

## COLLEGE OF ARTS AND SCIENCES

### ADMINISTRATION

G. Peter Lepage, dean—255-4146

Walter Cohen, senior associate dean—255-4147

Elizabeth Adkins-Regan, senior associate dean—255-4147

David DeVries, associate dean of undergraduate admissions and education—255-3386

Jane V. Pedersen, associate dean of administration—255-7507

Susan Robertson, director of communications—255-6386

Paul Sawyer, associate dean and director of writing programs—255-4061

### PROGRAM OF STUDY

#### Introduction

The College of Arts and Sciences is a community of about 4,100 undergraduates and 500 faculty members. It is also a graduate school and research center. Altogether it attracts faculty members whose research and scholarly and creative work require first-rate academic facilities and who bring to all their students the profound questioning and exciting ideas of current scholarship. Finally, the college exists within a university of other colleges at Cornell—about 19,500 undergraduate and graduate students and 1,600 faculty members. This wider community provides depth and diversity of applied and professional studies beyond what a college of the liberal arts and sciences alone can offer. Students studying the liberal arts and sciences may draw upon the knowledge and facilities of the other colleges at Cornell to complement their studies. Abundant variety and outstanding quality in many fields, including interdisciplinary fields, and emphasis on individual academic freedom and responsibility give the college and the university their distinctive character.

The richness of the college's undergraduate curriculum is extraordinary; there is no course that all students must take, and there are nearly 2,000 from which they may choose. By choosing courses each semester, students design their own education. They develop known interests and explore new subjects. An education in the liberal arts and sciences means honing one's critical and imaginative capacities, learning about oneself in nature and culture, and gaining experience with views of the world radically unlike one's own. All this is highly individual, and the college relies on each student and faculty advisor to design a sensible, challenging, and appropriate course of study.

Yet the college faculty believes that each student's education should have certain common qualities. These include familiarity with several different ways of knowing that are reflected in the various disciplines and fields of study. In addition to these general areas of knowledge, students acquire effective

writing and quantitative skills, study foreign languages, achieve cultural breadth, and concentrate on one particular field through which they deepen their imaginative and critical thinking as fully as possible. To accomplish these objectives, the college has certain requirements for graduation.

### The College of Arts and Sciences awards one undergraduate degree, the Bachelor of Arts degree.

#### Summary of Requirements

1. First-year writing seminars: two courses. (See "John S. Knight Institute for Writing in the Disciplines," p. 599.)
2. Foreign language: completion of one course at the nonintroductory level or above (Option 1) or at least 11 credits in one language (Option 2).
3. Distribution: nine courses (may overlap with courses counting toward a major).
4. Breadth: two courses (may overlap with courses for distribution, major, or electives).
5. Major (see individual department listings for major requirements).
6. Electives: four or five courses (at least 15 credits) not used to fulfill other requirements (other than the breadth requirements) and not in the major field.
7. Residence: eight full-time semesters, unless a student can successfully complete all other requirements in fewer than eight semesters and meet the additional criteria to accelerate graduation. (See "Acceleration" below.)
8. 34 courses: a 3- or 4-credit course counts as one course. A 2-credit course counts as half a course; a 1-credit course does not normally count toward the requirement; a 6-credit language course counts as one and one-half courses. (See "Courses and Credits" for some 1-credit courses in music, dance, and theatre performance that can be cumulated to count as one-half course.)
9. Credits: a total of 120 academic credits, of which 100 must be taken in the College of Arts and Sciences at Cornell. (See "Noncredit Courses" below for courses that do not count as academic credits or courses.)
10. Physical education: completion of the university requirement (passing a swim test and two 1-credit nonacademic courses). Note: Physical education credit does not count toward graduation or toward the 12-credit minimum required for good academic standing each semester.
11. Application to graduate. (See "Graduation," p. 457.)

Undergraduates are responsible for knowing and fulfilling the requirements for graduation and for alerting the college to any problems with their records. To check on their progress toward the degree, students are urged to consult their advising deans in 55 or 172

Goldwin Smith Hall and to check their DUST (Distributed Undergraduate Student Tracking) reports at <http://data.arts.cornell.edu/as-stus>. The DUST report is updated after each semester to reflect the student's progress in college requirements. To check on their progress in the major, students should consult their major advisors.

### Explanation of Requirements

#### Foreign Language Requirement

The faculty considers competence in a foreign language essential for an educated person. Studying a language other than one's own helps students understand the dynamics of language, our fundamental intellectual tool, and enables students to understand another culture. The sooner a student acquires competence, the sooner it will be useful. Hence, work toward the foreign language requirement should be undertaken in the first two years. Students postponing the language requirement for junior and senior years risk not being graduated in time. Courses in foreign languages and/or literature are taught in the College of Arts and Sciences by the following departments: Africana Studies and Research Center, Asian Studies, China and Asia-Pacific Studies, Classics, German Studies, Linguistics, Near Eastern Studies, Romance Studies, and Russian.

The language requirement may be satisfied in one of the following ways:

*Option 1:* Passing (a) a nonintroductory foreign language course of 3 or more credits at Cornell at the 2000 level or above or (b) any other nonintroductory course at the 2000 level or above conducted in a foreign language at Cornell. **OR**

*Option 2:* Passing at least 11 credits of study in a single foreign language (taken in the appropriate sequence) at Cornell.

Any exceptions to these rules will be noted elsewhere in individual department descriptions.

Students whose speaking, reading, and writing competence in a language other than English is at the same level we would expect our entering freshmen to have in English (as shown by completing high school in that language or by special examination during their first year here at Cornell) are exempt from the college's language requirement.

#### Placement

Entering students who have completed two or more years of high school study in a language, who have been awarded credit for language work at another college or university, or who are native speakers, bilingual, or have spoken the language at home, may enroll in a course in the same language only after being placed by examination. The placement exam may have been taken in high school (SAT II, taken after the last course, or AP, if the score was 4 or 5) or at Cornell (LP test). Being placed by examination into the first course at a nonintroductory level does not earn credit

<b>French</b>			
<b>Placement Tests</b>		<b>Language</b>	<b>Literature</b>
<b>LPF</b>	<b>SAT II</b>	<b>Courses</b>	<b>Courses</b>
below 37.....	below 410.....	1210	
37-44.....	410-480.....	1220	
45-55.....	490-590.....	1230	
56-64.....	600-680.....	2060 2090	
65 and above.....	690 and above.....		CASE required for placement in language.
AP 4 or 5 in language, 3 credits.....			CASE required for placement in language.
AP 4 or 5 in credits.....			CASE required for literature, 3 placement in language.
<b>German</b>			
<b>Placement Tests</b>		<b>Language</b>	<b>Literature</b>
<b>LPG</b>	<b>SAT II</b>	<b>Courses</b>	<b>Courses</b>
below 37.....	below 370.....	1210	
37-44.....	370-450.....	1220	
45-55.....	460-580.....	1230	
56-64.....	590-680.....	2000	
65 and above.....	690 and above.....		CASE required for placement
AP 4 or 5, 3 credits.....			CASE required for placement
<b>Italian</b>			
<b>Placement Tests</b>		<b>Language</b>	<b>Literature</b>
<b>LPI</b>	<b>SAT II</b>	<b>Courses</b>	<b>Courses</b>
below 37.....	below 370.....	1210	
37-44.....	370-450.....	1220	
45-55.....	460-580.....	1230	
56-64.....	590-680.....	2090	
65 and above.....	690 and above.....		CASE required for placement
AP 4 or 5 in language, 3 credits.....			CASE required for placement
AP 4 or 5 in literature, 3 credits.....			CASE required for placement
<b>Spanish</b>			
<b>Placement Tests</b>		<b>Language</b>	<b>Literature</b>
<b>LPS</b>	<b>SAT II</b>	<b>Courses</b>	<b>Courses</b>
below 37.....	below 370.....	1210	
37-44.....	370-450.....	1220	
45-55.....	460-580.....	1230	
56-64.....	590-680.....	2000 2090 2070	
65 and above.....	690 and above.....		CASE required for placement
AP 4 or 5 in language, 3 credits.....			CASE required for placement
AP 4 or 5 in literature, 3 credits.....			CASE required for placement

toward the degree. Degree credit is earned only for demonstrated mastery of work equivalent to the first course at an intermediate level at Cornell and placement into the second intermediate course. Students should seek to satisfy the language requirement in their first years at Cornell. Those with test scores one or more years old may be required to take a Cornell Advanced Standing Examination (CASE) if the instructor deems the student is insufficiently prepared for the level in which he or she has enrolled.

#### Placement Tests and Advanced Placement Credit

1. The following language placement and advanced standing tests are scheduled at the beginning of each semester:

- Chinese (Cantonese and Mandarin), Hindi, Japanese, and Korean (schedule available from Department of Asian Studies, 350 Rockefeller Hall);
- German (schedule available from Department of German Studies, 183 Goldwin Smith Hall);
- French, Italian, and Spanish (schedule available from Department of Romance Studies, 303 Morrill Hall) [These placement tests are also offered online during the summer.];
- Russian (schedule available from Department of Russian, 226 Morrill Hall).

The advanced standing examination in French, German, Italian, Russian, and Spanish, is called the CASE (Cornell Advanced Standing Examination). Eligibility for the CASE may be determined from the placement tables. In Russian only, all students seeking placement take the CASE.

Native speakers of Spanish who have completed their secondary education in a Spanish-speaking country do not take the CASE. For these students, the Spanish program offers a walk-in service, the Native Language Accreditation for Spanish, in the third week of September and the first week of February. Students interested in this service should contact Brisa Teutli in 414 Morrill Hall, bt54@cornell.edu. Speakers of Spanish who completed their secondary education in a non-Spanish-speaking country are required to present either SAT II or AP or LPS scores for placement, or for eligibility to take the CASE exam.

2. Arabic: departmental examination, Department of Near Eastern Studies, 409 White Hall.
3. Greek: departmental examination, Department of Classics, 120 Goldwin Smith Hall.
4. Hebrew: departmental examination, Department of Near Eastern Studies, 409 White Hall.
5. Latin: departmental examination, Department of Classics, 120 Goldwin Smith Hall.
6. Persian: departmental examination, Department of Near Eastern Studies, 409 White Hall.

7. Turkish: departmental examination, Department of Near Eastern Studies, 409 White Hall.

### Distribution Requirements

In satisfying the distribution requirements, students become acquainted with a broad range of subject matter and points of view among disciplines in the college and explore areas that may be entirely new to them. Or, to look at it the other way, as first-year students explore subjects that interest them, they begin to satisfy distribution requirements. Consequently, first-year students should take courses to prepare for possible majors and to explore subjects new to them and take no course only in order to satisfy a distribution requirement. Although students may complete distribution requirements over eight semesters, they can take advanced courses in subjects they (perhaps unexpectedly) find intriguing only if they have completed the introductory prerequisites. Consequently, students should not postpone satisfying distribution requirements until the last semesters. Once sure of a major, students should consider which distribution requirements are yet unfulfilled and how to fulfill them with courses that complement their overall program. Courses in the major may be applied to the distribution requirements (unless prohibited by one of the restrictions noted under restrictions on applying AP credit, transfer credit, and Cornell courses to distribution requirements).

Students must complete four courses in science and quantitative reasoning, identified below under the categories Physical and Biological Sciences (PBS) and Mathematics and Quantitative Reasoning (MQR). In addition, they must complete five courses of 3 or more credits each from four of the five categories of courses in the humanities and social sciences with no more than three in the same department. The five categories of courses fulfilling the distribution requirements in humanities and social sciences are: Cultural Analysis (CA-AS), Historical Analysis (HA-AS), Knowledge Cognition and Moral Reasoning (KCM-AS), Literature and the Arts (LA-AS), and Social and Behavioral Analysis (SBA-AS). How an individual course is categorized is indicated with the appropriate abbreviation in its description under its department.

**It is important to recognize that only courses with the proper designation in the Arts and Sciences section of the catalog can be used toward fulfilling the distribution requirements in Arts and Sciences. Some topics courses and courses offered through the Society for the Humanities, among others, do not count toward distribution.**

Students wishing to take an Arts and Sciences course that does not have a rubric assigned to it in this volume should consult their advising dean to ascertain the status of the course and see if it has, in fact, been assigned any distribution rubric after the publication of this volume. Students may not petition to change the rubric of any given course, nor may any faculty member change the rubric of a course for an individual student. Faculty members wishing to change the rubric for a course they teach must petition the Educational Policy Committee for a change in rubric, and that rubric must then be applied to the course for all students in the course.

#### • Cultural Analysis (CA-AS)

Courses in this area study human life in particular cultural contexts through interpretive analysis of individual behavior, discourse, and social practice. Topics include belief systems (science, medicine, religion), expressive arts and symbolic behavior (visual arts, performance, poetry, myth, narrative, ritual), identity (nationality, race, ethnicity, gender, sexuality), social groups and institutions (family, market, community), power and politics (states, colonialism, inequality).

#### • Historical Analysis (HA-AS)

Courses in this group interpret continuities and changes—political, social, economic, diplomatic, religious, intellectual, artistic, scientific—through time. The focus may be on groups of people, dominant or subordinate, a specific country or region, an event, a process, or a time period.

#### • Knowledge, Cognition, and Moral Reasoning (KCM-AS)

Offerings in this area investigate the bases of human knowledge in its broadest sense, ranging from cognitive faculties shared by humans and animals such as perception, to abstract reasoning, to the ability to form and justify moral judgments. Courses investigating the sources, structure, and limits of cognition may use the methodologies of science, cognitive psychology, linguistics, or philosophy. Courses focusing on moral reasoning explore ways of reflecting on ethical questions that concern the nature of justice, the good life, or human values in general.

#### • Literature and the Arts (LA-AS)

Offerings in this area explore literature and the arts in two different but related ways. Some courses focus on the critical study of artworks and on their history, aesthetics, and theory. These courses develop skills of reading, observing, and hearing and encourage reflection on such experiences; many investigate the interplay among individual achievement, artistic tradition, and historical context. Other courses are devoted to the production and performance of artworks (in creative writing, performing arts, and media such as film and video). These courses emphasize the interaction among technical mastery, cognitive knowledge, and creative imagination.

#### • Social and Behavioral Analysis (SBA-AS)

Courses in this area examine human life in its social context through the use of social scientific methods, often including hypothesis testing, scientific sampling techniques, and statistical analysis. Topics studied range from the thoughts, feelings, beliefs, and attitudes of individuals to interpersonal relations between individuals (e.g., in friendship, love, conflict) to larger social organizations (e.g., the family, society, religious or educational or civic institutions, the economy, government) to the relationships and conflicts among groups or individuals (e.g., discrimination, inequality, prejudice, stigmas, conflict resolution). Please note that CRP 1100 (The American City) and CRP 1101 (Global City) satisfy SBA but do not count as A&S credit.

#### • Physical and Biological Sciences (PBS)

*In fulfilling the four courses in science and quantitative reasoning, students must take at least two science courses. At least one of these must be from the primary list of courses in science departments in the College of Arts and Sciences:*

##### Primary list:

(The courses listed individually are all cross-listed in an A&S science department.)

##### Animal Science

4270 Fundamentals of Endocrinology

##### Anthropology

3710 Human Paleontology

##### Applied and Engineering Physics

2170 Physics II: Electricity and Magnetism  
3300 Modern Experimental Optics  
3630 Electronic Circuits  
4500 Introduction to Solid-State Physics  
4700 Biophysical Methods

##### Astronomy: all 3- or 4-credit courses

*Biological Sciences:* all 3- or 4-credit courses (including any combination of two courses from BIO 1101–1104) except BIOG 1115, 2990, 4980; BIOEE 3620; BIOBM 1320, 3990; BIOGD 1320; BIOMI 1720; BIONB 3210, 4200, 4230, 4350, and BIOSM 2040, 2250, 3620, 3710. BIOG 2000 and 4990 require permission from the Office of Undergraduate Biology.

##### Biological and Environmental Engineering

4710 Introduction to Groundwater

##### Biology and Society

2141 Biological Basis of Sex Differences  
4471 Seminar in the History of Biology  
4611 Environmental Policy  
4612 Environmental Policy

##### Chemistry and Chemical Biology

all 3- or 4-credit courses

##### Cognitive Science

1110 Brain, Mind, and Behavior  
3300 Introduction to Computational Neuroscience

##### Crop Sciences

3970 Environmental Microbiology  
4830 Land, Water, Agriculture, and Environment

##### Earth and Atmospheric Sciences

all 3- or 4-credit courses except 2500, 2900, 3750, 4350, 4940

##### Electrical and Computer Engineering

4870 Intro to Radar Remote Sensing

##### Engineering

1220 Earthquake!

##### Entomology

3250 Insect Behavior  
3690 Chemical Ecology  
4400 Phylogenetic Systems  
4530 Historical Biogeography  
4550 Insect Ecology

##### Feminist, Gender, & Sexuality Studies

2140 Biological Basis of Sex Differences

##### History

2870 Evolution  
4150 Seminar in the History of Biology

##### Horticulture

2430 Taxonomy of Cultivated Plants  
4730 Ecology of Agricultural Systems

*Music*

- 1466 (previously 2111) Physics of Musical Sound

*Natural Resources*

- 3030 Introduction to Biogeochemistry  
4560 Stream Ecology

*Nutritional Sciences*

- 4750 Mammalian Developmental Defects

*Physics*

- all 3- or 4-credit courses

*Plant Pathology*

- 4090 Principles of Virology

*Psychology*

- 1110 Brain, Mind, and Behavior  
3220 Hormones and Behavior  
3240 Biopsychology Laboratory  
3300 Introduction to Computational Neuroscience  
3320 Biopsychology of Learning and Memory  
3960 Introduction to Sensory Systems  
4240 Neuroethology  
4310 Effects of Aging on Sensory and Perception Systems  
4920 Sensory Function

*Science and Technology Studies*

- 2871 Evolution  
4471 Seminar in the History of Biology

Students may select additional science courses from the following **supplementary list**:

*Animal Science*

- 1100 Domestic Animal Biology I  
1150 Domestic Animal Biology II  
2120 Animal Nutrition

*Anthropology*

- 1300 Human Evolution: Genes, Behavior, and the Fossil Record  
3270 Environmental Archaeology  
3390 Primate Behavior and Ecology  
4263 Zooarchaeological Method  
4264 Zooarchaeological Interpretation

*Applied and Engineering Physics*

- 1100 Lasers and Photonics

*Archaeology*

- 3270 Environmental Archaeology  
4263 Zooarchaeological Method  
4264 Zooarchaeological Interpretation

*Dance*

- 3120 The Moving Body: Form and Function

*Electrical and Computer Engineering*

- 4300 Lasers and Optical Electronics

*Engineering (Intro course)*

- 1100 Lasers and Photonics

*Entomology*

- 2010 Alien Empire: Bizarre Biology of Bugs (3 cr.)  
2100 Plagues and People (3 cr.)  
2120 Insect Biology  
2770 Natural Enemies: An Intro to Biological Control (3 cr.)  
3150 Spider Biology

*Food*

- 2000 Intro to Physio & Bio Aspects of Food

*Materials Science and Engineering*

- 2810 The Substance of Civilization

*Natural Resources*

- 2010 Environmental Conservation  
2100 Introductory Field Biology  
3110 Fish Ecology, Conservation, and Management  
4200 Forest Ecology

*Nutritional Sciences*

- 1150 Nutrition and Health  
3610 Biology of Normal and Abnormal Behavior

*Plant Pathology*

- 2013 Magic Mushrooms, Molds, and More  
2015 Mushrooms, Molds, and Molecules

*Psychology*

- 2230 Introduction to Biopsychology  
3260 Evolution of Human Behavior  
3610 Biology of Normal and Abnormal Behavior

• **Mathematics and quantitative reasoning (MQR)**

In completing four courses in science and quantitative reasoning, students must take at least one of the following courses (note that EDUC 1150 Introductory College Mathematics counts neither toward the college degree nor toward distribution):

*Applied Economics and Management*

- 2100 Introductory Statistics

*Biometry*

- 3010 Biological Statistics I

*City and Regional Planning*

- 3210 Introduction to Quantitative Methods  
3280 Quantitative Methods in Policy Planning

*Cognitive Science*

- 1720 Computation, Information, and Intelligence  
4240 Computational Linguistics

*Computer Science*

- 1110, 1112, 1113, 1114 Introduction to Computing  
1700 Computation, Information, and Intelligence  
2110 Object-Oriented Programming and Data Structures  
2800 Discrete Structures  
3110 Data Structures and Functional Programming  
3740 Computational Linguistics  
4210 Numerical Analysis and Differential Equations  
4220 Numerical Analysis: Linear and Nonlinear Equations  
4860 Applied Logic

*Earth and Atmospheric Sciences*

- 4350 Statistical Methods in Meteorology and Climatology

*Ecology and Evolutionary Biology*

- 3620 Dynamic Models in Biology

*Economics*

- 3190 Introduction to Statistics and Probability  
3200 Introduction to Econometrics  
3210 Applied Econometrics  
3270 Time Series Econometrics  
3680 Game Theory  
4760/4770 Decision Theory I and II

*Engineering*

- 1101 Engineering Applications of ORIE  
1700 Computation, Information, and Intelligence  
2110 Object-Oriented Programming and Data Structures

*Industrial and Labor Relations*

- 2100 Introduction to Statistics  
2120 Statistical Reasoning

*Information Science*

- 1700 Computation, Information, and Intelligence

*Linguistics*

- 4424 Computational Linguistics  
4485 Topics in Computational Linguistics

*Mathematics*

- all 3- or 4-credit courses except 1000 and 1009

*Philosophy*

- 2310 Introduction to Deductive Logic  
3300 Foundations of Mathematics  
3310 Deductive Logic  
4310 Mathematical Logic  
4311 Topics in Logic

*Policy Analysis and Management*

- 2100 Introduction to Statistics

*Psychology*

- 3500 Statistics and Research Design

*Sociology*

- 3010 Evaluating Statistical Evidence

*Statistical Science*

- 2100 Introduction to Statistics

If students choose two courses from this list to satisfy part of the distribution requirement, those two courses may not have significant overlap. For example, students may not choose two beginning courses in statistics. Nor may they earn credit toward the degree for overlapping courses: AEM 2100 Introductory Statistics, ILRST 2100 Introduction to Statistics, ILRST 2120 Statistical Reasoning, MATH 1710 Statistical Theory and Application in the Real World, PAM 2100 Introduction to Statistics, PSYCH 3500 Statistics Research and Design, SOC 3010 Evaluating Statistical Evidence, STSCI 2100 Introduction to Statistics.

**Breadth Requirements**

Students must include in their undergraduate program at least one Arts and Sciences course that focuses on an area or a people other than those of the United States, Canada, or Europe and one course that focuses on an historical period before the 20th century. Courses that satisfy the geographic breadth requirement are marked with an @ when described in this catalog. Courses that satisfy the historical breadth requirement are marked with a #. Many courses satisfy both requirements, and students may in fact use the same course to satisfy both. Students may use courses satisfying distribution, major, or elective—but not writing—requirements in satisfaction of either of the breadth requirements. They may also apply Cornell courses (not credit from an examination) conferring proficiency in a non-Western language toward the geographical breadth requirement.

**Restrictions on Applying AP Courses and Credit from Other Institutions to the Distribution Requirements**

Students may not apply AP credit or transfer credit from another institution to the breadth requirements or to any distribution requirement.

**Students who transfer to the college from another institution** are under the above rules for advanced placement credit, but are eligible to have credit for post-high school course work taken during regular semesters (not summer school) at their previous institution count toward all distribution requirements. Transfer students receive a detailed credit evaluation when they are accepted for admission.

## Restrictions on Applying Cornell Courses to the Distribution and Breadth Requirements

1. First-year writing seminars may not count toward any other college requirement.
2. No single course may satisfy more than one distribution requirement.
3. Students may count courses in their major toward distribution and breadth.
4. Only courses with the proper designation in the Arts and Sciences section of the catalog can be used toward fulfilling the distribution requirements in Arts and Sciences.
5. A student may not petition for alteration of a particular course's distribution rubric, nor may a faculty member change a course rubric for an individual student. The rubric for a course may be changed only if the Educational Policy Committee grants a petition by the course's instructor to change the rubric. If the rubric changes, it does so for the class as a whole and never for an individual student.

## The Major

In their last two years, students devote roughly one-half of their time to acquiring depth and competence in a major subject. The major does not necessarily define a student's intellect or character or lead directly to a lifetime occupation, although it sometimes does some of each. Through the major, students focus and develop their imaginative and intellectual capacities through a subject they find especially interesting.

Most departments and programs specify certain prerequisites for admission to the major; they are found on the following pages in the descriptions of each department and program.

Students may apply for acceptance into the major as soon as they have completed the prerequisites and are confident of their choice. This may be as early as the second semester of freshman year, and must be no later than second semester of sophomore year. To apply, they take a copy of their official transcript to an appointment with the director of undergraduate studies in their prospective major. A department or program may refuse admission into the major if the applicant's performance does not meet established standards. A student without a major at the beginning of the junior year is not making satisfactory progress toward the degree and risks not being allowed to continue in the college. That student must meet with an advising dean and may be placed on a leave of absence as early as the first semester of the junior year if he or she has not declared a major.

### Available majors

Majors are offered by each of the departments. There are also majors in American Studies, Archaeology, Biology and Society, China and Asia-Pacific Studies, Information Science, Religious Studies, Science of Earth Systems, and Feminist, Gender, and Sexuality Studies.

Some students want to pursue a subject that cannot be met within an established major.

They may plan, with the help of their faculty advisor, an independent major that includes courses from several departments and even colleges. See "Independent Major and College Scholar Program," under "Special Academic Options." Whatever the major—chemistry, math, philosophy, or music—graduates from the College of Arts and Sciences earn the one degree the college awards, a Bachelor of Arts.

### Double majors

Only one major is required for graduation. Some students choose to complete two or more majors. No special permission or procedure is required; students simply become accepted into multiple majors and find an advisor in each department. All completed majors are posted on the official transcript. However, even though courses in a second major count among the required 15 credits of electives (see immediately below), double majoring can constrict the variety of electives that might be valuable for an education in the liberal arts and sciences. Students should "double major" only if their intellects and deep interests direct them to do so. If a student majoring in more than one subject decides s/he does not wish to complete the second major, s/he must go to the department and formally withdraw from that major.

### Minors

Students may pursue minors in any department in any college that offers them, subject to limitations placed by the department offering the minor or by the students' major. Completed minors will appear on the student's transcript. Not all departments offer minors. Consult the appropriate department or program listing in this *Courses of Study* or contact the appropriate department for information on minors offered and how to pursue a minor.

### Electives

Of the 34 courses and 120 credits required for graduation, almost one-third are free electives. How students use these electives frequently makes the difference between an ordinary and a truly interesting course of study. Students must complete at least four courses and at least 15 credits offered outside the major field and not used to fill another requirement except breadth. AP credits not otherwise used may fulfill elective requirements. Students may group electives to complete one of the established interdisciplinary minors. Students may also group electives into a second major. Since only one major is required, students may count courses in a second major as electives. Some students choose to explore a variety of subjects; some develop a concentration in a department or subject outside Arts and Sciences to gain applied training or specialized knowledge.

### Residence

The College of Arts and Sciences is a residential community for students who devote their energy and spirit to full-time study. The faculty believes that integrated, full-time study for a defined period best promotes intellectual and creative development and best prepares people for citizenship and careers.

Consequently, eight semesters of full-time study in the College of Arts and Sciences are integral to earning the B.A. degree. Even if the

minimum requirements can be met in fewer semesters, the faculty of the college expects students to take advantage of the resources of the university for eight full semesters and obtain as rich and advanced an education in the liberal arts and sciences as possible. Students may complete their undergraduate degrees with credits earned at other institutions or as part-time or summer students at Cornell only if they have completed their eight full-time semesters of residence or satisfied the criteria listed below under "Part-time study in final semester."

For transfer students from other institutions, each full semester of study at their previous institution counts as one of the eight semesters of residence. However, even if transfer students have completed more than four full semesters at their previous institution, they must spend a minimum of four semesters on the Cornell campus in Ithaca enrolled in the College of Arts and Sciences. Internal transfers from other colleges at Cornell must spend four semesters on campus in Ithaca as students in the Internal Transfer Division or in the college. Only if a transfer student spends at least four semesters in the College of Arts and Sciences can he or she accelerate (see "Acceleration," below).

Approved study abroad, SEA Semester, Urban Semester, FALCON, and Cornell in Washington are considered semesters of residence but not semesters on the Cornell campus. Students may spend no more than two semesters on such programs and must be on campus during their last semester. Dual-degree students spending 10 semesters at Cornell who feel they need three semesters abroad may petition the Academic Records Committee for permission but must demonstrate the academic necessity of the extended time away. Semesters of extramural study in Cornell's School of Continuing Education, semesters of study at other institutions, and summer sessions anywhere do not count as semesters of residence.

### Acceleration

The faculty of the college desires that each student achieve depth, as well as breadth, from his or her undergraduate education. Indeed, benefiting from opportunities for advanced, seminar, and independent (sometimes honors) work is what best characterizes undergraduate education in the college. When a student feels he or she does not need eight semesters in order to achieve this depth, the student can apply to be able to accelerate by a term (and in rare cases, two terms), compressing the first four semesters into three (or two), and completing the prerequisites for the major in time to spend four full semesters in the major.

A student desiring to accelerate should meet with an advising dean in the first month of the desired penultimate semester so that he or she may have time to submit the online application to graduate by the deadline. The advising dean will determine the student's eligibility to accelerate. Accelerants must fulfill the following requirements:

1. All graduation requirements except for the residency requirement (120 total credits, 100 Arts and Sciences credits, 34 courses, all college requirements, and the university's physical education requirement).

2. Either condition *a* or *b*:
  - a. 60 credits before beginning their last four semesters in the college and the prerequisites for admission to the major in time to spend *four* semesters in the major.
  - b. 48 credits in College of Arts and Sciences courses numbered 3000 and above and prerequisites for admission to the major in time to spend *four* semesters in the major. No more than three upper-level courses taken in other colleges at Cornell University may count toward the 48 credits and then only if approved as part of the major.
3. 100 credits at Cornell at "C" (not C-) or above. Courses completed with a grade of "S" will count toward the 100 credits. Advanced placement and transfer credits do not count toward this requirement.
4. Students may not use credits earned while on leave of absence to reduce their terms of residence. In other words, they must be eligible to accelerate without applying any credit toward the degree that they earned while on leave.
5. Accelerators may not finish the degree with credits earned through part-time study (unless they meet the guidelines for part-time study), or at an off-campus program, including Cornell in Washington, SEA Semester, Urban Semester, or study abroad. That is, they may not exit through any program other than a regular, full-time Cornell semester in Ithaca.

Students matriculating as first-year students may not compress their undergraduate education into fewer than six semesters of residence. Transfer students, both from other institutions and from other colleges at Cornell, must spend at least four semesters in the college on campus in Ithaca. Acceleration is thus limited to transfer students who enter as sophomores. If a student does not meet the requirements for acceleration, that student may not petition for an exception. Acceleration is, in itself, an exception to the normal rules of the college, and the Academic Records Committee does not grant exceptions to exceptions.

#### Ninth semester

Students who can graduate in eight semesters should do so. If a worthy academic plan for a full ninth or tenth semester is approved, the student enrolls in the college as a special student for the additional work. Such a status allows enrollment in a full schedule of courses and full access to campus resources for full tuition, but allows financial aid only from loans or outside agencies, not from Cornell funds. Students who need fewer than 12 credits in a ninth or tenth semester to graduate should complete the outstanding courses and pay prorated tuition. Students may spend a ninth semester with Cornell aid only with permission of the Committee on Academic Records. Such permission is normally granted only to the following:

1. Students who have been ill or experienced other untoward circumstances beyond their control.
2. Students who were academically underprepared for the curriculum at Cornell and needed to begin with a lighter

schedule of courses than normal. (See Dean Turner, Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall, about this option.)

#### Extramural study

Students in good academic standing may take a personal leave of absence and enroll in the School of Continuing Education, but such semesters of extramural study do not count as terms of residence and credits from such semesters may not be used to reduce the terms of residence.

#### Part-time study in special circumstances

The college and university support students (with financial aid and services) as best they can to make full-time study possible. Occasionally, however, extraordinary but nonfinancial personal, academic, or medical circumstances make studying part-time temporarily necessary and appropriate. Students in good academic standing who face extraordinary situations may petition the Committee on Academic Records for a part-time schedule and proration of tuition in the college.

#### Prorated tuition in the final semester

Students may complete their degrees by taking fewer than 12 credits and pay prorated tuition at Cornell after fewer than eight semesters of full-time residence only if:

1. They have completed all requirements by the end of the sixth or seventh semester, met the criteria for accelerated graduation, and are remaining to complete study beyond what is required for the degree.
2. They are writing an honors thesis in the eighth semester and can complete all degree requirements by taking exactly two courses, one of which is the thesis itself. They must register for the thesis and one additional course.

A student must see an advising dean to confirm his or her eligibility for prorated tuition and receive a petition to be approved by his or her faculty advisor. The student must specify the number of credits to be taken in the final term, and the faculty advisor must be able to certify that those credits will allow the student to complete his or her graduation requirements. Once the student has submitted the petition to the advising dean for college approval, he or she must see college registrar Sally O'Hanlon in 55 Goldwin Smith Hall to complete the prorated tuition form necessary for the Office of the Bursar. Both the petition form and prorated tuition form must be completed and approved during the first two weeks of the final semester.

#### Courses and Credits

Students must complete at least 34 full courses (which may include courses students place out of with AP credit), to be graduated—that is, an average of four full courses during each of six semesters and five courses during each of two semesters. Not all courses are full courses. Course equivalencies are as follows:

#### Counting courses:

- 1-credit courses: Certain 1-credit courses in Music, and in Theatre, Film, and Dance, may aggregate so that each two can count as a half course, and four can count as a full course. Otherwise, single-credit courses do not count as part of the 34.
- 2-credit course = one-half course

3- or 4-credit course = one full course

5-credit BIOGD 2810 (Genetics) = one and one-half course

Other 5-credit courses = one full course each

6-credit language course = one and one-half course

Other 6-credit courses = one full course each

8-credit FALCON courses = 2 full courses each

16-credit FALCON semester = 4 full courses

16-credit Intensive Arabic semester = 4 full courses

**Counting credits:** Students must complete 120 credits (which may include AP credits). Of the 120, 100 must be from courses taken in the College of Arts and Sciences at Cornell.

*Courses that do not count toward the 120 credits required for the degree or toward good standing:* The College of Arts and Sciences does not grant credit toward the degree for every course offered by the university. Courses in military training, training as an emergency medical technician, service as a teaching assistant, physical education, remedial or developmental training, precalculus mathematics (including EDUC 115), supplemental science and mathematics offered by the Learning Strategies Center, English as a second language, keyboarding, and shorthand are among those for which degree credit and credit toward the 12 credits required each semester for good academic standing are not given. Students should consult [www.arts.cornell.edu/stu-adv/coursesdontcount.php](http://www.arts.cornell.edu/stu-adv/coursesdontcount.php) for more information and a list of courses.

Other cases in which a course may not receive credit or count toward good standing include the following:

- A course identified as a prerequisite for a subsequent course may not be taken for credit once a student completes that subsequent course.
- A repeated course. (For more information, see "Repeating courses," below).
- A course with material that significantly overlaps with material in a course a student has already taken, for example, SOC 1101 Introduction to Sociology, and DSOC 1101 Introduction to Sociology; or any of the following statistics courses: AEM 2100 Introductory Statistics, ILRST 2100 Introduction to Statistics, ILRST 2120 Statistical Reasoning, MATH 1710 Statistical Theory and Application in the Real World, PAM 2100 Introduction to Statistics, PSYCH 3500 Statistics Research and Design, SOC 3010 Evaluating Statistical Evidence, STSCI 2010 Introduction to Statistics.

*Courses that count toward the 100 required Arts and Sciences credits* may include liberal arts courses approved for study abroad during a semester or academic year of full-time study (not summer study), courses taken in certain off-campus Cornell residential programs, courses (usually no more than three) that certain departments accept from other colleges at Cornell as fulfilling major requirements (and substituting for A&S courses), and courses (up to two) that an advisor accepts as part of a completed and formally established cross-college, interdisciplinary minor.

*Courses that do not count toward the 100 required Arts and Sciences credits* include

credits earned in other colleges at Cornell (except in the cases noted above), credits earned in any subject at institutions other than Cornell, and advanced placement credits. AP credits count as part of the 120 credits and 34 courses required for the degree but not as part of the 100 Arts and Sciences credits and may not be applied to distribution or breadth. AP credits are posted on the transcript during the summer between the freshman and sophomore years, after students have decided whether to accept the credit or forfeit it by taking the Cornell course out of which they had placed. If, subsequently, a student takes the course out of which s/he had placed, the AP credit will be removed because of the overlap in content (For more information on AP credits, please see pages 445–447).

### Repeating courses

Students occasionally need to repeat courses. If the instructor certifies that the course content is significantly different, credit is granted a second time. If the content is the same, both grades nonetheless appear on the transcript and are included in any GPA that is calculated, but the course and credit count toward the degree only once. Repeated courses do not count toward the 12 credits required for good standing. Students considering repeating a course under this circumstance should discuss the matter with their advisor and an advising dean. Students who plan to repeat a course must submit a petition to the college registrar, Sally O'Hanlon, 55 Goldwin Smith Hall. If the original course grade was F, no petition is necessary.

### Using courses to fulfill more than one requirement:

A course may fulfill more than one college requirement in any of the following situations:

1. A course may be used to fulfill distribution, breadth, and a major requirement (except as noted in earlier sections on restrictions on applying AP credits, transfer credits, and Cornell courses to distribution requirements).
2. A one-semester course in foreign literature (not language) or culture that is acceptable for certifying option 1 in that language may also be applied to the relevant distribution requirement and, if appropriate, to the breadth requirement.
3. Courses may count toward breadth requirements and toward any other requirement except first-year writing seminars.
4. Courses in a second major may count as electives.

### Summer session credit

A student may earn credit toward the degree by completing courses in Cornell's summer session or by successfully petitioning for transfer credit for summer courses at other colleges. Students should consult their advisors regarding summer study plans.

Credit for summer courses not taken at Cornell must be approved by the appropriate Cornell department. Approval forms and information are available online, [www.arts.cornell.edu](http://www.arts.cornell.edu), and in the Office of Undergraduate Admissions and Advising, 55 or 172 Goldwin Smith Hall. Students are advised to submit course descriptions, syllabi, and approval forms to the director of

undergraduate studies in the relevant Cornell department for prior approval of each course. Transcripts for completed work at other institutions must be sent to Robin Perry, 172 Goldwin Smith Hall. Credit approved for summer courses away from Cornell (including summer courses abroad) counts toward the 120 credits and 34 courses required for the degree, but not toward the 100 credits required in the college at Cornell. It may not be applied to distribution or breadth requirements but may be applied to elective requirements and to major requirements (with the approval of the department).

Entering students who want to receive credit toward the degree for courses completed before matriculation in a summer session away from Cornell should obtain approval forms as soon as possible and have transcripts sent to Robin Perry, 172 Goldwin Smith Hall. Credits completed in Cornell summer sessions will be awarded automatically.

Summer session at Cornell or elsewhere does not count toward the eight-semester residence requirement. Students are permitted to earn up to 12 credits in one summer.

### Transferring credit earned away from Cornell while on leave of absence

See "Leaves of Absence."

### Transferring credit (for transfer students from another institution or from another Cornell college)

Transfer students must satisfy all normal requirements for the degree, including eight semesters of full-time study. They must always complete at least 60 credits and 18 courses at Cornell and be in residence on campus in the college for at least four regular semesters (summer session does not count toward the residence requirement). The college evaluates credit and residence earned either at another school or college at Cornell University or at another accredited institution of collegiate rank and determines the number of credits and courses the student may apply toward the various requirements for the bachelor of arts degree at Cornell. In addition, it reevaluates advanced placement credit allowed by another institution, including another college at Cornell. Evaluations of transfer credits are normally provided when students are notified of their admission. Once matriculated in Arts and Sciences at Cornell, transfer students must adhere to the same rules for transferring credit earned on leave as all other students.

## SPECIAL ACADEMIC OPTIONS

### Degree Programs

The following four programs allow students to alter the regular college or major requirements or to work toward more than one degree.

#### College Scholar Program

The College Scholar Program is meant to serve students whose interests and talents would benefit from a little more academic freedom than other students have, who demonstrate exceptional promise, and who show the maturity to plan and carry out, with the help of their advisor, a well-designed program of study. College Scholars design idiosyncratic programs: some pursue diverse interests; others integrate a variety of courses

into a coherent subject. Up to 40 students in each class are accepted into the program.

College Scholars must complete 120 credits of course work (100 in the college), 34 courses, the university's physical education requirement, and, unless they receive permission from the program to accelerate, eight full terms of undergraduate study but are not required to fulfill the other usual college requirements for the degree. All college scholars must complete a senior project. Although they are not required to complete or fulfill the general education requirements, members of the College Scholar Advisory Board believe that the spirit of those requirements is good.

Each applicant to the College Scholar Program is asked to write an essay, which is due the last Wednesday of classes in the spring of the freshman year. Students should contact Dean Ken Gabard, Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall, for further information.

### Dual-Degree Program with Other Colleges

The Dual-Degree Program enables especially ambitious undergraduate students to pursue programs of study in two colleges. Dual-degree candidates may earn both a Bachelor of Arts degree from the College of Arts and Sciences and: (1) a bachelor of science degree from the College of Engineering; or (2) a bachelor of fine arts degree from the Department of Art in the College of Architecture, Art, and Planning; or (3) a bachelor of science degree in urban and regional studies from the Department of City and Regional Planning in the College of Architecture, Art, and Planning; or (4) a bachelor of science degree in architectural history from the Department of Architecture in the College of Architecture, Art, and Planning. Students enter one of these colleges as freshmen or sophomores and begin the Dual-Degree Program with the second college in the second or, in some cases, the third year. The Dual-Degree Program ordinarily takes five years to complete, and students are eligible for 10 semesters with financial aid. For further information contact Dean Tammy Shapiro in the Office of Undergraduate Admissions and Advising, 172 Goldwin Smith Hall.

### Independent Major Program

The Independent Major Program allows students to design their own interdisciplinary majors and pursue a subject that cannot be found in an established major. Proposals for an independent major must be equivalent in coherence, breadth, and depth to a departmental major, well suited to the student's academic preparation, and consistent with a liberal education. Proposals must also be supported by a faculty advisor and are assessed by a board of faculty members. Independent majors substitute for established majors, but students must still satisfy all the other requirements for the bachelor's degree. Students should contact Dean James Finlay, Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall, for further information. Deadlines for submitting independent major proposals are listed on the calendar supplement for the College of Arts and Sciences.

### Double Registration with and Early Admission to Professional Schools

Registration in the senior year of the College of Arts and Sciences and the first year of Cornell Law School or the Johnson Graduate School of Management is occasionally possible. A very few exceptionally well-prepared students who have earned 105 credits before the start of the senior year and have been accepted by one of the above-named professional schools may be permitted to register simultaneously in the college and in one or another of these professional schools during the seventh and eighth terms. They earn the B.A. degree after the first year of professional school.

Students with 8 or fewer credits and two or fewer courses to complete may apply to enter the Master's of Engineering program during (but no earlier than) their eighth semester; dual-degree students may enter this program no earlier than the ninth semester. They earn the bachelor degree(s) after one semester of graduate school.

Students interested in the joint program with the Law School, the Cornell Institute for Public Affairs (CIPA), or the Graduate School of Management, or in early admission to the master's of engineering program should apply to the relevant program. All candidates should confirm their eligibility with an advising dean, Office of Undergraduate Admissions and Advising, 172 Goldwin Smith Hall.

Double-registered students must, of course, complete all requirements for the B.A. degree, including 100 credits in Arts and Sciences courses.

### Teacher Education

Students at Cornell may pursue teaching credentials in agriculture, biology, chemistry, earth science, general science, mathematics, and physics. Cornell students from any college are encouraged to apply for admission to the Cornell Teacher Education Program during their sophomore or junior year. Those who are admitted complete their undergraduate major in an agricultural science, mathematics or science and a minor (concentration) in education. They are then able to complete a master of arts in teaching (MAT) in one year and earn certification in New York State. Students in agricultural science may be able to complete all certification requirements as undergraduates, although this option is not recommended.

For more information, contact the program director, Deborah Trumbull, at 255-3108 or [djt2@cornell.edu](mailto:djt2@cornell.edu).

### Special-Interest Options

The following options enable students to pursue special interests within the usual degree programs.

#### Independent Study

Independent study affords students the opportunity to pursue special interests or research not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the independent course, must approve the proposed study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study (proposal forms are available in the Office of Undergraduate Admissions and Advising, 55 and 172 Goldwin

Smith Hall). In one semester students may earn up to 6 credits with one instructor or up to 8 credits with more than one instructor. Students who are being paid for assisting faculty in research *cannot* earn course credit for that work.

#### Undergraduate Research

An excellent way to benefit from being an undergraduate at a research university, at Cornell in particular, is to become an apprentice in ongoing faculty research. About 400 students participate each year in creating new knowledge and earn independent study credit for what they learn and contribute. They sharpen their critical and creative abilities and test their interest in pursuing a research career. Sometimes they publish their work.

The Cornell Undergraduate Research Board, an undergraduate organization, conducts an annual open house to help students get started in research and an annual forum at which undergraduates present their work. See [www.rso.cornell.edu/curb](http://www.rso.cornell.edu/curb).

Students interested in research should consult the Director of Undergraduate Studies in the department of interest to find out about available opportunities. For more general information on the process of research or on petitioning for independent study credit for research, students should consult Dean James Finlay, Dean Maria Davidis [on leave 2009-2010], or Dean David DeVries, in the Office of Undergraduate Admissions and Advising, or consult [www.research.cornell.edu/undergrad](http://www.research.cornell.edu/undergrad).

#### Language Study

**FALCON (Full-Year Asian Language Concentration).** FALCON allows students who are interested in the Far East to study Chinese or Japanese exclusively for one year. They gain proficiency in the language and familiarity with the culture. Students who are interested in the Far East should be aware of the opportunities to pursue rapid and thorough beginning studies on campus with the objective of studying abroad in China or Japan. Students interested in this program should contact the Department of Asian Studies, 388 Rockefeller Hall; e-mail: [falcon@cornell.edu](mailto:falcon@cornell.edu).

#### Prelaw Study

Law schools seek students with sound training in the liberal arts and sciences; they neither require nor prefer any particular program of study. Students should therefore study what they love and do well. While doing that, they should also develop their powers of precise, analytical thinking and proficiency in writing and speaking. Students in the College of Arts and Sciences who are applying to law school may consult Dean Heather Struck in the Office of Undergraduate Admissions and Advising, 172 Goldwin Smith Hall.

The college offers a minor in law and society. This program offers a broad scope, complements almost any major, and attracts many students not intending to become lawyers as well as a subset of those intending to.

#### Premedical Study

The breadth and depth afforded by a liberal arts education are invaluable for students planning medical careers, whether they intend to practice or go into research. Such education has a profound effect on the doctor's

understanding of the world and hence usefulness to patients, and it affords the flexibility of mind that is needed for major research undertakings. Medical and dental schools do not prescribe or even prefer a particular major; they do, however, require particular undergraduate courses, and most students are well advised to begin chemistry in their freshman year. Students who are interested in medical careers are urged to visit the Health Careers Office, 203 Barnes Hall.

The advisor for students in the College of Arts and Sciences who are planning careers in medicine is Dean Janice Turner, Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall.

### Off-Campus Programs

Many students find it important to their majors or to their overall academic programs to study off campus or abroad for one or two semesters. When it makes academic sense, the college encourages its students to pursue such studies and grants credit toward the degree for work satisfactorily completed. Students wishing to participate in any off-campus program must petition their advising dean with a list of courses they wish to take during the program and a well-reasoned explanation of why the proposed semester is crucial for their course of study.

### Study Abroad

The College of Arts and Sciences encourages study, both on campus and abroad, that provides a greater understanding of the world's peoples, cultures, economies, and environments, and prepares graduates for the challenges of international citizenship in the 21st century. Study abroad is open to students in any major who meet the college requirements and have a strong academic goal. Well-chosen and well-planned study abroad contributes a global or comparative dimension to your chosen field, enhances critical thinking and communications skills, and provides firsthand immersion in and appreciation of another culture. Focused academic work in the right institution abroad can be excellent preparation for advanced study or honors work in your final semesters at Cornell, and can lead to a career with a global component.

### Requirements

- acceptance into a major
- area studies course work
- fulfillment of the College of Arts and Sciences residence requirement
- GPA of 3.0 or higher and good academic standing
- language study at the required level
- meet requirements set by the foreign university or program

Cornell Study Abroad students must study alongside degree candidates in their host institutions rather than in self-contained programs that offer courses specially designed for foreigners. The college will approve only those study-abroad proposals that demonstrate realistic and coherent academic goals that are consistent with the philosophy of a liberal arts education.

The college advocates study abroad that enables students to become competent in another language, so that they can engage

fully in daily life in another culture, develop social relationships, and complete formal course work in that language. To study abroad in a country where the host language is not English, the student must demonstrate competence in the language as a prerequisite.

For study abroad in Western Europe and Latin America, students must complete at least **two semesters of the appropriate foreign language at the 2000 level** at Cornell; additional course work is strongly encouraged and will increase students' chances for acceptance into the most highly competitive programs. Consult this catalog for the required level of course work in specific languages. For study abroad in Asia, Eastern Europe, the Middle East, and parts of Africa, course work entirely in the host language is not always practical, even after several semesters of language preparation at Cornell. Students should still plan to complete as much language preparation as possible within the Cornell curriculum, at least one to two years of study, and may be approved for language-intensive programs (at least half of the permitted 15 credits) with appropriate course work in English. If Cornell does not offer instruction in the language of the proposed host country, the student may be approved for a program that combines intensive language instruction with subject course work in English. All students must continue to formally study the language of the host country while abroad.

For study abroad in English-speaking countries, direct university enrollment is approved and expected. Cornell students will engage in a full course of study, generally in their major field, alongside regular degree candidates in the host country. In general, the college requires that at least 50 percent of the classes the student enrolls in be advanced-level course work in their major field.

Students will need to acquire background knowledge of the country or region where they intend to study. At least one area-studies course or one course in the history, culture, economics, politics, or social relations of the country of destination (3 or more credits) **in addition to language study** should be part of every student's preparation for study abroad. Some especially competitive programs require substantial prior course work in the proposed course of study as a prerequisite to acceptance. Students who intend to enhance their major with study abroad may need advanced course work in that field. As with language study, area-studies preparation beyond the minimum is highly recommended.

All A&S students must be formally accepted into a major before going abroad, and should ideally be accepted into a major before beginning the application process. Most students plan a significant amount of academic work toward the major while abroad. Whether or not students intend to earn major credit, the college requires that time spent abroad will not impede their progress toward the degree. The student's faculty advisor and departmental director of undergraduate studies must review and approve the study-abroad plans before the application is submitted to the college.

Study abroad can earn up to 15 A&S credits per semester of full-time course work as long as the curriculum abroad is consistent with that of the college. Completion of one trimester of study earns a maximum of 10

credits. Two terms at Oxford or Cambridge may earn up to 20 credits. You must carry a full course load as defined by the host institution, which should be equivalent to at least 15 credits at Cornell, and all courses must be taken for a letter grade. Courses that fall outside the scope of the liberal arts and sciences may only be taken with the **prior approval** of Dean Wasyliw, and will earn non-A&S credits. Some foreign universities offer courses for visiting students that do not carry any academic credit. Students may **not** earn additional credit for enrolling in extra courses during the semester or year abroad.

Credit for study abroad will be awarded only after completion of the semester abroad, and after the college receives your official transcript. To receive credit, students must fill out a **Request for Credit from Study Abroad** form and submit it to the advising office along with a copy of their transcript. All courses taken abroad will appear on the Cornell transcript and grades earned are reported in the system of the host institution. Grades earned through course work abroad do not become part of the Cornell GPA, since grades at other institutions are rarely equivalent to grades at Cornell. **Students must save all written work from all courses until their grades are received and recorded on their Cornell transcript.**

The maximum length of study abroad that can count toward A&S degree requirements is two semesters, which is also the amount of time recommended for true immersion in another culture and language. Approved semesters away from campus include Cornell in Washington, Urban Semester, and SEA Semester as well as all Cornell Abroad destinations. Students who transfer to Cornell must complete a minimum of four semesters of residence on campus in Ithaca and may not study abroad during any of those four semesters. Internal transfers must complete four semesters of residence on campus in the Internal Transfer Division and/or the College of Arts and Sciences. Students interested in the Cornell in Rome Program should contact Dean Wasyliw.

**All applicants for study abroad during the academic year must go through the Cornell Abroad office after being approved by the College of Arts and Sciences. For more information, see Dean Patricia Wasyliw, 55 Goldwin Smith Hall. The full A&S study-abroad policy can be found on the Cornell Abroad web site.**

#### Summer Residential Programs in Archaeology

During the summer months students may participate in a Cornell-sponsored archaeological project. In recent years the program has organized archaeological projects in Central America, Greece, Israel, Italy, Turkey, and New York State. Students should contact the Archaeology Program for information about the sites currently available. Students planning on attending field schools organized by other institutions should contact Professor Thomas Volman, 201 McGraw Hall, or [tpv1@cornell.edu](mailto:tpv1@cornell.edu).

#### Marine Science

Shoals Marine Laboratory is a seasonal field station that offers more than 30 college courses that award Cornell credit and paid internships, a variety of courses and experiences designed to introduce

undergraduates to marine science. The laboratory is located on Appledore Island, six miles off the Maine/New Hampshire coasts. Students should contact the Shoals Marine Laboratory Office, G14 Stimson Hall, or e-mail [shoals-lab@cornell.edu](mailto:shoals-lab@cornell.edu), for further information.

#### Cornell in Washington

The Cornell in Washington program offers students from all colleges in the university an opportunity to earn full academic credit for a semester in Washington, D.C. Students take courses from Cornell faculty members, conduct individual research projects, and work as externs. The Cornell in Washington program offers two study options: (1) studies in public policy, and (2) studies in the American experience. The program also offers unique externship opportunities: students serve as externs in a federal agency, congressional office, or nongovernmental organization and take part in a public policy or humanities seminar. They define and carry out individual research projects under the supervision of Cornell faculty members. Potential externships are arranged through, and approved by, the Cornell in Washington program. For further information, see p. 22 or inquire at M101 McGraw Hall, 255-4090.

#### Off-campus Programs Offered by Other Colleges

Students wishing to participate in the Urban Semester program, Capital Semester in Albany program, or the Earth and Environmental Systems (EES) semester in Hawaii must petition their advising dean with a list of the courses they wish to take during the program and a well-reasoned explanation of why the proposed semester is crucial for their major course of study. Students interested in the Cornell in Rome program should consult Dean Patricia Wasyliw in 55 Goldwin Smith Hall.

## ACADEMIC INTEGRITY

Academic integrity is the heart of intellectual life—both in learning and in research. All members of the university community simply must support each other's efforts to master new material and discover new knowledge by sharing ideas and resources, by respecting each other's contributions, and by being honest about their own work. Otherwise the university will fail to accomplish its most central and important goals.

Cornell's Code of Academic Integrity and policy about acknowledging the work of others are among the documents new students receive. Students should read them carefully and not assume they understand what integrity and cheating are and are not. Academic integrity implies more here at the university than it usually did in high school. The standards of integrity are those that prevail in professional life. This means that students must acknowledge and cite ideas they adopt from others (not just direct quotations) and help they receive from colleagues or parents. With productive emphases on collaborative learning and writing, students must understand the general standards and policies about academic integrity and be sure they understand the expectations in individual courses as well. When in doubt, ask the instructor. For more information, consult [cuinfo.cornell.edu/Academic/AIC.html](http://cuinfo.cornell.edu/Academic/AIC.html).

## Forgery or Fraud on Forms

Forging signatures or credentials on college forms is an academic offense and constitutes academic fraud. In all cases of forgery on academic forms, the effect of the forged documents shall be negated; such incidents will be recorded in the Academic Integrity Hearing Board's confidential file for forgeries. If the student forges more than once, or if the forgery would advance the student's academic standing unfairly or fraudulently, or if for any reason the situation requires some response in addition to the uniform penalty, the Academic Integrity Hearing Board might recommend further action, such as a notation on the student's transcript, suspension, or dismissal.

## ADVISING

The following advisors and offices provide academic advising, help with problems, and information on college procedures and regulations.

### Pre-Major Advisors

Each new student is assigned a faculty advisor. Advisors help students plan programs of study and advise them about ways to achieve their academic goals. Advisors may also help students with study or personal problems or may direct them to other offices on campus where help is available. Academic difficulties may frequently be solved or avoided if students and advisors recognize and address problems early.

Advisors and new advisees meet first during orientation week to discuss course selection. New students are encouraged to see their advisors again early in the semester, before it is too late to drop courses, to discuss their academic progress and to become better acquainted. Advisors and advisees meet at least once each semester to discuss courses for the following semester, and more often if advisees wish to discuss academic or personal issues or to petition for an exception to college rules.

### Major Advisors

After acceptance into a major, each student is assigned a faculty advisor in his or her department, with whom the student shapes and directs the course of study. The advisor eventually certifies the completion of the major. Students should consult their major advisor about all academic plans, including honors, study abroad, acceleration, and graduate study. The advisor's support is especially important if a student petitions for an exception to the normal procedures or requirements.

### Student Advisors

Student advisors pass on lore about the college and life at Cornell and help new students become oriented to the university.

### Office of Undergraduate Admissions and Advising

This office, located in 55 Goldwin Smith Hall, 255-5004, and 172 Goldwin Smith Hall, 255-4833, is a resource for faculty and student advisors and for individual students and their parents. Advising deans are available to help students define their academic and career goals, to help with special academic options

and exceptions to college rules, and to help when problems arise:

- David DeVries, associate dean for undergraduate admissions and advising and undergraduate research, 255-3386
- Juliette Corazón, minority students and liaison to Latino Studies Program, 255-4833
- Maria Davidis [on leave 2009-2010], juniors, seniors, Tanner Dean's Scholars, Rawlings Cornell Presidential Research Scholars, Mellon Mays Fellows, undergraduate research, and postgraduate fellowships, 255-4833
- Christa Downey, career services, 255-4166
- James Finlay, first- and second-year students, Independent Major Program, undergraduate research, and peer advisors, 255-5004
- Ken Gabard, first- and second-year students and College Scholar Program, 255-5004
- Ray Kim, juniors, seniors, student ambassadors, 255-4833
- Irene Komor, career counseling, 254-5295
- Clare McMillan, first- and second-year students, students with disabilities, Tanner Dean's Scholars, 255-4833
- Diane J. Miller, career services, 255-6924
- Sally O'Hanlon, registrar, 255-5794
- Myra Sabir, juniors, seniors, internal transfers, Mellon Mays Fellows, and minority students, 255-4833
- Tammy Shapiro, juniors, seniors, dual-degree students, 255-4833
- Arthur Smith, first- and second-year students
- Heather Struck, juniors, seniors, prelaw students, 255-4833
- Janice Turner, minority students and pre-med students, 255-9497
- Patricia Wasyliv, first- and second-year students, academic integrity, study abroad, 255-5004

### Committee on Academic Records

The college faculty's standing Committee on Academic Records has two main tasks: (1) to decide on students' petitions for exceptions to college requirements or rules and (2) to review the records of students who fail to maintain good academic standing and to take appropriate action. It accomplishes both those tasks without formulae and with attention to each individual situation. Its overriding goal is to help students achieve the best undergraduate education possible.

### Petitions

The college faculty takes graduation requirements seriously, and the faculty's Committee on Academic Records virtually never waives a requirement outright. However, some students, with the support of their advisors, propose structuring their educations or fulfilling the spirit of college requirements in ways other than the specified norms. The Committee on Academic Records decides on such requests. Students who find that their undergraduate education would be better realized by satisfying requirements or proceeding in a way that requires an exception to normal rules, for example, a substitution for the language requirement,

should meet with an advising dean in the Office of Undergraduate Admissions and Advising. The deans are expert in the college's expectations and procedures and can help the student formulate a petition, if appropriate. The committee decides petitions on the basis of their educational merit.

### Actions

The College of Arts and Sciences has no minimum grade requirement for graduation beyond the guideline that at least 100 Cornell credits of the 120 total required for graduation be passed with grades of C (not C-) or above. Consequently, only through actions of the Committee on Academic Records, described below under "Academic Standing," does the college maintain the quality of the degree and attend to individual situations when things academic are not going well.

## REGISTRATION AND COURSE SCHEDULING

### Enrollment in Courses in the College of Arts and Sciences

#### New Students

During orientation week, new students attend briefings and other information sessions, meet with faculty advisors, and sign into courses. The college reserves spaces in courses for its incoming students.

#### Continuing Students

Continuing students select and schedule up to five courses of 3 or more credits and as many 1- and 2-credit courses as they would like during the semester before the one in which the courses will be taken. Students who do not "pre-enroll" during the designated period must wait until the beginning of the semester and may have difficulty securing places in the courses they most want. Before enrolling in courses, students plan their programs and discuss long-range goals with their faculty advisors. In addition, all students are welcome to discuss programs and plans with an advising dean in the Office of Undergraduate Admissions and Advising, 55 or 172 Goldwin Smith Hall.

At the beginning of each semester, students find their schedules on Student Center at [www.studentcenter.cornell.edu](http://www.studentcenter.cornell.edu). Periodically during the semester, and particularly just before the 3-, 7-, and 12-week deadlines, they should confirm the accuracy of their records.

#### Limits on Numbers of Courses and Credits

To meet the 34-course requirement, students must normally take four courses during each of six semesters and five courses during each of two semesters. To meet the 120-credit requirement, students must average 15 credits per semester. (Note: AP credit and/or summer credits may reduce the average numbers of courses and credits required each semester.)

#### Minimum number of credits per semester

To maintain good academic standing as a full-time student, students must complete at least 12 degree credits per semester; if for compelling personal or academic reasons students need to carry fewer than 12 credits, they should consult their faculty advisor and

an advising dean. Permission is by petition only, and after the first semester, such permission is given only in extraordinary circumstances.

#### Maximum number of credits per semester

First-year students must petition to enroll in more than 18 credits; other students may enroll in up to 22 credits if their previous semester's average was 3.0 or higher and they are in good academic standing. No more than 22 credits may be taken in a regular semester without permission of the college faculty's Committee on Academic Records. Students who fail to receive approval for excess credits from the committee may count only 18 or 22 credits, depending on their previous semester's average, toward the degree for that semester. Students taking summer courses may earn no more than 12 credits in any one semester.

#### Attendance

Attendance in classes is expected. Absences are a matter between students and their instructors. If a student cannot attend classes because of illness or family crisis, the Office of Undergraduate Admissions and Advising will notify instructors at the request of the student or the family. Nonetheless, the student must arrange to make up examinations or other work with each instructor. A student who will be absent because of religious holidays or athletic competitions must discuss arrangements for making up work with his or her instructors well in advance of the absence. A student who must miss an examination must also consult with the professor in advance. Alternative arrangements are at the discretion of the instructor.

Student athletes should discuss scheduled absences with their instructors at the beginning of the semester. Courses vary in their tolerance of absences. Instructors are not obligated to approve absences for purposes of participating in extracurricular activities, although most will be as flexible as is sensible for a student's academic program.

#### Adding and Dropping Courses

After course enrollment (also known as pre-enrollment), students may not adjust their schedules until the new semester begins. During the first three weeks of the semester, students may change courses without petitioning. (Note: the add period for first-year writing seminars is only two weeks.)

After the third week of classes, students must petition to add courses and may add them only for a letter grade. They may drop courses through the seventh week of the semester if no issue of academic integrity is at stake. Between the seventh and 12th weeks students may petition to withdraw from courses, if (1) the instructor approves; (2) the advisor approves; (3) an advising dean approves; (4) the drop does not result in fewer than 12 credits; and (5) no issue of academic integrity is at stake. Students must meet with an advising dean to obtain petition forms.

Courses officially dropped after the seventh week will be noted on the transcript by a "W" where the grade would normally appear. **This is a matter of record and cannot be petitioned. Petitions to withdraw from courses may not be submitted after the end of the 12th week in the semester.** Deadlines for short courses will be adjusted according to the length of the courses.

The effective date of all course changes will be the day the student submits all completed paperwork to the Office of Undergraduate Admissions and Advising.

## GRADES

### Letter Grades

See "Grading Guidelines," pages 15–16.

### S–U Grades

The S–U (satisfactory–unsatisfactory) option allows students to explore unfamiliar subjects or take advanced courses in subjects relatively new to them without being under pressure to compete with better-prepared students for high grades. Students are expected to devote full effort and commitment to a course and complete all work in a course they take for an S–U grade. The S–U option is contingent upon the instructor's willingness to assign such grades. **Students must select their grading option and obtain the instructor's approval for the S–U option during the first three weeks of the semester. No exceptions to this deadline are permitted, and consequently students adding courses after the third week of the semester must add them for a letter grade.** After the third week of the semester, students may not petition for a grade option change, unless the course in question has been taken for S–U and is now part of the student's major. If, subsequently, the student withdraws from that major, the grade option will revert to its prior state. Students should note that a grade of S is equivalent to a grade of C– or higher; a grade of U, which is equivalent to any grade below C–, is a failing grade equal to an F. S means the student receives the credit specified for the course. U means no credit is given. A few courses in the college are graded exclusively S–U; in that case, the final grade appears on the transcript as SX or UX.

Prerequisite courses for graduate school and courses counting toward the major should not be taken for an S–U grade, unless the department grants permission. Students may elect the S–U option in courses used to satisfy distribution and elective requirements, provided that such courses do not also count toward major requirements or serve as prerequisites for admission to the major. First-year writing seminars and most language courses disallow the S–U option. In any case, students are advised to use the S–U option sparingly, if they intend to apply to graduate school or for transfer to another college. In addition, second-semester seniors in particular are advised to use the S–U option carefully: A student receiving a D in a nonmajor course he or she needs for graduation will still be graduated if that course has been taken for a letter grade. If, however, the student has taken the course S–U, the D will be recorded as a U and the student will be unable to be graduated on the desired degree date. There is no limit on the number of courses each semester for which students may elect the S–U grade, but within the 120 credits required for the degree, a minimum of 80 credits must be in courses for which a letter grade was received.

### Note of Incomplete

An incomplete (INC) signifies that a course was not completed before the end of the semester for reasons beyond the student's control and acceptable to the instructor. Students must have substantial (normally at least 50 percent) equity in the course, be able to complete the remaining work, and have a passing grade for the completed portion. When a grade of incomplete is reported, the instructor submits a form stating what work must be completed, when it must be completed, and the grade (or permanent—"frozen"—incomplete) earned if the work is not completed by that date. When a final grade is determined, it is recorded on the official transcript with an asterisk and a footnote explaining that this grade was formerly an incomplete.

Students should be aware that INCs are interpreted as credits not passed during a given semester. If a student's INC takes his or her record below 12 credits in a given semester, the student risks being placed on warning or on leave by the Academic Records Committee. If placed on leave, the student must complete the INC before being allowed to return, and readmission will be permitted only at the beginning of a given semester. If the INC is not completed by the beginning of a regular academic term, the student may not register for that term. Students must resolve (make up or "freeze") any incompletes with their instructors before graduation.

### Note of R (Yearlong Courses)

R is recorded for satisfactory progress at the end of the first semester of a two-semester course. Students enroll in such courses both semesters. The grade recorded at the end of the second semester evaluates the student's performance in the course for the entire year and will also replace the grade of "R" for the first semester of the course.

Students enrolled in an R course for the thesis may occasionally wish or feel compelled not to complete that thesis. In order to drop the thesis but continue with an independent study, the student should see Sue Downes in 172 Goldwin Smith Hall for the appropriate forms.

### Grade Reports

Grade reports are available online on Student Center at [www.StudentCenter.cornell.edu](http://www.StudentCenter.cornell.edu); they are not mailed to students. Students should periodically check their courses and grades to be sure that they are recorded correctly.

### Class Rank

The college does not compute class rank.

### Dean's List

Inclusion on the Dean's List is an academic honor bestowed by the dean of the college semester by semester. Based on grades, the criteria include about the top 30 percent of students and vary with the number of credits the student completes. The criteria are subject to slight changes from semester to semester and are available at [www.arts.cornell.edu/stu-adv/deanslist.asp](http://www.arts.cornell.edu/stu-adv/deanslist.asp) and in the Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall.

## ACADEMIC STANDING

Students are in good academic standing for the semester if they successfully complete at least 12 degree credits by the end of the semester and earn no more than one D and no F or U grades. If a student completes only three courses, all grades must be above D. In addition, students are expected to make satisfactory progress toward satisfying requirements for the degree and to earn grades of C (not C-) or better in at least 100 of the 120 credits for the degree. Courses listed under "courses that do not count toward the degree" do not count toward good academic standing in a semester.

### Academic Actions

Students who are not in good academic standing will be considered for academic action by the college faculty's Committee on Academic Records or by one of the advising deans of the college. Students are urged to explain their poor academic performance and submit corroborating documentation. Students may appeal a decision or action of the committee if they have new relevant information and documentation. They must consult an advising dean about appealing.

### Warning

Any student who fails to maintain good academic standing will, at a minimum, be warned. A warning is posted on a student's college record but is not reported to the university registrar and does not appear on official transcripts.

### Required leave of absence

A student in serious academic difficulty may be required by the faculty Committee on Academic Records to take a leave of absence, normally for a full year. Usually, but not always or necessarily, the Committee on Academic Records warns students before suspending them. Before being allowed to return and reregister in the college, students must document what they did on leave and how they resolved their problems, and they must submit a plan for completing the degree. In some cases students will be required to furnish evidence that they are ready to return or satisfy other conditions before being allowed to reregister in the college. Students who request to return in less than a year must present to the committee extraordinarily convincing evidence of their readiness to return. "Required leave" is posted on the student's official transcript.

### Required withdrawal

The faculty Committee on Academic Records may dismiss a student from the college because of a highly unsatisfactory record for one semester or for failure to make satisfactory overall progress in grades, credits, or degree requirements. This action expels the student permanently from the college. "Required withdrawal" is posted on the student's official transcript.

### Leaves of absence (LOAs)

Most leaves of absence are not required. Taking time off from college to gain experience or funds, or to find direction, is sometimes useful. In general, students arrange in advance for leaves to take effect the following semester. Students in good academic standing must see an advising dean to obtain

and submit a leave of absence statement, to be approved by the advising dean. Students may take a personal leave of absence up to the beginning of the semester (defined as the first day of classes). Students not in good academic standing may pursue a conditional leave of absence from the college up to the first day of classes. If medical issues are involved, students must consult Gannett: Cornell University Health Services about the advisability of a medical leave of absence.

**Any student who wishes to take a leave of absence must consult with an advising dean in the Office of Undergraduate Admissions and Advising, 55 or 172 Goldwin Smith Hall.**

Students sometimes find it necessary to take a leave of absence at some point during the semester. In addition to the serious financial consequence of taking leaves after the semester has begun (see the Proration Schedule for Withdrawals and Leaves of Absence in the General Information section of this catalog), all leaves taken during the semester are granted at the discretion of the college and must, if granted, be conditional leaves of absence. Students must discuss their need for a LOA with an advising dean.

### Leaves of Absence are of four types:

1. *Personal leaves* impose no conditions concerning reentering the college except for the five-year limit (see "Return from Leave," below). Readmission is automatic upon written request made by the student to his or her advising dean by August 1 for a fall semester, or January 1 for a spring semester. The college is not obliged to re-admit any student who does not meet the deadline for a given semester.
2. *Conditional leaves* are granted by the college for students who wish to take a leave but are not in good academic standing, or for students who wish to take a leave during the current semester. In consultation with the student, an advising dean and the Committee on Academic Records set the conditions for the student's return. Students may not return from conditional leaves for at least two semesters and/or until specific and individual conditions, such as completing unfinished work, have been met, and permission to return must be granted by the Committee on Academic Records. Students may be granted conditional leaves after the 12th week of a semester only under extraordinary circumstances and with the approval of the faculty's Committee on Academic Records.
3. *Medical leaves* are granted by the college only upon the recommendation of Gannett Health Services, and are usually issued for at least six months. The college may attach additional conditions appropriate to the individual situation. The student's academic standing is also subject to review at the time of the leave and on return. Students must then receive clearance from both Gannett and the college to be readmitted to study. Students wishing to return from a medical leave should contact Gannett several months in advance to initiate the return process, and only then contact the college.

4. *Required leaves.* The Committee on Academic Records may require a leave of absence if a student is not making satisfactory progress toward the degree. See "Academic Actions."

Students on conditional or required leaves of absence (LOA) may not attend any classes at Cornell through the School of Continuing Education and Summer Sessions. Students on a medical LOA may not register for classes at Cornell unless they obtain the permission of the college and a recommendation from Gannett. Courses taken without college permission will not count toward degree requirements.

### Return from Leave

Students wishing to return from leave must contact the college and, where appropriate, provide documentation that all conditions for readmission have been satisfied. All requests for readmission must be received by the college by August 1 for the fall semester and January 1 for the spring semester. In the case of conditional and/or medical leaves, students must consult well in advance of those dates with both the college and Gannett. On readmission, the student's graduation date will be recalculated to account for the time spent away. Five years is the maximum length of time a student may be on leave before being withdrawn from the college.

### Transferring Credits Earned While on Leave

Students who take courses elsewhere in the United States while on leave may petition to have credits transferred. Petitions are available in 55 and 172 Goldwin Smith Hall and at [www.arts.cornell.edu](http://www.arts.cornell.edu). Approval depends on acceptable grades and the judgment of the relevant departments about the quality of the courses. If approved, these credits may be applied toward the 120 credits and 34 courses needed for graduation, but not toward the 100 credits required in the college. They may be applied to elective requirements or to the major, as allowed by the department, but not to any of the breadth or distribution requirements. **Credits earned during a leave do not count toward the eight semesters of residence and may not be used to reduce the terms of residence below the required eight. See "Residence."**

### Study Abroad and International Students on Leave of Absence

Study abroad undertaken during a leave of absence will not receive academic credit. International students on leave of absence from the College of Arts and Sciences may enroll in courses at a college or university in their home country **only**, as such enrollment is not defined as study abroad. They may petition for transfer of credit upon return to Cornell. If approved, the credit will count as described in the previous paragraph.

### Withdrawals

A withdrawal is a permanent severance from the university and from candidacy for the degree. Students planning to withdraw should consult an advising dean. Students not requesting a leave and failing to register for a semester will be withdrawn from the college. The college faculty's Committee on Academic Records may require a student to withdraw because of a highly unsatisfactory academic record, and the college may require a student

to withdraw because of failure to register in a timely fashion.

**Transferring within Cornell (Internal Transfer)**

Internal transfer from one college or school at Cornell into another is attractive for students whose intellectual interests change (or become more focused). Students who wish to transfer should discuss their eligibility with a counselor in the new school or college.

In some cases, students who want to transfer into the College of Arts and Sciences may transfer directly. In other cases, they may be referred to the Internal Transfer Division. During the semester immediately preceding transfer into the College of Arts and Sciences, students must complete at least 12 credits of courses in the College of Arts and Sciences with a 3.0 average and with no grades of *Incomplete*, S–U grades (unless only S–U grades are offered for that particular course), or grade below C (C– is below C). Satisfying this minimum requirement does not, however, guarantee admission. Admission to the college is based on consideration of the student's entire record at Cornell and the high school record, not just the work of one semester. It is also based on ability to complete the B.A. degree within a reasonable time. Internal transfers are required to spend four semesters in Arts and Sciences and thus should initiate the transfer process no later than the second semester of sophomore year. They also must complete at least 100 credits at Cornell with grades of C (not C–) or above. Interested students should see Dean Ray Kim, 172 Goldwin Smith Hall.

**GRADUATION**

**The Degree**

The College of Arts and Sciences grants only one degree (no matter the student's major): the A.B. (or B.A.). A.B. is the abbreviation of the Latin name for the degree, "artium baccalarius," or translated into English, B.A., "Bachelor of Arts."

**Application to Graduate**

In the first semester of their senior year, students will receive an e-mail instructing them to complete an online application to graduate. The application is intended to help seniors identify problems early enough in the final year to make any necessary changes in course selection to satisfy those requirements. *Nonetheless, meeting graduation requirements is the student's responsibility*; problems that are discovered, even late in the final semester, must be resolved by the student before the degree can be granted. Students are responsible for checking their DUST reports and transcripts and alerting their advising deans of any problems with the academic record.

**Degree Dates**

There are three degree dates in the year: May, August, and January. Students who plan to graduate in August may attend graduation ceremonies in the preceding May. Students graduating in January are invited to a special recognition ceremony in December; they may also attend graduation ceremonies the following May.

**Honors**

**Bachelor of Arts with Honors**

Almost all departments offer honors programs for students who have demonstrated exceptional accomplishment in the major and succeeded in research. The honors programs are described by individual departments. The degree of Bachelor of Arts *cum laude*, *magna cum laude*, or *summa cum laude* will be conferred upon a student who, in addition to having completed the requirements for the degree of Bachelor of Arts, has been recommended for a level of honors by the major department, the Independent Major Program, or the College Scholar Program. Concentrations do not offer honors programs.

**Bachelor of Arts with Distinction**

The degree of Bachelor of Arts with distinction in all subjects will be conferred on students who have completed the requirements for the degree of Bachelor of Arts, if they have met the following requirements by the end of their final semester:

1. completed at least 60 credits while registered in regular sessions at Cornell;
2. achieved a GPA in the upper 30 percent of their class at the end of the seventh semester, or next-to-last semester for transfers and accelerants;
3. received a grade below C– in no more than one course;
4. received no failing grade;
5. have no frozen Incompletes on their records; and
6. maintained good academic standing, including completing a full schedule of at least 12 credits, in each of their last four semesters. (Students who have been approved to be pro-rated for the final semester in order to complete an honor's thesis are considered to be in good academic standing and therefore eligible to receive distinction.)

**CALENDAR SUPPLEMENT**

All of the dates in the university calendar at the front of this volume apply to all Cornell students. Listed below are some additional dates that are of importance for students in the College of Arts and Sciences.

	Fall 2009	Spring 2010
Last day for adding courses without petition	Sept. 18	Feb. 15
Last day for adding a first-year writing seminar	Sept. 11	Feb. 5
Last day for changing grade option to S–U or letter	Sept. 18	Feb. 15
First deadline for submitting independent major requests. Go to 55 Goldwin Smith Hall for further information.	Sept. 29	Feb. 23
Last day for dropping courses without petition	Oct. 16	March 15

Last day to petition to withdraw from a course	Nov. 20	April 23
Second deadline for submitting independent major requests. Go to the Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall, for further information.	Nov. 24	April 6
Deadline for requesting internal transfer to the College of Arts and Sciences for the following semester.	Dec. 5	May 1
Deadline for applying to the College Scholar Program.		April 29
Deadline for applying Office, to study abroad	See Cornell Abroad Office, 474 Uris Hall	
Course enrollment (preregistration) for the following semester.	TBA	TBA

**Departments, Programs, and Courses**

**AFRICANA STUDIES AND RESEARCH CENTER**

S. Hassan, Director (254-1592); N. Assié-Lumumba, A. Bekerie, C. Boyce Davies, J. Byfield, L. Edmondson, G. Farred, T. Gosa, R. Harris, A. Mazrui, A. Nanji, R. Richardson, J. Turner. Offices: 310 Triphammer Road, 255-4625 or 255-4291.

The Africana Studies and Research Center is concerned with the examination of the history, culture, intellectual development, and social organization of Black people and cultures in the Americas, Africa, and the Caribbean. Its program is structured from an interdisciplinary and comparative perspective and presents a variety of subjects in focal areas of history, literature, social sciences, and African languages. African languages such as Swahili and Yoruba are consistently offered fall and spring semesters and some are also taught during summer/winter session.

The center offers a unique and specialized program of study that leads to an undergraduate degree through the College of Arts and Sciences and a graduate degree, the Master of Professional Studies (African and African-American), through the university's Graduate School.

A student may major in Africana Studies; however, another attractive alternative is the center's minor in Africana Studies. This program enables the student to complete a major in any of the other disciplines represented in the college while at the same time fulfilling requirements for a minor in Africana Studies. This requires only a few more credits than is usually the case when one completes a single major course of study. Courses offered by the center are open to both majors and nonmajors and may be used to meet a number of college distribution requirements, including historical/temporal breadth (#) and geographical breadth (@) requirements, such as first-year writing seminars, languages, expressive arts, humanities, social sciences, and history.

The center also brings distinguished visitors to the campus, sponsors a new Book/Black

Author series, a colloquium series, and houses its own Africana library, the John Henrik Clarke Library.

### The Africana Major

The undergraduate major offers interdisciplinary study of the fundamental dimensions of the African American, African, and Caribbean experiences. Because of the comprehensive nature of the program, it is to the students' advantage to declare themselves Africana majors as early as possible. The following are prerequisites for admission to the major.

Students should submit:

1. a statement of why they want to be an Africana Studies major;
2. a tentative outline of the area of study they are considering (African, African American, or Caribbean) for the major; and
3. a full transcript of courses taken and grades received.

The center's director of undergraduate studies will review the applications and notify students within two weeks of the status of their request.

After acceptance as a major in the Africana Center, a student must maintain a C+ cumulative average in the center's courses while completing the major program. The Africana major must complete 36 credits in courses offered by the center, to include the following four core courses: ASRC 2300, 2601, 2602, and 4501. Beyond the core courses, the student must take 8 credits of center courses numbered 2000 or above and 15 credits numbered 3000 or above. The program of an undergraduate major may have a specifically African American or African focus.

### The Africana Minor

The center offers minors in Africana Studies. The center's director of undergraduate studies will assist students in the design and coordination of minor programs. For the minor the center will require that at least 16 credits be taken in Africana Studies courses, including ASRC 2602.

### Double Majors

In the case of double majors, students undertake to carry the full load of stipulated requirements for a major in each of the two departments they have selected.

### [Certificate in African Studies

Not available 2009-2010. In conjunction with the Institute for African Development, the Africana Studies and Research Center administers an undergraduate Certificate in African Studies program. The certificate is available to students in all of the undergraduate colleges at Cornell. Many of the courses in the program might be used to fulfill other course distribution requirements. By pursuing this certificate, students acquire an interdisciplinary understanding of Africa.]

### Honors

The honors program offers students the opportunity to complete a library research thesis, a field project in conjunction with a report on the field experience, or a project or experiment designed by the student. The requirements for admission to the honors program for all students—regular majors, joint majors, and double majors—are a B– cumulative average in all courses and a B+ cumulative average in the center's courses. Each student accepted into the honors program will have an honors faculty committee consisting of the student's advisor and one additional faculty member, which is responsible for final evaluation of the student's work. The honors committee must approve the thesis or project before May 1 of the student's junior year. The completed thesis or project should be filed with the student's faculty committee by May 10 of the senior year.

### Language Requirement

Courses in Swahili, Arabic, Yoruba, and Zulu may be used to satisfy the College of Arts and Sciences language requirement. In Swahili, successful completion of ASRC 2100 satisfies Option 1. For Yoruba, successful completion of ASRC 2103 satisfies Option 1. For Arabic, ASRC 2101 or ASRC 3101 satisfy Option 1. For Zulu, ASRC 2104 satisfies Option 1. ASRC majors are not required to take an African language, but the center recommends the study of an African language to complete the language requirement.

### First-Year Writing Seminars

See John S. Knight Institute brochure for times, instructor, and descriptions.

#### ASRC 1100 Elementary Swahili I

Fall, winter, summer. 4 credits. Language lab times TBA. A. Nanji. Beginner's Swahili. Part 1—Grammar for speaking, reading, and writing. Requires no knowledge of language. Swahili is spoken in the East and Central parts of Africa.

#### ASRC 1101 Elementary Swahili II

Spring, summer, winter. 4 credits. Prerequisite: ASRC 1100. A. Nanji. Continued study of the basic grammatical formation of the language and the introduction of reading material ranging from songs to short stories. A great many drills are used in this course to help develop the student's comprehension of the language. Swahili tapes are used during all of these sequences.

#### ASRC 1102 Intermediate Swahili I

Fall. 4 credits. Prerequisites: ASRC 1100 and 1101. A. Nanji. Advanced study in reading and composition.

#### ASRC 1104/1105 Elementary Arabic I and II (also NES 1201/1202)

Fall, spring, summer. 4 credits. M. Younes. For description, see NES 1201/1202.

#### ASRC 1106/2101 Intermediate Arabic I and II (also NES 1203/2200)

Fall, spring, summer. 4 credits. ASRC 2101 @ satisfies Option 1. M. Younes. For description, see NES 1203/2200.

#### ASRC 1108/1109 Introduction to Yoruba I and II

Fall/spring. 4 credits. A. Ademoyo. A two-semester beginner's course in Yoruba Language and Culture. Organized to offer Yoruba language skills and proficiency in speaking, reading, listening, writing, and translation. Focus is placed on familiar informal and formal contexts, e.g., home, school, work, family, social situations, politics, etc. Course uses Yoruba oral literature, proverbs, rhetoric, songs, popular videos, and theatre, as learning tools for class comprehension. First semester focuses on conversation, speaking and listening. Second semester focuses on writing, translation and grammatical formation. Through the language course students gain basic background for the study of an African culture, arts, and history both in the continent and in the diaspora. Yoruba language is widely spoken along the west coast of Africa and in some African communities in diaspora. Yoruba video culture, theatre, music, and arts have strong influence along the west coast and in the diaspora.

#### ASRC 1110 Intermediate Yoruba I

Fall. 4 credits. Prerequisite: ASRC 1109. A. Ademoyo. The intermediate course extends the development of the main language skills, reading, writing, listening, and conversation. The course deepens the development of correct native pronunciation, the accuracy of grammatical and syntactic structures; and the idiomatic nuances of the language. Students who take the course are able to (i) prepare, illustrate and present Yoruba texts such as poems, folktales, advertisements, compositions, letters, (ii) read Yoruba literature of average complexity, (iii) interpret Yoruba visual texts of average difficulty, (iv) comprehend Yoruba oral literature and philosophy—within the context of African oral literature and philosophy—of basic complexity. Through the Yoruba language students appreciate African oral literature and philosophy. The primary textual media are Yoruba short stories, poems, short plays, films, songs, and newspapers.

#### ASRC 1114/1115 Elementary Zulu I and II

Fall, spring. 4 credits. S. Mkhonza. Zulu, known by native speakers as IsiZulu, is one of the 11 official languages of South Africa. Out of the four Nguni languages (Zulu, Xhosa, Swati, and Ndebele), Zulu is the most widely spoken. The advantage of learning IsiZulu is that it forms the basis for understanding the other Nguni languages. This is a two-semester elementary course which introduces students to the basic structures of the language which are applied to rapidly develop the primary speaking, reading, and writing skills of the Zulus. The class will also explore traditional and contemporary cultures of the Zulu people.

#### ASRC 1116 Intermediate Zulu I

Spring. 4 credits. Prerequisite: ASRC 1115. S. Mkhonza. The course will help students to expand their understanding of the Zulu language through the communicative approach. We will focus on the four skills, speaking, listening, reading and writing. Intermediate work focuses on reading and speaking spontaneously. We will introduce composing in Zulu more reading.

**ASRC 1300 Africa: The Continent and Its People @ (HA-AS)**

Fall. 3 credits. L. Edmondson.

Introductory interdisciplinary course focusing on Africa's geographical, ecological, and demographic characteristics; indigenous institutions and values; the triple cultural heritage of Africinity, Islam, and Western civilization; main historical developments and transitions; and contemporary political, economic, social, and cultural change. Africa's ties with the United States (from trans-Atlantic slavery to the present), its impact on the emerging world order, and its contribution to world civilization are also explored.

**ASRC 1600 Black Families and the Socialization of Black Children (SBA-AS)**

Fall. 3 credits. T. Gosa.

This course explores the historic and contemporary dynamics of the African American family in U.S. society. We will begin our work by focusing on the socio-historical, -political, and -cultural contexts of black family formations and functions in the African Diaspora. Students will be challenged to consider the continuation of African heritage in black family organization. We will review Afrocentric, feminist, and sociological frameworks for understanding black families. The course proceeds to consider more contemporary topics including gender roles, divorce and marriage dissolution, sexuality and love, mate selection, parenting and fatherhood, and the well-being of black children. We will pay special attention to how black families are (re)imagined in popular culture, including representations in the news, film and television, and music.

**ASRC 1900 Research Strategies in Africana and Latino Studies (also LSP 1101)**Spring. 1 credit. E. Acree and T. Cosgrave.  
For description, see LSP 1101.**ASRC 2100 Swahili Literature @ (LA-AS)**Spring. 4 credits. *Satisfies Option 1.*

Prerequisite: ASRC 1102. A. Nanji.

Students gain mastery over spoken Swahili and are introduced to the predominant Swahili literary forms.

**ASRC 2103 Intermediate Yoruba II @**Spring. 4 credits. *Satisfies Option 1.*

Prerequisite: ASRC 1110. A. Ademoyo.

The Intermediate Yoruba II is a follow-up to Intermediate Yoruba I. It is a fourth semester Yoruba Language course. The course assists students to acquire advanced level proficiency in reading, speaking, writing and listening in Yoruba language. Students are introduced to grammatical and syntactic structures in the language that will assist them in describing, presenting, and narrating information in the basic tenses. At the end of the course, students will be able to listen to, process and understand programs produced for native speakers in media such as television, radio, films etc. They will be able to read and understand short stories, novels, plays written for native speakers of the language.

**ASRC 2106 Intro to Quranic Arabic (also NES/RELST 2204) @ (LA-AS)**

Spring. 4 credits. M. Younes.

For description, see NES 2204.

**ASRC 2300 African Cultures and Civilizations # @ (CA-AS)**

Spring, summer. 3 credits. A. Bekerie.

Concerned with the peoples of Africa and the development of African cultures and civilizations from the earliest times to the present day. Focuses on the near modern civilizations of Africa south of the Sahara, and the ancient civilizations of Egypt and the Nile Valley, together with their contributions to the development of the major world civilizations. Also deals with the sociopolitical organization of African societies, their kinship systems, cross-cutting ties, rites of passage, gender relations, and arts (including music, dance, folklore, architecture, sculpture, painting, and body decoration).

**ASRC 2304 African Encounters with Colon (also HIST 2540) @ (HA-AS)**

Spring. 4 credits. D. Magaziner.

For description, see HIST 2540.

**ASRC 2306 The Past and Present of Precolonial Africa (also HIST 2550) @ (HA-AS)**

Spring. 4 credits. S. Greene.

For description, see HIST 2550.

**ASRC 2307 The White Image in the Black Mind (also HIST 2412) @ (HA-AS)**

Fall. 4 credits. S. Greene.

For description, see HIST 2412.

**ASRC 2308 Caribbean History (also HIST 2308) (HA-AS)**

Fall. 3 credits. J. Byfield.

This course provides an historical overview of the Caribbean beginning with a brief examination of indigenous society and the impact of European colonization. Most of our attention will focus on the development of the plantation economy, slavery, post-emancipation and post-colonial society. Readings pay particular attention to the ways in which race, gender, and ethnicity shape the histories of the peoples of the region. The course uses a pan-Caribbean approach by focusing on three islands—Cuba, Haiti, Jamaica—that belonged to competing empires. Although their histories are shaped in distinct ways by their former metropolises, they share certain common features. Therefore, we examine the differences and similarities of their histories as they evolved from plantation based colonies to independent nations.

**ASRC 2309 Reading and Writing the African Diaspora (also HIST 2461) @ (HA-AS)**

Spring. 4 credits. D. Magaziner.

For description, see HIST 2461.

**ASRC 2505 Literature, Sports, and Ideology (also ENGL 2751) (LA-AS)**

Fall. 3 credits. G. Farred.

This course will explore the relations amongst sport, literature, and ideology. Reading texts from a variety of genres, novels, "memoirs," social histories (that are also love letters to a particular team), and some forms that refuse easy categorization, this course seeks to understand the very distinct, and often hard to define exactly, that sport "performs" in literature. From Don DeLillo's *Underworld* to Eduardo Galeano's beautiful, cryptic contemplation on football (*Soccer in Sun and Shadow*) to CLR James' magisterial work on cricket (*Beyond a Boundary*), this course will engage writings on sport from all over the world. Sport, the premise is here, opens the reader up to the world in a way that no other literary pursuit does.

**ASRC 2601 Afro-American Social and Political Thought (SBA-AS)**

Spring. 3 credits. J. Turner.

This is an introductory course that reviews and analyzes the major theoretical and ideological formulations developed and espoused by African-Americans in the struggle for liberation. We focus specifically on the political philosophy and historical significance of Malcolm X, and the work and movement of Marcus Garvey, as the prime movers of nationalism and pan-Africanism among Black people in this century. Such themes as slave resistance, nationalism, Pan-Africanism, emigration, anti-imperialism, socialism and internal colonialism, and the political and social views of Black women are discussed. Black political thought is viewed in its development as responses to concrete conditions of oppression and expression.

**ASRC 2602 The Sociology of the African-American Experience (SBA-AS)**

Fall. 3 credits. J. Turner.

This is an introductory course to the field of Africana Studies. It assumes a historical/sociological approach to the examination of the African-American experience. The course surveys the African beginnings of humankind and the classical role of Black people in world civilization and the making of early culture. The course treats issues in the humanities, social sciences, and history. The course is required for all undergraduate students majoring at the Africana Center.

**ASRC 3100/3101 Advanced Intermediate Arabic I and II (also NES 3201/3202) @**Fall/spring. 4 credits. *ASRC 3100 satisfies Option 1.* M. Younes.

For description, see NES 3201/3202.

**ASRC 3200 Politics of Global Africa (also ASRC 6200) @ (SBA-AS)**

Fall. 4 credits. A. Mazru'i.

This course will combine the study of Africa with the study of two Diasporas. The Diaspora of Enslavement concerns enslaved Africans and descendants of slaves in both the Western and Eastern Diaspora. The Diaspora of Colonization concerns demographic dispersal as a result of colonialism. African Americans are part of the Diaspora of Enslavement. Algerian immigrants into France are part of the Diaspora of Colonization. Jamaicans and Trinidadians in Briton are a double-Diaspora—products of both enslavement and colonialism. This course will also examine the debate about whether the African peoples are owed reparations by either the West of the Arabs or both. This course will address the following areas of comparative Black experience: the politics of race, gender, religion, liberation, language, civil rights and postcoloniality.

**ASRC 3205 Thinking Black Intellectuals**

Spring. 4 credits. G. Farred.

"Thinking Black Intellectuals" departs from the premise that there is always, in one form or another, a "crisis"—or, a question about the "role" of the intellectual. However, in the conception of this course, the intention is not to address this issue. Instead, the course seeks to "demonstrate" the act of, properly speaking, Black intellectual thinking. By reading a series of texts, from Black scholars in philosophy such as Valentin Mudimbe to the renowned African-American theologian and preacher, Gardner C. Taylor, from the artistic oeuvre of Fela Kuti to the interventionist work of Angela Davis, this course will engage the thought of Black intellectuals. What, the guiding question

will be, does it mean to think, specifically, or not, as a Black intellectual?

**ASRC 3300 African History: Earliest Times to 1800 @# (HA-AS)**

Fall. 3 credits. *May be used for history requirement; satisfies geographical and historical breadth requirement.*

A. Bekerie.

As the second largest continent with vast and varying geographical and sociocultural conditions combined with recently established fact as an original home of human species, Africa provides a rich and diverse oral and written early history. The course covers some of the major historical signposts from the origins of human species to 1800. Among the topics for discussion are: Physical and Economic Geography of Africa, the Cradle of Humankind, the Peopling of Africa, Historical Perspectives and Sources, the Nile River Cultural Complex, Berber, Carthage and Maghreb of North Africa, Upper Guinea and Western Sudan of West Africa, cities of the East African Coast, and Great Zimbabwe and other sites of Southern Africa.

**ASRC 3302 West Africa and West: 1450-1850 (also HIST 3650) @ # (HA-AS)**

Fall. 3 credits. S. Greene.

For description, see HIST 3650.

**ASRC 3303 History and Popular Culture in Africa (also ARTH/HIST 3303)**

Spring. 4 credits. J. Byfield.

Although African societies are often presented as suspended in "traditional" culture, visitors to the continent are acutely aware of the dynamic popular culture that exists. This course uses a multidisciplinary approach to explore the complex relationship between history and popular culture in several African countries. Examining old as well as new forms of popular culture, we will explore the ways in which artists, writers, filmmakers, and musicians use moments of great historical significance or key historical actors as a point of departure for critique and reflection on the present. Examples will be taken from eastern, western, and southern Africa.

**ASRC 3304 African American History: B. T. Washington to B. Obama**

Spring. 4 credits. R. Harris, Jr.

This course will examine the changing contours of the African American past from the post-Reconstruction period to the present. W.E.B. Du Bois in *The Souls of Black Folk* evoked the need to study Black America from the inside out and in relation to the trajectory of American history. This course will seek to understand the challenges, triumphs and tragedies, of African Americans in the quest for racial equality in the United States. It will consider, against the backdrop of the past, the extent to which the election of a Black President of the United States has signaled the end of Black history and the arrival of a post-racial America.

**ASRC 3500 African American Art (also ARTH 3500) (LA-AS)**

Fall. 3 credits. C. Finley.

For description, see ARTH 3500.

**[ASRC 3510 Caribbean Literature (also ENGL/FGSS 3510) (LA-AS)]**

Fall. 4 credits. Next offered 2010-2011.

C. Boyce Davies.

This course examines representative literature of the Caribbean, including work by Caribbean women writers. We will examine the writings of Caribbean communities abroad

as we broaden the meanings of what is Caribbean. Traditional and contemporary oral/folk/urban forms of creative expression and film expression will be features of our ongoing analysis. We will pursue some of the themes that have been current in Caribbean literature and the particular relationships of Caribbean literature to the construction of American and/or English literatures and the definitions of Caribbeaness. Our sub-theme focuses on the discourses of migration that have garnered substantial attention in recent years and is a fundamental feature of the construction of Caribbean identities and literatures.]

**ASRC 3604 U.S. Education, Oppression, Resistance**

Spring. 4 credits. T. Gosa.

Despite salient reductions in educational inequality over the past 30 years, the academic underachievement of Black, Latino/a, and Native American youth remains one of the most researched, yet stubborn social problems in American society. The goal of this course is to explore issues of race and ethnicity in American education. Students will be asked to consider the ways in which schools foster poor academic performance and devalue minority youth's cultural and ethnic identities. Topics include school and residential segregation, academic tracking, language isolation, teacher quality, pedagogy and curriculum, and family/peer group influences. We will pay special attention to how students resist unfair schooling conditions and persist against the odds. The course will conclude with the limits and possibilities for school reform.

**[ASRC 4200 Afrocentricity: Paradigm and Critical Readings @ (CA-AS)]**

Fall. 4 credits. Next offered 2010-2011.

A. Bekerie.

What is Afrocentricity? It is a theoretical framework designed to study and interpret the histories and cultures of peoples of Africa and African descent by locating them at the center of their experiences. In other words, it is a method of knowing the life experiences of African peoples from the inside out. The course examines—through the writings of Asante, Keto, Clarke, Jean, Myers, Amin, Mazrui, Gates, Appiah, Richards, Schlesinger, and Thiongo—the conception and depth of the paradigm, its relevance in the production and utilization of knowledge, particularly emancipatory knowledge, the history of the paradigm, and the debate it generates among a wide range of thinkers and scholars.]

**ASRC 4201 Islam in Africa and Its Diaspora (also ASRC 6206, DSOC 4360/6630, NES 4501) (CA-AS)**

Spring. 4 credits. A. Mazrui.

It has been estimated that one-third of the Muslim population of the world is in Africa and the African Diaspora. This course addresses the historical dimension of Islam in the Black experience examining Global Africa as a whole. Within the African continent, Islam is part of the triple religious heritage, which includes rivalry with Christianity and co-existence with African indigenous religions. In the Americas, Islam is up against Western secularism and Christianity. We are concerned with how Islam has affected the politics and cultures of the African peoples worldwide, issue of slavery and Islam, and the interaction between Islam and contemporary ideologies of socialism, nationalism and race consciousness in the Black experience.

**ASRC 4300 African American Politics (also ASRC 6301) (HA-AS)**

Fall. 4 credits. J. Turner.

The central thesis of African-American politics has been its movements for political change and democratic access and human rights. This development since the 17th century is a complex political legacy. This course conducts a close study of African-American political practice and theoretical analysis of the American political system. Implications of the political systems for prospects and limitations to participation by Black people are analyzed. Critical historical stages in the process of Black politics are examined. The development of electoral offices in federal and statewide politics in critical industrial centers, as well as rural hamlets, center the course. Presidential politics—the Jesse Jackson campaigns—and new political formations including Black Republicans/conservatives constitute the emphasis on contemporary events. The course reviews the development of the literature in African-American politics.

**ASRC 4301 African American History: Black Leaders and Movements**

Spring. 4 credits. R. Harris, Jr.

From rebellions aboard slave ships through the quest for black self-determination, African Americans have sought to define freedom, justice, and equality for themselves and in the process have challenged the universality of the American Creed. This course will examine the dynamics of leadership, types of leaders, and the major movements that have emerged among African Americans from the early 17th century to the present. The relationship between leaders and followers, balance between ends and means, and measures of success and failure will be major concerns of the course.

**ASRC 4302 Nile Valley Civilization: Ethiopia, Nubia, and Egypt @ (HA-AS)**

Spring. 4 credits. A. Bekerie.

Focuses on Nile Valley civilizations and their contributions to African and world history. Since natural and human resources provide the foundation for civilizations, the course also examines the ecological and cultural compositions of the river. Concentrates on the Aksumite civilization of Ethiopia, Nubian civilizations of the Sudan, and the Kemetic civilizations of Egypt. Uses archaeological, literary, oral, biological, and religious sources to study civilization centers along the Nile. Students discuss civilizations as artifacts that have material, spiritual, social, and philosophical dimensions. Students are introduced to the Ethiopic writing system as a practical lesson in the conception and understanding of aspects of African civilizations.

**ASRC 4305 African Environmental History (also HIST 4271) @ (HA-AS)**

Fall. 4 credits. D. Magaziner.

For description, see HIST 4271.

**ASRC 4306 To Be Enslaved Then and Now (also HIST 4421) # (HA-AS)**

Spring. 4 credits. S. Greene.

For description, see HIST 4421.

**ASRC 4502 African Cinema (also ARTH 4578) @ (LA-AS)**

Fall. 4 credits. S. Hassan.

This course offers an overview of African cinema and filmmaking. It surveys historically the evolution of African cinema from its early days to the present. Through screening of

selected African films, different trends within African cinema will be explored, such as "Return to the Sources" and the rediscovery of the pre-colonial past; the "Social Realist" narrative and critique of post-independence Africa; reconstructing the story of colonialism from the perspective of the colonized; and the entertainment genre. Techniques, styles, and aesthetics of African cinema will also be discussed. The course offers a unique opportunity of looking at African culture and society, and at issues of social change, gender, class, tradition, and modernization through African eyes.

**[ASRC 4504 Exhibiting Cultures (also ARTH 4508) (CA-AS)]**

Fall. 4 credits. Next offered 2010–2011. C. Finley.]

**ASRC 4508 The Harlem Renaissance (also ENGL 4508) (LA-AS)**

Fall. 4 credits. R. Richardson.

In this course, we will examine the Harlem Renaissance, including works by James Weldon Johnson, Jean Toomer, Nella Larsen, Langston Hughes, Countee Cullen, George Schuyler, Wallace Thurman, and Zora Neale Hurston. The Harlem Renaissance occurred during the 1920s in the wake of the Great Migration to the urban North. It encompassed a range of other art forms and media beyond literature, such as painting, photography, and music and coincided with the "Jazz Age." We will consider the rise of Josephine Baker as a phenomenon in Paris. We will consider overlapping literary movements that also shaped the Harlem Renaissance profoundly, from modernism to Negritude (i.e., in France and the Caribbean). Additionally, we will explore the work of noted photographers, artists and musicians of the period.

**ASRC 4509 Toni Morrison's Novels (also ASRC 6513, ENGL 4509)**

Spring. 4 credits. R. Richardson.

The course will focus on reading novels by Toni Morrison, including *The Bluest Eye*, *Sula* (1973), *Song of Solomon* (1977), *Beloved* (1987), *Jazz* (1992), *Paradise* (1998), *Love* (2003), and *A Mercy* (2008). The presentation of her novels in trilogy form and her contributions to the genre of historical writing will be given some consideration. We will explore the author's stylistic innovation and expansion of this genre. We will consider topics such as how to read novels critically. We will pursue our study with attention to major public works of Morrison, from her art project as a curator at the Louvre to the Toni Morrison Society's "Bench by the Road" project and its 2008 conference in Charleston, South Carolina and upcoming Paris meeting in summer 2010.

**ASRC 4600 Politics and Social Change in the Caribbean @ (SBA-AS)**

Fall. 4 credits. L. Edmondson.

Study of the historical, geostrategic, political, economic, and social (including racial and cultural) forces affecting the domestic and international experiences of Caribbean societies.

**[ASRC 4601 Education Innovation in Africa and the Diaspora (also EDUC 4590) @ (SBA-AS)]**

Fall. 4 credits. Next offered 2010–2011. N. Assié-Lumumba.

This course deals with educational innovations geared to promoting equal opportunity based on gender, race and class, in Africa and the African Diaspora.]

**ASRC 4602 Women and Gender Issues in Africa @ (SBA-AS)**

Spring. 4 credits. N. Assié-Lumumba.

There are two contrasting views of the status and role of women in Africa. One view portrays African women as dominated and exploited by men. According to another view women have a favorable social position in Africa; indigenous ideologies consider women to be the foundation of society, they are economically active and independent and they have an identity independent of men. In this seminar we discuss the status and role of women in Africa historically as well as in the contemporary period. Topics include women in nonwesternized/precolonial societies; the impact of colonial policies on the status of women; gender and access to schooling, participation in the economy and politics; women and the law; women and health issues; gender issues in southern Africa; womanism and feminism; the United Nations Decade of Women; and the four World Conferences on Women (Mexico 1975, Copenhagen 1986, Nairobi 1985, and Beijing 1995).

**ASRC 4603 Politics and Social Change in Southern Africa @ (SBA-AS)**

Spring. 4 credits. L. Edmondson.

Focuses on the legacies of apartheid and the challenges of transformation toward a post-apartheid society in South Africa. Topics include the rise and decline of apartheid; the historical continuity of Black resistance against racism; women under, against, and after apartheid; South Africa's relations with its neighbors; geo-political, economic, and racial dimensions of the American connection; politics of negotiation and transition to majority rule; prospects for stability, democracy, and equality; and South Africa's new role in the African continental and global arenas. Instructor's lectures are supplemented by films and class discussions.

**ASRC 4605 Public Policy and the African-American Urban Community (SBA-AS)**

Spring. 4 credits. J. Turner.

The socioeconomic conditions of the African-American urban community are the central focus of the course. Community development models are explored in relationship to the social needs of the African-American population. The changing configuration of internal organization of the African American community nationally is examined.

**[ASRC 4606 The Family and Society In Africa (also SOC 4780) @ (SBA-AS)]**

Fall, summer. 4 credits. Next offered 2010–2011. N. Assié-Lumumba.

Concepts of the nuclear and extended family, the roles, rights and obligations of different age groups and generations; and marriage and its related issues.]

**ASRC 4607 African Port Cities: Empire Building at the Crossroads (also ARTH/SHUM 4825)**

Fall. 4 credits. P. Meier.

For description, see SHUM 4825.

**ASRC 4900–4901 Honors Thesis**

4900, fall; 4901, spring. Prerequisite: permission of ASRC director of undergraduate studies. Africana Center faculty.

For senior Africana Studies majors working on honors theses, with selected reading, research projects, etc., under the supervision of a

member of the Africana Studies and Research Center faculty.

**ASRC 4902–4903 Independent Study**

4902, fall; 4903, spring. Africana Studies faculty.

For students working on special topics, with selected reading, research projects, etc., under the supervision of a member of the Africana Studies and Research Center faculty.

**ASRC 4933 Abolitionist Circuits (also ENGL 4073, HIST/SHUM 4933)**

Spring. 4 credits. M. Schoolman.

For description, see SHUM 4933.

**ASRC 6200 Politics of Global Africa (also ASRC 3200)**

Fall. 4 credits. A. Mazrui.

For description, see ASRC 3200.

**ASRC 6206 Islam in Africa and Its Diaspora (also ASRC 4201, DSOC 4360/6630, NES 6710)**

Spring. 4 credits. A. Mazrui.

For description, see ASRC 4201.

**ASRC 6207 Black Feminist Theories (also ENGL/FGSS 6207, COML 6465)**

Fall. 4 credits. C. Boyce Davies.

This course examines black feminist theories, paying particular emphasis on the cross-cultural experiences of women as expressed both theoretically and creatively. It follows the chronologies and variations of modern black feminisms, beginning with the U.S. articulations and moving toward how particular feminist positions are constructed and theorized in other locations across the African diaspora such as Black British feminism, Caribbean feminism, African feminism. Thus we will explore the various theories and texts within their sociopolitical and geographical frames and locations, analyzing these as appropriate against or in relation to a range of feminist activism and movements.

**ASRC 6301 African American Politics (also ASRC 4300)**

Fall. 4 credits. J. Turner.

For description, see ASRC 4300.

**ASRC 6304 Marriage and Divorce in the African Context (also FGSS 6304)**

Fall. 4 credits. J. Byfield.

Marriage was the widely expected norm within African societies. The institution was an important marker of adulthood, linking individuals and lineages in a network of mutual cooperation and support. Marriage practices and their concomitant gender expectations varied significantly between societies, and over time. As a result, marriage and divorce are especially rich terrain for exploring social history, women's agency, discursive constructions of "woman," masculinity, and gender relations of power. This course explores some of the newest scholarship on marriage by Africanist scholars. The readings demonstrate the wide cultural variety in marriage as well as the dynamic relationship between marriage and historical change. They especially highlight women's roles and expectations in marriage, masculinity and the ways men and women negotiated the rules and boundaries of marriage.

**ASRC 6305 Dress, Cloth, and Identity: Africa and the Diaspora (also ARTH 6305)**

Spring. 4 credits. J. Byfield.

This course uses a multidisciplinary approach to examine the importance of textiles in African social and economic history. It combines art history, anthropology, social and economic history to explore the role of textiles in marking status, gender, political authority and ethnicity. In addition, we examine the production and distribution of indigenous cloth and the consequences of colonial rule on African textile industries. Our analysis also considers the principles of African dress and clothing that shaped the African diaspora in the Americas as well as the more recent popularity and use of African fabrics and dress in the United States.

**ASRC 6400 Africana Thought (also ENGL 6401)**

Fall. 4 credits. G. Farred.

What kind of thinking is being and has been produced, historically by figures in Africana philosophy? Intention of course is not—though that may a collateral effect—to argue against those who naysay the existence of Africana philosophy nor is it to “define” the field, as if such a project were even possible. “Africana Thought” will, instead, seek to engage those thinkers who produce this philosophy. The readings will run from the “Confessions” of St. Augustine through Alexander Crummell’s musings to Valentin Mudimbe’s “The Invention of Africa,” from intense reflections on the condition of black subjugation that is Frantz Fanon’s writing to locating Jacques Derrida as a philosopher of the Maghreb. Course about Africana philosophy as a project that persistently questions itself.

**ASRC 6401 The Politics of Theory (also ENGL 6402, FREN 6401)**

Spring. 4 credits. G. Farred.

There is an old and hoary chestnut that pits theory against politics, presuming, arguing, that theory is not, has no, politics. This course is not designed to either rebut or ignore that antagonism. Instead, the intent here is simply to read a range of theorists, from John Stuart Mill (“On Liberty”) to Alain Badiou, to think how the politics of theory and the theory of politics. Badiou, Mill, Carl Schmitt and Jacques Ranciere, never shy away from their sense of the political. If anything, this course will delight in how unreflectively these thinkers take the matter of politics. In fact, and here Schmitt is crucial, at issue will be: how could we not think our politics theoretically?

**ASRC 6506 African Aesthetics (also ARTH 5571)**

Spring. 4 credits. S. Hassan.

The goal of this course is to investigate in depth the principles of aesthetics and philosophy of African visual arts. The course offers a critical survey of the different writings and the growing body of research on this relatively new area of inquiry. The objectives of the course are to review how African aesthetics have been studied to date, to provide a critical analysis of the different approaches to the subject and related issues, and to suggest future directions of research. In-depth analysis of particular African societies is used to examine the relationship of arts and aesthetics to indigenous concept of time, space, color, form, and sociopolitical order. In addition, issues related to African aesthetics and arts such as style, gender, class, and social change are also explored.

**ASRC 6513 Toni Morrison’s Novels (also ASRC 4509)**

Spring. 4 credits. R. Richardson.

For description, see ASRC 4509.

**ASRC 6600 Education and Development in Africa**

Spring. 4 credits. N. Assié-Lumumba.

Human capital theory establishes a positive and linear relationship between formal education and individual productivity and socioeconomic attainment and economic growth and development of nations. While enjoying considerable popularity in industrial and developing countries, including African countries, education has also been perceived as a hindrance to development. The concept of human capital and paradigms of development including modernization, dependency, and Third World Forum are first introduced. Specific issues discussed include schooling and nonformal education; the role of primary, secondary, and higher education in development; and language, access, output, and outcome based on social class, ethnicity, race, and gender. Employment, migration and international brain drain, the information and communication technologies, indigenous knowledge systems, and the role of higher education in regional and international cooperation are also examined.

**ASRC 6606 Politics of the Hip-Hop Generation**

Spring. 4 credits. T. Gosa.

This graduate seminar investigates the political dynamics of the hip-hop generation. The primary focus of this course will be the major political and economic forces that have shaped the worldview of Black and Latino/a youth born between 1965 and 1984. Students will critically address major topics surrounding hip-hop including race-ethnicity, gender and sexuality, social class, segregation/mass-incarceration, politics, and education. After reviewing the socio-historical development of hip-hop, we will examine the role of hip-hop in modern black politics and activism, including its significance for mobilizing youth. Special attention will be given to the generational gap between the hip-hop generations and the Civil-Rights/Black Power parents.

**ASRC 6900-6901 Independent Study**

6900, fall; 6901, spring. Variable credit.

Prerequisite: graduate standing. Africana Studies faculty.

**ASRC 6902-6903 Africana Studies Graduate Seminar**

6902, fall; 6903, spring. 4 credits. Africana Studies faculty.

Designed for first-year ASRC graduate students. The seminar is coordinated and supervised by one professor but team-taught by three or four faculty members per semester. Each participating faculty member is responsible for a topical segment of the course related to her or his areas of specialization or an area of interest pertaining to theory and methodology of Africana Studies.

**ASRC 8900-8901 Thesis**

8900, fall; 8901, spring. Prerequisite: ASRC graduate students. Africana Studies faculty.

## AMERICAN STUDIES

M. C. Garcia, acting director; G. Altschuler, E. Baptist, R. Bensel, M. P. Brady, D. Chang, E. Cheyfitz, J. Cowie, J. Frank, J. E. Gainer, M. C. Garcia, F. Gleach, S. Haenni, A. Hammer, R. Harris, M. Jones-Correa, K. Jordan, K. Kassam, M. Katzenstein, J. Kirschner, R. Kline, I. Krannick, C. Lai, F. Logevall, T. J. Lowi, B. Maxwell, K. McCullough, L. L. Meixner, R. Mize, R. L. Moore, V. Nee, M. B. Norton, J. Parmenter, R. Polenberg, S. Pond, A. Sachs, N. Salvatore, S. Samuels, M. E. Sanders, V. Santiago-Irizarry, M. Shefter, A. M. Smith, S. Villenas, M. Washington, S. Wong, M. Woods, D. Woubshet. Affiliated faculty: J. E. Bernstock, M. Hatch, J. Jennings, J. Peraino, P. Sawyer. Emeritus: S. Blumin, J. Brumberg, M. Kammen, D. E. McCall, J. Silbey

### The Major

The major in American Studies, appropriate for a wide array of future professions, began as a program of coordinated study in the history, literature, and politics of the United States. These remain the core elements, but American Studies aims to be inclusive in its subject matter. Given the nation’s diverse population and cultures, the program wants its majors to examine American experience in broad terms, drawing on the materials and methods of a variety of disciplines.

Students who contemplate becoming American Studies majors are encouraged to speak with the program director as early as possible to arrange for a major advisor.

All students majoring in American Studies must take a minimum of 12 courses selected from the American Studies roster, completing them with a grade of C or better. No more than six of these courses can come from any one discipline. Of the 12 courses at least three must have a substantial focus on material before 1900, at least two must deal with American diversity (AMST 1109 and 1110 are especially recommended), and at least one must be a 4000-level seminar, either one of the American Studies 4300 course range (4300-4399) or an appropriate substitute seminar at the 4000 level (AMST 4997/4998, taught in Washington, D.C., does not fulfill the seminar requirement though it counts as one course toward the major). Note: A single course may satisfy more than one of these requirements: e.g., a course on Native Americans in the 1800s is both a course dealing substantially with pre-1900 material and one dealing with American diversity.

Although a good bit of freedom is encouraged in the selection of courses, American Studies majors, in consultation with their advisor, must define an area of concentration and complete six courses in that area. The area of concentration can be designed to fit the particular interests of a student, but it must include subjects in at least two disciplines. Possible areas of concentration include “visual studies,” “cultural studies,” “race and ethnicity,” “legal and Constitutional studies,” “American institutions,” “class and social structure,” “the American environment.” (Courses taken to satisfy the concentration may be used to fulfill other requirements for the major.)

Students may find courses relevant to American experience that they wish to take but that are not on the American Studies course list. With their advisor’s approval,

students may count two such courses toward fulfilling the major.

## Honors

Candidates for honors must maintain an average of B+ in courses pertinent to the major and have taken at least one course in which they wrote a research paper. Normally, at the end of the junior year students who wish to write a senior honors essay must approach a member of the American Studies faculty and discuss their ideas for a project. With approval from the faculty member students may then register in the fall of their senior year for AMST 4993, the honors essay tutorial. At the end of the fall semester, honors candidates meet with their advisor and a second member of the American Studies faculty to discuss their progress. If satisfactory, honors students complete their honors essays in the spring by enrolling in AMST 4994.

Category Key: Courses in American Studies are broken into different categories. To determine which category (ies) a course falls in, please note the reference at the end of each course description. The key is as follows: ASE = Anthropology, Sociology, and Economics, LT = Literature and Theatre Arts, GP = Government and Public Policy, HI = History, MV = Music and Visual Studies, HR = Honors, Reading and Research.

## American Studies 4300 Seminars

### AMST 4300 The Milman Seminar

Fall. 4 credits. Prerequisite: permission of instructor. G. C. Altschuler.

The Milman Seminar: Baseball in American Culture. Through a reading of fiction and nonfiction, we examine the role of baseball as it has shaped and reflected the attitudes and values of Americans. Novels assigned in the course include Bernard Malamud, *The Natural*; Mark Harris, *Bang the Drums Slowly*; Philip Roth, *The Great American Novel*; and Robert Coover, *The Universal Baseball Association*. Nonfiction works may include Neil Lanctot, *Negro League Baseball*, Roger Kahn, *The Boys of Summer*, and Andrew Zimbalist, *Baseball and Billions*. Each student in the course writes a 25- to 35-page research paper. (HI)

### AMST 4301 The Rabinor Seminar (also ENGL 4301)

Spring. 4 credits. Prerequisite: permission of instructor. M. P. Brady.

The Rabinor Seminar explores the role of diversity in the formation of a distinct American tapestry. The specific topic varies each year, but the general subject is the promise and experience of pluralism. Topic for spring 2010: Queering Latinidad. This course will examine queer Latina and Latino literature, film, and art. Beginning with John Rechy's stunning novel about sex work, *City of Dreams*, and continuing with the theoretical and literary transformations wrought by Cherrie Moraga and Gloria Anzaldúa, this course explores the relationship between sex, desire, revolution, and belonging in the work of Luz Marie Umpierre, Rafael Campos, Luis Alfaro, Marga Gomez, Laura Aguilar, Frances Negron-Mutaner, and many others. We will also take up the theoretical terrain outlined by Jose Munoz, Maja Horn, and Yvonne Yarbro-Bejaranno. This course will entail extensive reading and two longer papers. (LT)

### AMST 4303 Literature as History: The Americas (also ENGL 4303)

Fall. 4 credits. B. Maxwell.

Beginning with William Carlos Williams's *In the American Grain* (1925), this course will consider modernist innovations in the telling of history by literary means. Responding to what they felt as the "deadness" of conventional historiography, writers such as Williams, Charles Reznikoff, John Sanford, Muriel Rukeyser, Melvin Tolson, and Paul Metcalf produced imaginative American histories that made a new world of historical narration, and in the process found new objects of historical attention, one of which was the plural, transnational America of the hemispheric Americas. This reconfiguration anticipated and in some cases shaped recent revisionist critiques of the European presence on American soil (Eduardo Galeano, Leslie Marmon Silko, David Stannard, Ward Churchill, Noam Chomsky, Ana Castillo); accordingly, students will read examples, some polemical, of that later work. (LT)

### AMST 4306 Topics in American Studies (also ARTH/VISST 4761)

Fall and spring. 4 credits. Prerequisite: permission of instructor. Not open to freshmen. L. L. Meixner.

Topic for Fall 2009: Public art and popular entertainments as the means for everyday people to politically engage or escape the Great Depression (1929–41). Discussions include Living Newspapers, the Federal Theater Project, Union-sponsored theater including Pins and Needles, WPA muralists and printmakers, FSA photographers, Social Realists including Ben Shahn, Reginald Marsh, and Philip Evergood, alongside Grant Wood and the Regionalists. Connecting these is FDR's New Deal and its controversial government support for the arts. We consider Big Bands and swing, pulp and comic strips, star tabloids, Depression-era Hollywood gangster films, "screwball" comedies, and Fred Astaire and Ginger Rogers spectacles. Will examine the importance of early radio in the home through FDR's fireside chats, soap operas, and serial thrillers such as the *Shadow*. Students will draw on the American Memory Project, documentaries, and the Johnson Art Museum collections. Films include *It Happened One Night*, *Gay Divorcee*, *Double Indemnity*, and Woody Allen's *Radio Days*. (MV)

Topic for spring 2010: American Art and the Machine. Seminar examines early modernism in America with emphases on the machine, mechanical reproduction, and the moving image including film and television. Machine is defined in broad terms to mean the artist, city, camera, department store, and consumer by-products including pictorial monthlies such as *Life*, fan magazines, fashion magazines, and comic books. Themes include the comic body in silent film; photography and social surveillance; early cinema and working-class women; the Great Depression and Broadway theatre; Depression-era "screwball comedies"; women and urban consumption; comic books and censorship; the construction of gender and the "American family" in early TV sitcoms including *Leave it to Beaver* and *Father Knows Best*; TV ads and the American homemaker; and 1940s "women's films." Artists include the Ashcan School, Hine, Lange, Evans, and Charlie Chaplin, Alfred Hitchcock, and Bette Davis. Films include *Modern Times*, *Rear Window*, *Dark Victory*, and *Sorry, Wrong Number*. (MV)

### [AMST 4310 Topics in American Studies: American Politics and Dissent, 1945 to 2000 (also HIST 4311)]

4 credits. Permission of instructor required. Next offered 2011–2012. N. Salvatore.

This course will examine the Civil Rights movement, anti-Vietnam protests, a revitalized conservative politics, and the re-emergence of an evangelical presence in American politics, with particular focus on the electoral process after 1964. A series of papers, and a term paper are required. (HI)

### AMST 4390 Reconstruction and the New South (also HIST 4390/6391) # (HA-AS)

Fall. 4 credits. M. Washington.

This course focuses on the American South in the 19th century as it made the transition from Reconstruction to new forms of social organization and patterns of race relations. Reconstruction will be considered from a sociopolitical perspective, concentrating on the experiences of the freed people. The New South emphasis will include topics on labor relations, economic and political changes, new cultural alliances, the rise of agrarianism, and legalization of Jim Crow. (HI)

## Courses

### AMST 1101 Introduction to American Studies # (CA-AS)

Spring. 4 credits. B. Maxwell.

This course is an introduction to interdisciplinary considerations of American culture. We will reflect on topics ranging from Native American relations to the land, to the European conquest of the Americas, to the development of American civic life and political culture and the ongoing African American struggle for freedom and equality. We will also study immigration as a (threatened) constant in national life and labor, the distinctions between mass culture and popular culture, the promise of American life, and violence as a persisting national woe. We'll examine these themes through literature, historical writing, music, art, film, architecture, and political economy in the United States. The course will also give attention to the many methods through which scholars have, over time, developed the discipline of American Studies, and to ongoing debates over the intellectual and political stakes of those methods. (LT)

### [AMST 1109 Introduction to American Studies: New Approaches to Understanding American Diversity, the 19th Century # (HA-AS)]

4 credits. Next offered 2010–2011. N. Salvatore. (HI)

### [AMST 1110 Introduction to American Studies: New Approaches to Understanding American Diversity, the 20th Century (HA-AS)]

4 credits. Next offered 2010–2011. M. C. Garcia and D. Chang. (HI)

### AMST 1240 Democracy and Its Discontents: Political Traditions in the United States (also HIST 1240) (HA-AS)

Summer. 3 credits. N. Salvatore.

An examination of democracy and its critics. The course explores the evolution of democracy in America, focusing on some of the dramatic and important episodes in American history. It considers the struggles over the emancipation of slaves in the 19th

century and expanded rights for women and working people in the 20th century, free-speech issues, the civil-rights movement, religious-based critiques of American culture, and conservative critiques of American liberalism. The course serves as an investigation of the ways in which political expression takes forms in modern American culture. In addition to lectures, the course features several afternoon programs that include guest lecturers and hands-on instruction in how to use the modern electronic research library. (HI)

**[AMST 1311 Popular Music in America: A Historical Survey (also MUSIC 1311) # (LA-AS)]**

3 credits. Next offered 2011-2012. S. Pond. For description, see MUSIC 1311. (MV)

**AMST 1312 History of Rock Music (also MUSIC 1312) (LA-AS)**

Spring. 3 credits. J. Peraino. For description, see MUSIC 1312. (MV)

**AMST 1313 A Survey of Jazz (also MUSIC 1313) (LA-AS)**

Fall. 3 credits. S. Pond. For description, see MUSIC 1313. (MV)

**AMST 1530 Introduction to American History (also HIST 1530) # (HA-AS)**

Fall. 4 credits. M. B. Norton. For description, see HIST 1530. (HI)

**AMST 1531 Introduction to American History: 1865-Present (also HIST 1531) (HA-AS)**

Spring. 4 credits. A. Sachs. For description, see HIST 1531. (HI)

**AMST 1600 Introduction to American Indian Studies I (also AIS 1100) (HA-AS)**

Fall. 3 credits. P. Nadasdy. For description, see AIS 1100. (HI)

**AMST 1601 Introduction to American Indian Studies II (also AIS 1110) (CA-AS)**

Spring. 4 credits. K. Kassam. For description, see AIS 1110. (HI)

**[AMST 2010 Popular Culture in the United States, 1900 to 1945 (HA-AS)]**

4 credits. Next offered 2010-2011. G. Altschuler.

AMST 2010 deals with American popular culture in the period between 1900 and the end of World War II. As we examine best-sellers, films, sports and television, radio, ads, newspapers, magazines, and music, the goal is to better understand the ways in which popular culture as "contested terrain," the place where social classes, racial and ethnic groups, women and men, the powerful and the less powerful, seek to "control" images and themes. Topics include: the Western; Cultural Heroes and the Cult of Individualism in the 1920s; The Hays Code and the Black Sox scandal; Mae West and the "New Women"; Advertising in an Age of Consumption; Gangsters and G-Men; and Jackie Robinson and the American Dilemma. (HI)

**[AMST 2020 Popular Culture in the United States, 1950 to Present (HA-AS)]**

4 credits. Next offered 2010-2011. G. Altschuler.

AMST 2020 treats the period from 1950 to the present as we examine best-sellers, films, sports and television, radio, ads, newspapers, magazines, and music. We try to better understand the ways in which popular culture

shapes and/or reflects American values. The course also depicts popular culture as "contested terrain," the place where social classes, racial and ethnic groups, women and men, the powerful and less powerful, seek to "control" images and themes. Topics include: *The Honeymooners* and 1950s television, soap operas; "gross-out" movies; Elvis; the Beatles and Guns 'n Roses; gothic romances; and *People Magazine* and *USA Today*.]

**AMST 2022 The Court, Crime, and the Constitution (also HIST 2020) (HA-AS)**

Fall. 4 credits. R. Polenberg. For description, see HIST 2020. (HI)

**AMST 2030 Introduction to American Literature (also ENGL 2030) # (LA-AS)**

Fall. 4 credits. L. Donaldson. For description, see ENGL 2030. (LT)

**[AMST 2033 Wilderness in North American History and Culture (also HIST 2030) # (HA-AS)]**

4 credits. Next offered 2010-2011. A. Sachs. For description, see HIST 2030. (HI)

**AMST 2040 Introduction to American Literature (also ENGL 2040) (LA-AS)**

Spring. 4 credits. J. Braddock. For description, see ENGL 2040. (LT)

**AMST 2060 The Great American Cornell Novel (also ENGL 2060) (LA-AS)**

Spring. 4 credits. M. Hite. For description, see ENGL 2060. (LT)

**[AMST 2090 Seminar in Early America (also FGSS/HIST 2090) # (HA-AS)]**

4 credits. Limited to 20 students. Next offered 2010-2011. M. B. Norton. (HI)

**AMST 2100 Progressive Reform in America, 1900-1940**

Fall. 4 credits. Limited to 15 students. Priority given to sophomores. N. Salvatore. This course looks at progressive reform from the early 20th century to the edge of World War II. We will look at politics, the impact of world war, contesting ideologies, the role of the corporation, and the evolving meaning of liberalism through a variety of movements and individuals. Short essays and a research paper required. (HI)

**[AMST 2105 The American Musical (also ENGL/THETR 2150, MUSIC 2250) (LA-AS)]**

3 credits. Next offered 2010-2011. N. Salvato. For description, see THETR 2150. (MV)

**[AMST 2110 Black Religious Traditions: Sacred and Secular (also HIST/RELST 2110) (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011. M. Washington.]

**[AMST 2120 African American Women: 20th Century (also FGSS/HIST 2120) (HA-AS)]**

4 credits. Next offered 2010-2011. M. Washington. (HI)

**[AMST 2150 Comparative American Literature (also COML 2150) (LA-AS)]**

Fall. 4 credits. Next offered 2011-2012. B. Maxwell.]

**[AMST 2200 Travel in American History and Culture (also HIST 2200) (HA-AS)]**

4 credits. Next offered 2010-2011. A. Sachs. (HI)

**[AMST 2211 Seminar: The Blues and American Culture (also HIST 2211) (HA-AS)]**

4 credits. Next offered 2010-2011. R. Polenberg. (HI)

**[AMST 2250 The U.S.-Mexico Border: History, Culture, Representation (also HIST/LSP 2250) (CA-AS)]**

4 credits. Next offered 2010-2011. M. C. Garcia.]

**[AMST 2300 Latino Communities (also DSOC/LSP 2300) (SBA-AS)]**

3 credits. Next offered 2011-2012. R. Mize. For description, see DSOC 2300. (ASE)]

**AMST 2350 Archaeology of North American Indians (also AIS 2350, ANTHR/ARKEO 2235) # (HA-AS)]**

Spring. 4 credits. K. Jordan. For description, see ANTHR 2235. (ASE)

**[AMST 2360 Native People of the Northeast (also AIS/HIST 2360) # (HA-AS)]**

4 credits. Next offered 2011-2012. J. Parmenter. (HI)

**[AMST 2390 Seminar in Iroquois History (also HIST 2390) # (HA-AS)]**

4 credits. Next offered 2011-2012. J. Parmenter. (HI)

**AMST 2401 Introduction to Latino/a Literature (also ENGL/LSP 2400) (LA-AS)**

Fall. 4 credits. M. P. Brady. For description, see ENGL 2400. (LT)

**[AMST 2420 Religion and Politics in American History from J. Winthrop to R. Reed (also HIST/RELST 2420) (HA-AS)]**

4 credits. Prerequisite: permission of instructor. Next offered 2010-2011. R. L. Moore. (HI)

**AMST 2440 The United States in Vietnam (also HIST 2440) (HA-AS)**

Spring. 4 credits. F. Logevall. For description, see HIST 2440. (HI)

**AMST 2501 Race and Popular Culture (also HIST 2510) (HA-AS)]**

Fall. 4 credits. M. Washington. For description, see HIST 2510. (HI)

**[AMST 2510 20th-Century Women Writers (also ENGL/FGSS 2510) (LA-AS)]**

4 credits. Next offered 2010-2011. E. DeLoughrey. For description, see ENGL 2510. (LT)]

**[AMST 2520 Late 20th-Century Women Writers and Visual Culture (also ENGL 2520)]**

4 credits. Next offered 2011-2012. (LT)]

**AMST 2599 Latinos in the United States: Colonial Period to 1898 (also HIST/LSP 2600) # (HA-AS)]**

Fall. 4 credits. M. C. Garcia. For description, see HIST 2610. (HI)

**[AMST 2600 Introduction to American Indian Literature in the United States (also ENGL 2600) (LA-AS)]**

4 credits. Next offered 2010-2011. E. Cheyfitz. (LT)]

**[AMST 2610 Latinos in the United States: 1898 to the Present (also HIST/LSP 2610) (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011. M. C. Garcia. For description, see HIST 2610. (HI)]

**AMST 2620 Asian American Literature (also AAS/ENGL 2620) (LA-AS)**

Spring. 4 credits. S. Wong.  
For description, see ENGL 2620. (LT)

**AMST 2640 Introduction to Asian American History (also AAS 2130, HIST 2640) (HA-AS)**

Fall. 4 credits. D. Chang.  
For description, see HIST 2640. (HI)

**AMST 2650 Introduction to African American Literature (also ENGL 2650) (CA-AS)**

Fall. 4 credits. D. Woubshet.  
For description, see ENGL 2650. (LT)

**[AMST 2660 Introduction to Native American History (also AIS/HIST 2660) (HA-AS)]**

4 credits. Next offered 2011–2012.  
J. Parmenter. (HI)]

**AMST 2680 Culture and Politics of the 1960s (also ENGL 2680) (CA-AS)**

Fall. 4 credits. P. Sawyer.  
For description, see ENGL 2680. (LT)

**AMST 2710 Social and Political Context of American Education (also EDUC/SOC 2710) (SBA-AS)**

Fall. 4 credits. J. Sipple.  
For description, see EDUC 2710. (ASE)

**AMST 2720 The Atlantic World from Conquest to Revolution (also HIST 2720) # (HA-AS)**

Spring. 4 credits. M. B. Norton.  
For description, see HIST 2720. (HI)

**[AMST 2721 Anthropological Representation: Ethnographies of Latino Culture (also ANTHR/LSP 2721) (CA-AS)]**

3 credits. Next offered 2011–2012.  
V. Santiago-Irizarry. (ASE)]

**[AMST 2730 Women in American Society, Past and Present (also FGSS/HIST 2730) # (HA-AS)]**

4 credits. Next offered 2010–2011.  
M. B. Norton. (HI)]

**AMST 2760 Survey of American Film (also FILM 2760, VISST 2300) (LA-AS)**

Spring. 4 credits. Each student must enroll in a section and attend one screening per week. S. Haenni.

Focusing mostly on Hollywood film, this course surveys some major developments in and approaches to 20th-century American cinema. We trace changes in film aesthetics and film style, the development of the American cinema as an institution that comprises an industrial system of production, social and aesthetic norms and codes, and particular modes of reception. The course introduces methodological issues in American film history—especially questions of narrative, genre, stardom, and authorship—and focuses on the ways film shapes gender, race, class, ethnic, and national identities. Screenings include work by D. W. Griffith, John Ford, Howard Hawks, Alfred Hitchcock, and others and are supplemented by readings in film criticism and history. (LT)

**AMST 2820 Photography and the American Landscape (also LA 2820)**

Fall. 3 credits. A. Hammer.  
For description, see LA 2820. (MV)

**AMST 2980 Inventing an Information Society (ECE/ENGRG 2980, HIST 2920, STS 2921) (HA-AS)**

Spring. 3 credits. R. Kline.  
For description, see ECE 2980. (HI)

**[AMST 3003 Working-Class America in Mass Media and Popular Culture (also ILRCB 3030)]**

3 credits. Next offered 2011–2012. J. Cowie.  
For description, see ILRCB 3030. (HI)]

**[AMST 3030 African American Women in Slavery and Freedom (also FGSS 3070, HIST 3030) # (HA-AS)]**

4 credits. Next offered 2010–2011.  
M. Washington.]

**[AMST 3031 Imagining America (also GOVT 3031) (CA-AS)]**

4 credits. Next offered 2011–2012.  
D. Rubenstein. (GP)]

**[AMST 3050 Americans Abroad (CA-AS)]**

Spring. 4 credits. Next offered 2011–2012.  
S. Haenni.

Focuses on how fiction and film, from the 19th century to the present, have depicted Americans abroad. (LT)]

**[AMST 3060 History of American Workers: 1960 to 1990s (also ILRCB 3060)]**

3 credits. Next offered 2011–2012. J. Cowie.  
For description, see ILRCB 3060. (HI)]

**[AMST 3090 The Cinema and the American City (CA-AS)]**

4 credits. Next offered 2011–2012.  
S. Haenni. (HI)]

**AMST 3102 Asian American Politics and Public Policy (also AAS 3901, CRP 3102/6107, AMST 6107) (CA-AS)**

Spring. 3 credits. C. Lai.  
For description, see CRP 3102. (GP)

**[AMST 3111 Urban Politics (also GOVT 3111) (SBA-AS)]**

4 credits. Next offered 2011–2012.  
M. Shefter. (GP)]

**AMST 3128 Americas Changing Faces (also GOVT 3128)**

Summer only. 2 credits. Offered in Cornell in Washington Summer Program.  
S. Jackson.  
For description, see GOVT 3128.

**[AMST 3130 U.S. Foreign Relations, 1750–1912 (also HIST 3130) # (HA-AS)]**

4 credits. Next offered 2010–2011.  
F. Logevall. (HI)]

**AMST 3140 History of American Foreign Policy 1912 to the Present (also HIST 3140) (HA-AS)**

Spring. 4 credits. F. Logevall.  
For description, see HIST 3140. (HI)

**[AMST 3141 Prisons (also GOVT 3141) (SBA-AS)]**

4 credits. Next offered 2011–2012.  
M. Katzenstein.  
For description, see GOVT 3141. (GP)]

**AMST 3150 Environmental History: The United States and Beyond (also HIST 3150) # (HA-AS)**

Fall. 4 credits. A. Sachs.  
For description, see HIST 3150. (HI)

**[AMST 3161 The American Presidency (also GOVT 3161) (SBA-AS)]**

4 credits. Next offered 2011–2012.  
M. E. Sanders.  
For description, see GOVT 3161. (GP)]

**[AMST 3170 British–French North America (also HIST 3170) # (HA-AS)]**

4 credits. Next offered 2011–2012.  
J. Parmenter.  
For description, see HIST 3170. (HI)]

**[AMST 3171 Campaigns and Elections (also GOVT 3171) (SBA-AS)]**

4 credits. Next offered 2011–2012. P. Enns.  
For description, see GOVT 3171. (GP)]

**[AMST 3180 American Constitutional Development (also HIST 3180) (HA-AS)]**

4 credits. Next offered 2010–2011.  
R. Polenberg. (HI)]

**AMST 3181 The U.S. Congress (also GOVT 3181) (SBA-AS)**

Spring. 4 credits. M. Shefter.  
For description, see GOVT 3181. (GP)

**[AMST 3191 Racial and Ethnic Politics (also GOVT/LSP 3191) (SBA-AS)]**

4 credits. Next offered 2010–2011.  
M. Jones-Correa. (GP)]

**[AMST 3210 Colonial North America to 1763 (also HIST 3210) # (HA-AS)]**

4 credits. Next offered 2010–2011.  
M. B. Norton. (HI)]

**AMST 3230 American Economic History (also ECON 3230) # (SBA-AS)**

Fall. 4 credits. T. Lyons.  
For description, see ECON 3230. (ASE)

**[AMST 3240 Varieties of American Dissent, 1880 to 1990 (also HIST 3240) (HA-AS)]**

4 credits. Next offered 2011–2012.  
N. Salvatore. (HI)]

**[AMST 3241 Inequality and American Democracy (also GOVT 3241) (SBA-AS)]**

4 credits. Next offered 2011–2012.  
S. Mettler.  
For description, see GOVT 3241. (GP)]

**[AMST 3248 Iroquois Archaeology (also AIS/ANTHR/ARKEO 3248) # (HA-AS)]**

4 credits. Next offered 2011–2012.  
K. Jordan. (ASE)]

**[AMST 3250 Age of the American Revolution, 1754 to 1815 (also HIST 3250) # (HA-AS)]**

4 credits. Next offered 2010–2011.  
M. B. Norton. (HI)]

**AMST 3251 History of the Family in the United States (also FGSS/HIST 3251) (HA-AS)**

Spring. 4 credits. T. Carroll.  
For description, see HIST 3251. (HI)

**[AMST 3310 Causes of the American Civil War, 1815 to 1860 (also HIST 3310) # (HA-AS)]**

4 credits. Next offered 2011–2012.  
E. Baptist. (HI)]

**AMST 3330 Ways of Knowing: Indigenous and Local Ecological Knowledge (also AIS/NTRES 3330)**

Fall. 3 credits. K. Kassam.  
For description, see NTRES 3330.

- [AMST 3370 Contemporary American Theatre (also THETR 3370) (LA-AS)]**  
4 credits. Next offered 2011-2012.  
S. Warner.  
For description, see THETR 3370. (LT)]
- [AMST 3400 Recent American History, 1925 to 1965 (also HIST 3400) (HA-AS)]**  
4 credits. Next offered 2011-2012.  
R. Vanderlan.]
- [AMST 3410 Recent American History, 1965 to Present (also HIST 3410) (HA-AS)]**  
4 credits. Next offered 2011-2012.  
Staff. (HD)]
- AMST 3430 American Civil War and Reconstruction, 1860 to 1877 (also HIST 3430) # (HA-AS)**  
Fall. 4 credits. E. Baptist.  
For description, see HIST 3430. (HI)
- AMST 3431 Obama and Lincoln (also HIST 3431) (HA-AS)**  
Fall. 4 credits. E. Baptist.  
For description, see HIST 3431.
- [AMST 3450 Cultural and Intellectual Life of 19th-Century Americans (also HIST 3450) # (HA-AS)]**  
4 credits. Next offered 2010-2011. A. Sachs. (HD)]
- AMST 3460 Modernization of the American Mind (also HIST/RELST 3460) (HA-AS)**  
Fall. 4 credits. R. L. Moore.  
For description, see HIST 3460. (HI)
- AMST 3470 Asian American Women's History (also AAS/FGSS/HIST 3470) (CA-AS)**  
Spring. 4 credits. D. Chang.  
For description, see HIST 3470. (HI)
- [AMST 3480 Film Noir (also FILM 3460, VISST 3146) (LA-AS)]**  
4 credits. Recommended: some course work in film. Next offered 2011-2012.  
S. Haenni.  
Focuses on Hollywood films of the 1940s/1950s known for their stylishness and commentary on the dark side of American life, and on "neo-noir" from the 1970s to the present. (LT)]
- [AMST 3481 Studies of Women's Fiction: Gender, Nature and the Environment (also ENGL/FGSS 3480) (LA-AS)]**  
4 credits. Next offered 2011-2012.  
K. McCullough.  
For description, see ENGL 3480. (LT)]
- AMST 3550 Latinos, Law and Identity (also DSOC/LSP 3550) # (SBA-AS)**  
Fall. 3 credits. R. Mize.  
For description, see DSOC 3550. (ASE)
- [AMST 3570 Engineering in American Culture (also ENGRG/HIST/STS 3570, STS 3571)]**  
4 credits. Next offered 2011-2012. R. Kline.  
For description, see ENGRG 3570. (HI)]
- [AMST 3600 Another World Is Possible: The American Left Since the 1960s (also ENGL 3600) (LA-AS)]**  
4 credits. Next offered 2010-2011.  
P. Sawyer. (LT)]
- AMST 3605 U.S. Art from FDR to Reagan (also ARTH 3605) (LA-AS)**  
Fall. 4 credits. J. E. Bernstock.  
For description, see ARTH 3605. (MV)
- [AMST 3610 Studies in the Formation of U.S. Literature: Emerson to Melville (also ENGL 3610) # (LA-AS)]**  
4 credits. Next offered 2011-2012. D. Fried.  
For description, see ENGL 3610. (LT)]
- [AMST 3620 Studies in U.S. Literature After 1950: Native Daughters Speak (also ENGL 3640) (LA-AS)]**  
4 credits. Next offered 2011-2012.  
L. Donaldson. (LT)]
- [AMST 3630 Studies in U.S. Literature: The Age of Realism and Naturalism (also ENGL/FGSS 3630) (LA-AS)]**  
4 credits. Next offered 2011-2012.  
K. McCullough. (LT)]
- AMST 3640 Studies in U.S. Literature After 1950: American Literature, the 1980s (also ENGL 3640) (LA-AS)**  
Spring. 4 credits. D. Woubshet.  
For description, see ENGL 3640. (LT)
- [AMST 3650 American Literature Since 1945 (also ENGL 3650) (LA-AS)]**  
4 credits. Next offered 2010-2011.  
B. Maxwell. (LT)]
- [AMST 3655 Politics and Literature (also GOVT 3655) (LA-AS)]**  
4 credits. Next offered 2010-2011. J. Frank.  
For description, see GOVT 3655. (GP)]
- [AMST 3660 Studies in U.S. Fiction Before 1900: The 19th-Century American Novel (also ENGL 3660) # (LA-AS)]**  
4 credits. Next offered 2010-2011.  
S. Samuels. (LT)]
- AMST 3665 American Political Thought from Madison to Malcolm X (also GOVT 3665, HIST 3160) # (HA-AS)**  
Fall 4 credits. I. Kramnick.  
For description, see GOVT 3665. (GP)
- AMST 3670 Studies in U.S. Fiction After 1900: 20th-Century American Fiction: Novels and Short Stories in the Americas (also ENGL 3670) (LA-AS)**  
Fall. 4 credits. M. P. Brady.  
For description, see ENGL 3670. (LT)
- [AMST 3708 Topics in U.S. Women's History (also HIST 3780)]**  
4 credits. Next offered 2011-2012.  
M. B. Norton. (HI)]
- AMST 3711 American Poetry to 1950 (also ENGL 3711) (LA-AS)**  
Fall. 4 credits. R. Gilbert.  
For description, see ENGL 3711. (LT)
- AMST 3712 American Poetry Since 1950 (also ENGL 3712) (LA-AS)**  
Spring. 4 credits. R. Gilbert.  
For description, see ENGL 3712. (LT)
- AMST 3720 Food, Gender and Culture (also FGSS 3720, ENGL 3721)**  
Fall. 4 credits. K. McCullough.  
For description, see FGSS 3720. (LT)
- AMST 3735 Political Freedom (also GOVT 3735)**  
Spring. 4 credits. J. Frank.  
For description, see GOVT 3735. (GP)
- AMST 3740 Painting in 19th-Century America (also ARTH/VISST 3740) # (CA-AS)**  
Fall. 4 credits. L. L. Meixner.  
For description, see ARTH 3740. (MV)
- AMST 3750 Comparative Race and Ethnicity (also DSOC/LSP 3750) # (SBA-AS)**  
Spring. 4 credits. R. Mize.  
For description, see DSOC 3750. (ASE)
- AMST 3770 Herman Melville (also ENGL 3770) # (HA-AS)**  
Fall. 4 credits. M. Cobb.  
For description, see ENGL 3770.
- [AMST 3777 The United States (also ANTHR/LSP 3777) # (CA-AS)]**  
4 credits. Next offered 2011-2012.  
V. Santiago-Irizarry. (ASE)]
- AMST 3801 Asian American Urban Experience (also AAS/CRP 3801/6801, AMST 6801)**  
Fall. 3 credits. C. Lai.  
For description, see AAS 3801. (HI)
- AMST 3810 American Architecture and Building I (also ARCH 3810)**  
Fall. 3 credits. Prerequisites: ARCH 1801-1802 or permission of instructor.  
M. Woods.  
For description, see ARCH 3810. (MV)
- AMST 3811 American Architecture and Building II (also ARCH 3811)**  
Spring. 3 credits. Prerequisites: ARCH 1801-1802 or permission of instructor.  
M. Woods.  
For description, see ARCH 3811. (MV)
- [AMST 3812 Edge Cities: Celluloid New York and Los Angeles (also ARCH/FILM/VISST 3812) (CA-AS)]**  
4 credits. Next offered 2011-2012.  
S. Haenni and M. Woods. (MV)]
- [AMST 3818 Special Topics in the History of Architecture and Urbanism (also ARCH 3818)]**  
3 credits. Prerequisites: ARCH 1801-1802 or permission of instructor. Next offered 2011-2012. M. Woods.  
For description, see ARCH 3818. (MV)]
- AMST 3820 Poetry and Poetics of Americas (also COML/LATA/SPAN 3800) (LA-AS)**  
Fall. 4 credits. J. Monroe.  
For description, see COML 3800. (LT)
- [AMST 3911 Science in the American Polity, 1960 to Now (also GOVT 3091, STS 3911) (SBA-AS)]**  
4 credits. Next offered 2011-2012. J. Reppy.  
For description, see STS 3911. (GP)]
- [AMST 3930 International Film of the 1970s (also COML/FILM/VISST 3930) (LA-AS)]**  
4 credits. Next offered 2011-2012.  
S. Haenni.  
For description, see FILM 3930. (LT)]
- AMST 3950 Race, Space, and Place (also AAS 3950, CRP 3101/6101, AMST 6950) (CA-AS)**  
Fall. 3 credits. C. Lai.  
For description, see CRP 3101. (HI)
- [AMST 3970 Policing and Prisons in American Culture (also ENGL 3970) (CA-AS)]**  
4 credits. Next offered 2011-2012.  
B. Maxwell. (LT)]
- [AMST 3981 Latino/a Popular Cultural Practices (also ENGL/LSP 3980) (CA-AS)]**  
4 credits. Next offered 2011-2012.  
M. P. Brady.  
For description, see ENGL 3980. (LT)]

**AMST 4030 Advanced Seminar in Poetry: A. R. Ammons, John Asbury, and Adrienne Rich (also ENGL 4030) (LA-AS)**

Fall. 4 credits. R. Gilbert.  
For description, see ENGL 4030. (LT)

**[AMST 4032 Immigration and Politics Research Seminar (also GOVT/LSP 4032) (SBA-AS)**

4 credits. Next offered 2011–2012.  
M. Jones-Correa. (GP)

**[AMST 4041 American Political Development in the 20th Century (also AMST 6121, GOVT 4041/6121) (HA-AS)**

4 credits. Next offered 2010–2011.  
M. E. Sanders. (GP)

**[AMST 4050 U.S.–Cuba Relations (also AMST 6050, HIST/LSP 4050/6050)**

4 credits. Next offered 2011–2012.  
M. C. Garcia. (HI)

**[AMST 4061 Politics of Slow-Moving Crises (also AMST/GOVT 6161, GOVT 4061) (SBA-AS)**

4 credits. Next offered 2011–2012.  
M. Jones-Correa. (GP)

**AMST 4141 Women Activism and Social Change in the 20th Century (also HIST/ FGSS 4141) (HA-AS)**

Fall. 4 credits. T. Carroll. (HI)  
For description, see HIST 4141.

**AMST 4142 Causes and Consequences of U.S. Foreign Policy (also GOVT 4142/6142, AMST 6142) (SBA-AS)**

Fall. 4 credits. E. Sanders.  
For description, see GOVT 4142. (GP)

**AMST 4180 Audio Documentary: Stories from the Land (also LA 4180)**

Fall. 3 credits. A. Hammer.  
For description, see LA 4180. (MV)

**[AMST 4200 Asian American Communities (also HIST 4200, AAS 4240) (HA-AS)**

4 credits. Limited to 15 students. Next offered 2010–2011. D. Chang. (HI)

**AMST 4222 Political Culture (also GOVT 4222)**

Spring. 4 credits. R. Bensel.  
For description, see GOVT 4222. (GP)

**[AMST 4231 The 1960s: Conceptualizing the Future from the Past (also GOVT 4231) (CA-AS)**

4 credits. Next offered 2010–2011.  
J. Kirshner and T. Lowi.  
For description, see GOVT 4231. (GP)

**AMST 4241 Contemporary American Politics (also AMST 6291, GOVT 4241/6291) (HA-AS)**

Spring. 4 credits. M. Shefter.  
For description, see GOVT 4241. (GP)

**[AMST 4260 The West and Beyond: Frontiers and Borders in American History and Culture (also HIST 4260) (HA-AS)**

4 credits. Next offered 2010–2011. A. Sachs.  
For description, see HIST 4260. (HI)

**AMST 4261 Commodification and Consumerism in Historical Perspective: Sex, Rugs, Salt, and Coal (also HIST 4261) @ # (HA-AS)**

Fall. 4 credits. A. Sachs.  
For description, see HIST 4261. (HI)

**AMST 4272 Historical Archaeology of Indigenous Peoples (also AIS 4270/7720, AMST 6272, ANTHR/ ARKEO 4272/7272) # (HA-AS)**

4 credits. K. Jordan.  
For description, see ANTHR 4272. (ASE)

**AMST 4281 Government and Public Policy: An Introduction to Analysis and Criticism (also AMST 6281, GOVT 4281/7281) (SBA-AS)**

Fall. 4 credits. T. Lowi.  
For description, see GOVT 4281. (GP)

**AMST 4400 Seminar in Recent American History (also HIST 4400) (HA-AS)**

Fall. 4 credits. R. Polenberg.  
For description, see HIST 4400.

**[AMST 4440 American Men (also FGSS 4450, HIST 4440) (HA-AS)**

4 credits. Next offered 2010–2011.  
E. Baptist. (HI)

**[AMST 4508 Exhibiting Cultures (also AMST 6508, ARTH 4508/6508, ASRC 4504/6508) (CA-AS)**

4 credits. Next offered 2010–2011.  
C. Finley. (MV)

**AMST 4509 Black Arts Movement (also ARTH 4509/ASRC 4505) (CA-AS)**

Summer. 4 credits. C. Finley.  
For description, see ARTH 4509. (MV)

**AMST 4510 Multiculturalism and Education (also EDUC/LSP 4510)**

Fall. 3 credits. S. Villenas.  
For description, see EDUC 4510. (ASE)

**AMST 4530 20th-Century Women Writers of Color (also AAS/ENGL/FGSS 4530) (LA-AS)**

Fall. 4 credits. S. Wong.  
For description, see ENGL 4530. (LT)

**AMST 4585 American Political Thought (also AMST 6585, GOVT 4585/6585) (HA-AS)**

Fall. 4 credits. J. Frank.  
For description, see GOVT 4585. (GP)

**[AMST 4600 Melville (also ENGL 4600) # (LA-AS)**

4 credits. Next offered 2011–2012.  
B. Maxwell. (LT)

**[AMST 4616 Interpreting Race and Racism: DuBois (also GOVT 4616) (HA-AS)**

4 credits. Next offered 2011–2012.  
A. M. Smith.  
For description, see GOVT 4616. (GP)

**[AMST 4625 Sexuality and the Law (also AMST 6625, FGSS 4610/7620, GOVT 4625/7625) (KCM-AS)**

4 credits. Next offered 2011–2012.  
A. M. Smith. (GP)

**[AMST 4635 Feminist Theory/Law and Society (also GOVT 4635) (CA-AS)**

4 credits. Next offered 2010–2011.  
A. M. Smith.  
For description, see GOVT 4635. (GP)

**[AMST 4660 Iroquois History (also AIS/ HIST 4660) # (HA-AS)**

4 credits. Not open to freshmen. Next offered 2010–2011. J. Parmenter. (HI)

**[AMST 4662 Contemporary American Indian Poets (also ENGL 4662) (LA-AS)**

4 credits. Next offered 2011–2012.  
E. Cheyfitz. (LT)

**[AMST 4690 Faulkner (also ENGL 4690) (LA-AS)**

4 credits. Next offered 2011–2012. K. Attell. (LT)

**[AMST 4750 Seminar in Cinema I (also FILM 4750) (LA-AS)**

4 credits. Next offered 2011–2012.  
D. Fredericksen.  
For description, see FILM 4750. (LT)

**AMST 4755 Seminar in Cinema I (also ENGL 4750)**

Spring. 4 credits. D. Woubshet.  
For description, see ENGL 4750.

**[AMST 4780 Intersections in Lesbian Fiction (also ENGL 4780, FGSS 4770) (LA-AS)**

4 credits. Next offered 2011–2012.  
K. McCullough. (LT)

**[AMST 4790 Gender and Visual Culture in Women's Literature (also ENGL/FGSS 4790, VISST 4800) (LA-AS)**

4 credits. Next offered 2012–2013.  
S. Samuels. (LT)

**[AMST 4809 Politics of '70s Film (also GOVT 4809) (SBA-AS)**

4 credits. Next offered 2011–2012.  
J. Kirshner. (GP)

**[AMST 4821 Religious and Secular in American Culture (also HIST/RELST 4821) (HA-AS)**

4 credits. Next offered 2011–2012.  
R. L. Moore. (HI)

**AMST 4850 Immigration: History, Theory, and Practice (also HIST/LSP 4850) (HA-AS)**

Fall. 4 credits. M. C. Garcia.  
For description, see HIST 4850. (HI)

**AMST 4851 Refugees (also HIST 4851) (HA-AS)**

Spring. 4 credits. M. C. Garcia.  
For description, see HIST 4851.

**[AMST 4900 New World Encounters, 1500 to 1800 (also AIS/HIST 4900) (HA-AS)**

4 credits. Next offered 2012–2013.  
J. Parmenter. (HI)

**[AMST 4970 Jim Crow and Exclusion-Era America (also AAS/HIST 4970, AMST/ HIST 6970) (HA-AS)**

4 credits. Next offered 2011–2012.  
D. Chang. (HI)

**AMST 4997 Research Seminar in American Studies (also HIST 4997)**

Fall or spring. Offered in Cornell in Washington Program only. S. Jackson.  
For description, see HIST 4997. (HI)

**AMST 4998 Politics and Policy: Theory, Research, and Practice (also ALS/ CAPS/GOVT 4998, PAM 4060)**

Fall and spring. 8 credits each semester.  
S. Jackson.  
Offered in Cornell in Washington Program. This course, taught in Washington, D.C., forms the core of the public policy option of the Cornell in Washington Program. (GP)

**AMST 5710 Social and Political Context of American Education (also AMST 6710, EDUC 2710/5710, SOC 2710/5710)**

Fall. 4 credits. J. Sipple.  
For description, see EDUC 2710. (ASE)

**[AMST 6050 U.S.-Cuba Relations (also AMST/HIST/LSP 4050/6050)**

4 credits. Next offered 2011-2012.  
M. C. Garcia. (HI)

**[AMST 6101 African-American Historiography (also HIST 6101)**

4 credits. Next offered 2010-2011.  
M. Washington. (HI)

**AMST 6102 Asian American Politics and Public Policy (also AMST 3102, CRP 3102/6107, AAS 3901)**

Spring. 3 credits. C. Lai.  
For description, see CRP 3102.

**[AMST 6121 American Political Development in the 20th Century (also AMST 4041, GOVT 4041/6121)**

4 credits. Next offered 2011-2012.  
E. Sanders.  
For description, see GOVT 4041. (GP)

**AMST 6142 Causes and Consequences of U.S. Foreign Policy (also AMST/GOVT 4142/6142)**

Fall. 4 credits. E. Sanders.  
For description, see GOVT 4142. (GP)

**[AMST 6161 Politics of Slow-Moving Crises (also AMST/GOVT 4061, GOVT 6161)**

4 credits. Next offered 2011-2012.  
M. Jones-Correa. (GP)

**AMST 6202 Political Culture (also GOVT 6202)**

4 credits. R. Bensel.  
For description, see GOVT 6202. (GP)

**[AMST 6248 Iroquois Archaeology (also AIS/ANTHR/ARKEO 6248)**

4 credits. Next offered 2011-2012.  
K. Jordan. (ASE)

**AMST 6272 Historical Archaeology (also AMST 4272, ANTHR/ARKEO 4272/7272)**

Fall. 4 credits. Next offered 2011-2012.  
K. Jordan.  
For description, see ANTHR 4272. (ASE)

**AMST 6281 Government and Public Policy: An Introduction to Analysis and Criticism (also AMST 4281, GOVT 4281/7281)**

Fall. 4 credits. T. Lowi.  
For description, see GOVT 4281. (GP)

**AMST 6291 Contemporary American Politics (also AMST 4241, GOVT 4241/6291)**

Spring. 4 credits. M. Shefter.  
For description, see GOVT 4241. (GP)

**AMST 6301 Institutions (also GOVT 6301)**

Fall. 4 credits. R. Bensel.  
For description, see GOVT 6301. (GP)

**[AMST 6424 Ethnoracial Identity in Anthropology, Language, and Law (also ANTHR/LSP 6424, LAW 7231)**

4 credits. Next offered 2011-2012.  
V. Santiago-Irizarry. (ASE)

**[AMST 6550 Early Modern Atlantic World (also HIST 6550)**

Spring. 4 credits. Next offered 2010-2011.  
M. B. Norton. (HI)

**AMST 6585 American Political Thought (also GOVT 4585/6585, AMST 4585)**

Fall. 4 credits. J. Frank.  
For description, see GOVT 4585.

**AMST 6611 What Is a Just Society?: Nature American Philosophies and the Limits of Capitalism's Imagination (also ENGL 6611)**

Spring. 4 credits. E. Cheyfitz.  
For description, see ENGL 6611.

**[AMST 6625 Sexuality and the Law (also AMST 4625, FGSS 4610/7620, GOVT 4625/7625)**

4 credits. Next offered 2011-2012.  
A. M. Smith. (GP)

**[AMST 6631 American Poetry, 1955-1980 (also ENGL 6631)**

4 credits. Next offered 2011-2012.  
R. Gilbert. (LT)

**[AMST 6645 Democratic Theory (also GOVT 6645)**

4 credits. Next offered 2010-2011. J. Frank.  
For description, see GOVT 6645. (GP)

**[AMST 6690 Gift and Contract in the 19th-Century United States: Social and Sexual Constructions of Whiteness, Race, and Ethnicity (also ENGL 6690)**

4 credits. Next offered 2011-2012.  
S. Samuels. (LT)

**AMST 6801 Asian American Urban Experience (also AAS/CRP 3801/6801, AMST 3801)**

Fall. 3 credits. C. Lai.  
For description, see AAS 3801. (HI)

**[AMST 6811 James Baldwin (also ENGL/FGSS 6811)**

4 credits. Next offered 2011-2012.  
D. Woubshet. (LT)

**AMST 6950 Race, Space, and Place (also AMST/AAS 3950, CRP 3101/6101)**

Fall. 3 credits. C. Lai.  
For description, see CRP 3101.

**[AMST 6970 Jim Crow and Exclusion Era America (also AMST 4970, HIST 4970/6970)**

4 credits. Next offered 2011-2012.  
D. Chang. (HI).

### Honors

Please see description of major for information about registration in these courses.

**AMST 4993-4994 Honors Essay Tutorial**

4993, fall; 4994, spring. 4 credits. See Director of American Studies for appropriate advisors. (HR)

## ANTHROPOLOGY

A. Willford, chair; H. Miyazaki and N. Russell, directors of graduate studies; S. Langwick, director of undergraduate studies; A. Clark Arcadi, J. Fajans, M. Fiskesjo, F. Gleach, D. Greenwood, J. Henderson, D. Holmberg, K. Jordan, K. March, H. Miyazaki, V. Munasinghe, P. Nadasy, A. Riles, N. Russell, S. Sangren, V. Santiago-Irizarry, M. Small, T. Volman, M. Welker. Emeritus: R. Ascher, B. J. Isbell, B. Lambert, J. Siegel, R. Smith.

Anthropology is one of the most diverse disciplines in the university. Spanning human evolution, the development and heterogeneity of language and culture, human history, and the diversity of cultures past and present, the field has broad scope, uses a variety of methods, addresses basic issues about human origins and human life, and maintains commitment to understanding social life and using this understanding to improve society. Anthropology is an ideal "liberal arts" major. It also serves as a major that, when well designed by the student with his or her advisor, prepares students for a wide range of professional careers, e.g., law, medicine, foreign service, human rights, social services, international development, and business, among others.

Courses for nonmajors: Anthropology welcomes nonmajors into many of its courses. Unless prerequisites are explicitly stated, 2000- and 3000-level courses do not have formal prerequisites and students without prior experience in anthropology are welcome in these classes. For additional information, see the anthropology department web page ([falcon.arts.cornell.edu/Anthro](http://falcon.arts.cornell.edu/Anthro)).

### The Major

The major is structured to provide both general grounding in three subfields of anthropology (sociocultural anthropology, anthropological archaeology, and biological anthropology) and detailed focus on a particular area of concentration. Areas of concentration include a wide variety of subjects within and between these three subfields. Topics ranging from identity politics and globalization to prehistory and human evolution can be pursued in classes focused on every major geographical region in the world. Upper-level courses span a range of topical and theoretical issues related to religion, gender, economics, colonialism, democratization, prehistoric cultures, race, behavioral evolution, and conservation, to name a few.

No prerequisites are required to enter the anthropology major. Students should see the director of undergraduate studies to apply to the major and obtain an advisor. Majors prepare a short statement about their interests and goals for the major, and then meet with their advisor. Majors and advisors collaboratively build a program of study that reflects the student's individual interests and the intellectual breadth of the field. Our goal is to provide a close and supportive advising relationship and a strong and coherent structure for the student's major.

A minimum of 37 credits are necessary to complete the major. To complete the major, students must take:

- One class of 3 or more credits in each of the three subfields (sociocultural,

archaeological, biological) at the 1000 or 2000 level.

- ANTHR 3000: Introduction to Anthropological Theory
- Two other courses of at least 4 credits at the 3000 level that are designated “comparative survey” courses in the catalog.
- Two 4000-level courses, one of which must be a seminar course in your senior year (4000, 4258, 4260, and 4263 are not seminar courses and do not fill the requirements).
- An additional 8 credits in elective courses, which may be in cognate disciplines with the approval of your advisor.

Exceptions to these requirements may be granted if a written petition is approved by the director of undergraduate studies.

No S–U credits or First-Year Writing Seminars may count toward the major. A letter grade of C– or better is required in all courses counted toward the major.

#### Study abroad and off-campus study programs:

The Department of Anthropology encourages students to consider a semester of study abroad or off-campus study developed as an integral part of the student’s major concentration. The director of undergraduate studies serves as the anthropology study abroad advisor.

**The Cornell–Nepal Study Program:** The Cornell–Nepal Study Program is a joint program of Cornell University and Tribhuvan University, the national university of Nepal. Qualified juniors, seniors, and first- or second-year graduate students work with faculty from both universities to prepare for and undertake field research projects in Nepal. Students receive 15 credits per semester; students may enroll for either fall or spring semester, or for the entire year; application is through Cornell Abroad. For further information, consult David Holmberg or Kathryn March in the Department of Anthropology.

Other anthropologically relevant study abroad options, using existing Cornell Abroad and off-campus options, can be worked out in consultation with the major advisor, the anthropology study abroad advisor, and Cornell Abroad.

### Honors

Honors in anthropology are awarded for excellence in the major, which includes overall GPA and completion of an honors thesis. Undergraduate students interested in working for an honors degree should apply to the chair of the Honors Committee in the second semester of their junior year (requests for late admission may be considered, but not later than the second week of the first semester of the senior year). It is the student’s responsibility to identify an appropriate topic for a thesis and to find a faculty member willing to sponsor and supervise the research; the advisor and at least the general subject of the thesis must be identified at the time of application for admission to the Honors Program. Note that clearance from the University Committee on Human Subjects usually is required before research involving living people may begin; students contemplating such research should begin to work with their thesis advisors to design their

investigations and obtain the clearance well in advance of the date when the involvement with research subjects is to begin.

Admission to the Honors Program requires an overall GPA of 3.3 or greater and a 3.5 GPA in the major. In addition, the student should have no outstanding Incompletes in courses that will be used toward the major (provisional admission with Incompletes is possible at the discretion of the chair of the Honors Committee on evidence that a good faith effort to finish them is under way). Under special circumstances, a student with an overall GPA of 3.0 may petition for admittance to the program.

Writing an honors thesis typically is a two-semester project involving 8 credits of course work; most students do this work during their senior year. During their first semester of honors work, students typically register for (1) ANTHR 4983 Honors Thesis Research (3 credits); and (2) ANTHR 4991 Honors Workshop I (1 credit). During their second semester of honors work, students typically register for (1) ANTHR 4984 Honors Thesis Write-up (2 credits); and (2) ANTHR 4992 Honors Workshop II (2 credits). The two-course/term arrangement reflects the division of supervision over the thesis between the thesis advisor and the chair of the Honors Committee. The thesis advisor is ultimately responsible for guiding the scholarly development of the thesis; the chair of the Honors Committee is mainly responsible for assuring timely progress toward completion of the thesis, and providing a context for students in the Honors Program to share ideas (both editorial and substantive) as their theses progress.

### Special Programs and Facilities

**Collections:** the department has an extensive collection of archaeological and ethnological materials housed in the Anthropology Collections. A limited number of students can make arrangements to serve as interns in the Anthropology Collections. Olin Library houses some of the most extensive collections of materials on the ethnology of Southeast Asia, South Asia, East Asia, and Latin America to be found anywhere in the United States. The biological anthropology laboratory (B65 McGraw Hall) houses an extensive collection of materials for teaching purposes, including (1) human skeletal remains, (2) articulated skeletons and cranial casts of primates, and (3) casts of important fossils in the human lineage.

**Independent Study:** specialized individual study programs are offered in ANTHR 4910, Topics in Anthropology, a course open to a limited number of juniors and seniors who have obtained permission and supervision of a faculty member. Undergraduates should note that many 6000-level courses are open to them by permission of the instructor.

**Colloquia:** The Department of Anthropology holds colloquia almost every week of the semester on Friday at 3:30 p.m. in 215 McGraw Hall. Faculty members from Cornell and other universities participate in discussions of current research and problems in anthropology. Students are encouraged to attend.

For more complete information about the anthropology major, see the director of undergraduate studies or visit the Department

of Anthropology web page ([falcon.arts.cornell.edu/Anthro](http://falcon.arts.cornell.edu/Anthro)).

### I. Introductory Courses

Each of these Introductory Courses provides an introduction to one of the subfields of anthropology. They do not form a sequence; students can take them in any order and at any point during their time at Cornell.

#### ANTHR 1200 Ancient Peoples and Places @ # (HA-AS)

Spring. 3 credits. T. Volman.

A broad introduction to archaeology—the study of material remains to answer questions about the human past. Case studies highlight the variability of ancient societies and illustrate the varied methods and interpretive frameworks archaeologists use to reconstruct them. This course can serve as a platform for both archaeology and anthropology undergraduate majors.

#### ANTHR 1300 Human Evolution: Genes, Behavior, and the Fossil Record (PBS Supplementary List)

Spring. 3 credits. Fee for lab usage and maintenance, \$5. A. Arcadi.

The evolution of humankind is explored through the fossil record, studies of the biological differences among current human populations, and a comparison with our closest relatives, the primates. This course investigates the roots of human biology and behavior with an evolutionary framework.

#### ANTHR 1400 The Comparison of Cultures @ (CA-AS)

Fall. 3 credits. Staff.

An introduction to cultural anthropology through ethnographies, or the descriptive accounts of anthropologists. Through readings and lectures, students acquaint themselves with a number of cultures from several parts of the world. The cultures range in form from those of small-scale tribal societies to those of state societies. Throughout the course, we attempt to make sense of exotic cultures in their own terms. Attention is focused on variation in cultural patterns as they are expressed in social, economic, and ritual practices. In this encounter, the principles of anthropology, as a comparative enterprise that poses distinct cultural systems in relief, will be developed. Fiction, films, and exercises supplement the formal anthropological materials.

#### ANTHR 1401 The Scope of Anthropology

Fall. 1 credit. Does not satisfy major requirement to take two broad introductory courses. Pre- or corequisite: ANTHR 1300 or 1400. S–U grades only. Staff.

This course is intended for majors in anthropology, prospective majors. Each week a different member of the faculty in anthropology at Cornell will make a presentation on the nature of their work within the field and discuss their interests with students. The course is meant to introduce the range of approaches found within anthropology and help students in planning future course work.

#### ANTHR 2400 Cultural Diversity and Contemporary Issues @ (SBA-AS)

Spring. 3 credits. M. Fiskesjo.

This course will introduce students to the meaning and significance of forms of cultural diversity for the understanding of

contemporary issues. Drawing from films, videos, and selected readings, students will be confronted with different representational forms that portray cultures in various parts of the world, and they will be asked to examine critically their own prejudices as they influence the perception and evaluation of cultural differences. We shall approach cultures holistically, assuming the inseparability of economics, kinship, religion, and politics, as well as interconnections and dependencies between world areas (e.g., Africa, Latin America, the West). Among the issues considered: "political correctness" and truth; nativism and ecological diversity; race, ethnicity, and sexuality; sin, religion, and war; global process and cultural integrity.

## II. Sociocultural Anthropology

Sociocultural anthropology is rooted in the precise observation and rigorous analysis of human cultural capacities and human social practices, relations, and institutions. All sociocultural anthropology involves both inquiry into the diversity of human cultures (ethnography) and comparative analysis of human social dynamics (social theory). Historically, sociocultural anthropology specialized in the study of nonwestern peoples, but today there are few places and domains of human activity that sociocultural anthropologists do not study. To give a few examples, sociocultural anthropologists study nuclear weapons scientists in California, the transformation of state power in Russia, and the politics of development in India. They study how television producers in Egypt contribute to nationalism, the social effects of truth commissions in Guatemala and South Africa, and the emergence of new religious and social movements in Latin America. What distinguishes sociocultural anthropology as a field is its engagement with the full abundance of human lived experience and its integrated, comparative effort to make sense of the key processes shaping this experience. As such, sociocultural anthropology is an excellent, flexible choice of major. It teaches core critical, analytical, and expressive skills and important perspectives on human cultural creativity and social life that are widely applicable. Recently, our majors have gone into careers as diverse as academic scholarship, activism, advertising, consulting, design, film, journalism, marketing, medicine, NGO-work, and politics and government.

### **ANTHR 1400 The Comparison of Cultures @ (CA-AS)**

Fall. 3 credits. Staff.  
For description, see Introductory Courses.

### **ANTHR 1401 The Scope of Anthropology**

Fall. 1 credit. Staff.  
For description, see Introductory Courses.

### **ANTHR 2400 Cultural Diversity and Contemporary Issues @ (SBA-AS)**

Spring. 3 credits. M. Fiskesjo.  
For description, see Introductory Courses.

### **[ANTHR 2428 Slavery and Human Trafficking # (CA-AS)]**

Spring. 4 credits. Next offered 2010–2011.  
M. Fiskesjo.]

### **ANTHR 2450 The Anthropology of Food and Cuisine @ (CA-AS)**

Spring. 4 credits. J. Fajans.  
You are what you eat! This course examines the way food is produced, prepared,

exchanged, presented, and given meaning in cultures around the world. It examines the symbolism of specific foodstuffs. Who prepares food and how is it done? Who feeds whom and how these relations are expressed and valued? In addition to looking at these questions we analyze ideas about commensality; how food is used in public contexts for presentation or exchange, and how food is a marker of gender, class, status, ethnicity, and identity. In addition to looking specifically at food, we analyze cultural ideas about gender, the body, and identity in terms of how these cultural patterns are produced and expressed through concrete activities like eating, fasting, and special diets. In this class we stress critical and comparative thinking about subjects we tend to take for granted.

### **ANTHR 2468 Medicine, Culture, and Society (CA-AS)**

Fall. 3 credits. S. Langwick.  
Medicine has become the language and practice through which we address a broad range of both individual and societal complaints. Interest in this "medicalization of life" may be one of the reasons that medical anthropology is currently the fastest-growing sub-field in anthropology. This course encourages students to examine concepts of disease, suffering, health, and well-being in their immediate experience and beyond. In the process, students will gain a working knowledge of ecological, critical, phenomenological, and applied approaches used by medical anthropologists. We will investigate what is involved in becoming a doctor, the sociality of medicines, controversies over new medical technologies, and the politics of medical knowledge. The universality of biomedicine (or hospital medicine) will not be taken for granted, but rather we will examine the plurality generated by the various political, economic, social, and ethical demands under which biomedicine has developed in different places and at different times. In addition, biomedical healing and expertise will be viewed in relation to other kinds of healing and expertise. Our readings will address medicine in North America as well as other parts of the world. In class, our discussions will return regularly to consider the broad diversity of kinds of medicine throughout the world, as well as the specific historical and local contexts of biomedicine.

### **[ANTHR 2546 South Asian Religions in Practice @ (CA-AS)]**

Fall. 3 credits. Next offered 2011–2012.  
Staff.]

### **ANTHR 2560 Japanese Society Through Film @ (CA-AS)**

Fall. 3 credits. H. Miyazaki.  
This is an anthropological introduction to Japanese society through a critical investigation of a wide range of films from Ozu Yasujiro's classic films to Miyazaki Hayao's animated films. Topics of investigation include kinship and marriage, work and workplaces, gender and sexuality, bureaucracy, crime and legal culture, nationalism and nostalgia, and techno-scientific utopia.

### **[ANTHR 2721 Anthropological Representation: Ethnographies on Latino Culture (also AMST/LSP 2721) (CA-AS)]**

Fall. 3 credits. Next offered 2010–2011.  
V. Santiago-Irizarry.]

### **ANTHR 3000 Introduction to Anthropological Theory (CA-AS)**

Spring. 4 credits. P. Nadasdy.  
This seminar course is designed for anthropology majors to give them an introduction to classical and contemporary social and anthropological theory and to help prepare them for upper-level seminars in anthropology. The seminar format emphasizes close reading and active discussion of key texts and theorists. The reading list will vary from year to year but will include consideration of influential texts and debates in 19th, 20th, and 21st century anthropological theory especially as they have sought to offer conceptual and analytical tools for making sense of human social experience and cultural capacities.

### **[ANTHR 3406 Gifts and Exchange (SBA-AS)]**

Spring. 4 credits. Comparative survey. Next offered 2010–2011. H. Miyazaki.]

### **[ANTHR 3410 Nationalism and Revivalism (CA-AS)]**

Spring. 4 credits. Comparative survey. Next offered 2011–2012. Staff.]

### **ANTHR 3420 Myth, Ritual, and Symbol (also RELST 3230) @ (CA-AS)**

Spring. 4 credits. Comparative survey.  
D. Holmberg.  
Examines how systems of thought, symbolic forms, and ritual practice are formulated and expressed in primarily non-Western societies. Focuses on anthropological interpretations of space, time, cosmology, myth, classificatory systems (e.g., color, totems, food, dress, kinship), taboos, sacrifice, witchcraft, sorcery, and rites of passage (birth, initiation, marriage, death). Examines both the roles of specialists (e.g., spirit mediums, curers, priests, ascetics) and nonspecialists in producing these cultural forms.

### **ANTHR 3421 Sex and Gender in Cross-Cultural Perspective (also FGSS 3210) @ (SBA-AS)**

Fall. 4 credits. Comparative survey.  
K. March.  
Introduction to the study of sex roles cross-culturally and to anthropological theories of sex and gender. Examines various aspects of the place of the sexes in social, political, economic, ideological, and biological systems to emphasize the diversity in gender and sex-role definitions around the world.

### **ANTHR 3422 Culture, Politics, and Environment in the Circumpolar North (also ANTHR 6422) (CA-AS)**

Spring. 4 credits. P. Nadasdy.  
This course examines the cultures and histories of the circumpolar North. The primary emphasis is on the North American Arctic and Subarctic with some attention to northern Eurasia for comparative purposes. The focus is on the indigenous peoples of the region and the socio-political and ecological dimensions of their evolving relationships with southern industrial societies.

### **[ANTHR 3428 Conflict, Dispute Resolution, and Law in Cultural Context (SBA-AS)]**

Fall. 4 credits. Comparative survey. Next offered 2011–2012. V. Santiago-Irizarry.]

### **ANTHR 3447 Sport @ (CA-AS)**

Spring. 4 credits. S. Sangren.  
Long overlooked by anthropologists, sport and recreation are increasingly recognized as

important windows into culture. Sport can be approached from a number of directions—interpreted as a ritual; viewed as a spectacle of ethnic, regional, or national identity; seen as a metaphor for life; understood as a major industry. This course will consider these and other approaches to sport, encouraging students to bring their own involvements in sport to reflect not only upon sport itself, but also upon how such reflection can illuminate cultural, psychological, and political dimensions of social life. Why, for example, do we take sport (and other forms of recreation) so seriously? Why do many of us apparently invest more passion in such pursuits than to life's allegedly more serious activities? How is sport integrated into people's identities? Readings will draw from popular literature and media as well as academic writing from a variety of disciplines (psychology, sociology, history) in addition to anthropology.

**[ANTHR 3451 Global Movements of Cultural Heritage @ (CA-AS)**

Spring. 4 credits. Comparative survey. Next offered 2010–2011. M. Fiskesjo.]

**[ANTHR 3461 Anthropology of Organizations (also ANTHR 6461) (SBA-AS)**

Spring. 4 credits. D. Greenwood. Next offered 2010–2011.]

**[ANTHR 3462 Democratizing Research (also ANTHR 6462) (SBA-AS)**

Fall. 4 credits. D. Greenwood. Next offered 2010–2011.]

**ANTHR 3465 Anthropology of the Body (also ANTHR 6465) (CA-AS)**

Fall. 4 credits. S. Langwick.

This course examines a range of texts that treat the body as the subject and object of cultural, technological, political and ethical processes. Students investigate the cultivation of physical and social bodies through ethnographic and historical materials concerning healing and medicine, discipline and labor, governance and religion, aesthetics and desire. The production and reproduction of bodies and embodied practices have long been central to the way that power works. In this class, we will read and discuss a range of approach to the body. There is much contention over how work, politics, environment, technologies, and violence shape the body and the senses. We will debate how histories of the body are intertwined with histories of gender, race, class, sexuality, (post)coloniality, modernization, science, transnationalism, and the webs of institution, ideas, and capital that comprise these phenomena. Some readings will investigate the complex mediations that account for the body as icon, text, metaphor, commodity, and raw material. Others will contend that serious attention to the production and reproduction of the body across different times and spaces challenge traditional notions of materiality and physicality. Because every examination of the body rests—implicitly or explicitly—in a theoretical and methodological approach to experience, we will also explore the histories of bodily senses, appetites and capabilities. Ultimately, our inquiry into contests over and reflections on “the body,” as well as specific bodies, aims to open up broader anthropological questions about authority, agency, sovereignties, and material life.

**[ANTHR 3479 Culture, Language, and Thought (CA-AS)**

Spring. 4 credits. Comparative survey. Next offered 2010–2011. V. Santiago-Irizarry.]

**[ANTHR 3514 Learning in Japan @ (SBA-AS)**

Spring. 4 credits. Next offered 2011–2012. H. Miyazaki.]

**[ANTHR 3516 Power, Society, and Culture in Southeast Asia @ (CA-AS)**

Fall. 4 credits. Next offered 2010–2011. M. Welker.]

**ANTHR 3545 Peoples and Cultures of the Himalayas (also ANTHR 7545) @ (CA-AS)**

Fall. 4 credits. K. March.

A comprehensive exploration of the peoples and cultures of the Himalayas. Ethnographic materials draw on the lifeways of populations living in the Himalayan regions of Bhutan, India, Nepal, and Tibet. Some of the cultural issues to be examined through these sources include images of the Himalayas in the West, forms of social life, ethnic diversity, political and economic history, and religious complexity.

**[ANTHR 3546 Asian Minorities @ (CA-AS)**

Fall. 4 credits. Next offered 2010–2011. M. Fiskesjo.]

**ANTHR 3554 Male and Female in Chinese Culture and Society (also FGSS 3440) @ (SBA-AS)**

Fall. 4 credits. S. Sangren.

This course explores the culture of gender, sex roles, and domestic relations in late traditional and modern Chinese society. Readings and lectures range from ethnographic descriptions of the dynamics of Chinese family life, kin relations, and socialization to representations of male and female in mythologies and ritual activities. The course also considers developments subsequent to political changes in China. Although the course's analytical focus is anthropological, readings will draw from the writings of historians and political scientists as well. A premise of the course is that understanding sex and gender in China is essential to understanding Chinese culture and its most fundamental values. The course also aims to introduce students interested in Chinese to techniques of anthropological analysis.

**[ANTHR 3703 Asians in the Americas: A Comparative Perspective (also AAS 3030) (CA-AS)**

Fall. 4 credits. Next offered 2010–2011. V. Munasinghe.]

**ANTHR 3734 Brazil: Many Cultures, One Nation @ (CA-AS)**

Spring. 4 credits. J. Fajans.

From the streets of Rio to the shores of the Amazon, Anthropology studies the lives, communities, beliefs, practices, and politics of the diverse region known as Brazil. This course will look at issues of race, gender, ethnicity, religion, ritual, environment, development, and human rights across Brazil. We will examine rural and urban cultures, discuss African and European Influences, and explore the relations between indigenous and national cultures. In this context, we will look at the roles that religion, food, dress, soccer, samba, and carnival all play in producing this vibrant culture.

**[ANTHR 3777 The United States (also AMST/LSP 3777) (CA-AS)**

Fall. 4 credits. Next offered 2011–2012. V. Santiago-Irizarry.]

**ANTHR 4000 Development of Anthropological Thought (also ANTHR 7000) (SBA-AS)**

Fall. 4 credits. Prerequisite: for undergraduates, two prior anthropology courses or permission of instructor. Staff. Examination of the history and development of anthropological theory and practice. Focuses on the differences and continuities among the various national and historical approaches that have come to be regarded as the schools of anthropology.

**[ANTHR 4403 Ethnographic Field Methods (also ANTHR 6403) (SBA-AS)**

Fall. 4 credits. Next offered 2010–2011. V. Santiago-Irizarry.]

**[ANTHR 4406 The Culture of Lives (also FGSS 4060) @ (CA-AS)**

Spring. 4 credits. Next offered 2010–2011. K. March.]

**ANTHR 4419 Anthropology of Corporations (also ANTHR 7419) (SBA-AS)**

Spring. 4 credits. M. Welker.

This course develops an anthropological approach to corporations with a focus on large, profit-oriented, publicly traded corporations. To denaturalize the corporation, we will consider competing cultural logics internal to corporations as well as the contingent historical processes and debates that shaped the corporate form over the past two centuries. The course will examine processes through which various social groups have sought to alter and restrain corporations as well as reciprocal corporate attempts to reshape the social environment in which they operate.

**ANTHR 4426 Ideology and Social Production (also ANTHR 7426) @ (SBA-AS)**

Spring. 4 credits. S. Sangren.

This course is premised on the notion that understanding social life requires understanding how social institutions are produced and sustained through time—that is to say, one must understand “society” as a process of production. By the same token, all cultures produce ideas or “representation” (e.g., about reality, nature, society, gender, authority) that serve to legitimize or validate each society's particular social arrangements. These ideologies play an important role in social production, on the one hand, and are also products of social processes, on the other. This course focuses on the linkages between ideology and social production in readings drawn from social theory and ethnographic case studies. We discuss strongly diverging views (psychoanalytic, postmodernist, poststructuralist, practice-theory, neo-Marxist) on how best to conceive social processes. An integrating theme is that understanding ideology and its alienating operations is essential in developing a coherent understanding of what culture, in the last analysis, is.

**ANTHR 4429 Anthropology and Psychoanalysis (also ANTHR 7429) @ (SBA-AS)**

Fall. 4 credits. S. Sangren.

Psychoanalysis holds that desire emerges from the clash between individuals' predisposition and the need to accommodate to others in society. Yes anthropology has been resistant to the role that psychoanalytic theory might play in linking individual desire to culture. Does psychoanalysis have anything to offer cultural anthropology? Can understanding of collective institutions be advanced with reference to theories of individual motivation and desire? Conversely, can collective life be understood without reference to individual motivation and desire? Is desire best understood as sexual in nature, or is it better understood in more abstract and existential terms. With such questions in mind, this course surveys anthropology's engagements with psychoanalysis. We read theoretical works as well as ethnographically grounded case studies on topics ranging from religious experience, mythic narratives, the cultural construction of gender and desire, and modern popular culture.

**[ANTHR 4437 Anthropology of Development (also ANTHR 7437) @ (CA-AS)]**

Fall. 4 credits. Next offered 2010-2011.  
M. Welker.]

**ANTHR 4439 Sovereignty and Biopolitics @ # (CA-AS)**

Spring. 4 credits. M. Fiskesjo.

This seminar course's starting point is Agamben's widely discussed ideas about "bare life" in relation to modern state sovereignty and to continuities with earlier forms of sovereignty. The course unfolds as a political-legal anthropology of sovereignty and citizenship, the exclusion of undesirables, and modern biopolitical control mechanisms. Readings will draw on classics from the anthropology and other literature on sovereignty and kingship, as well as case studies dealing with the modern Chinese state, the United States, the Soviet Union, etc.

**[ANTHR 4444 God(s) and the Market (also ANTHR 7444) @ (CA-AS)]**

Spring. 4 credits. Next offered 2012-2013.  
H. Miyazaki.]

**[ANTHR 4455 Anthropology in the Real World (SBA-AS)]**

Spring. 4 credits. Next offered 2010-2012.  
Staff.]

**[ANTHR 4478 Taboo and Pollution (CA-AS)]**

Spring. 4 credits. Next offered 2010-2011.  
M. Fiskesjo.]

**[ANTHR 4479 Ethnicity and Identity Politics: An Anthropological Perspective (also AAS 4790) (SBA-AS)]**

Spring. 4 credits. Next offered 2010-2011.  
V. Munasinghe.]

**[ANTHR 4480 Anthropology and Globalization (also ANTHR 6480) (CA-AS)]**

Fall. 4 credits. Next offered 2011-2012.  
Staff.]

**ANTHR 4513 Religion and Politics in Southeast Asia (also ASIAN 4413) @ (CA-AS)]**

Spring. 4 credits. A. Willford.

This course explores how religious beliefs and practices in Southeast Asia have been transformed by the combined forces of colonialism, nationalism, and globalization. By examining both diversity and resurgence in

one of the world's most rapidly modernizing regions, we aim to understand the common economic, social, and political conditions that are contributing to the popularity of contemporary religious movements. At the same time, we also consider the unique ideological, theological, and cultural understandings behind different religions and movements. Through this process we also rethink conceptions of modernity.

**ANTHR 4523 Making History on the Margins: The China-SE Asia Borderlands (also ANTHR 7523) # @ (HA-AS)]**

Fall. 4 credits. M. Fiskesjo.

This seminar course is a new in-depth look at classical issues regarding the making of history, revisiting the mountain borderlands in between China and Southeast Asia made famous by anthropologists (Leach, Lévi-Strauss, Kirch, and Friedman) attempting to understand structure, history, and center-periphery transformations. Are the peoples of this region (Kachin, Wa, Naga, etc. predetermined by fateful forces and processes beyond their control, as prisoners of geography and circumstance, or what role do they have in the making of their own history? The course addresses themes from regional ethnography as well as theoretical issues, and forms an introduction to field research in this fertile region.

**[ANTHR 4542 Violence, Symbolic Violence, Terror, and Trauma in South Asia and the Himalayas (also ANTHR 6542) @ (CA-AS)]**

Fall. 4 credits. Next offered 2011-2012.  
D. Holmberg.]

### III. Anthropological Archaeology

Anthropological archaeology studies the diverse societies of the past using the material traces they left behind in the archaeological record. In addition to studying artifacts, archaeologists use unique methods to study the settings in which artifacts were produced and used by examining regional settlement patterns, the structure of sites and communities, the organization of activities, and ancient symbolism and social relations. The concerns of anthropological archaeology range from basic questions about continuity and change in the past, to application of hard science methods to date sites and determine the sources of artifacts, criticism of the uses to which the past is put in contemporary society, and protection of the archaeological record. Anthropological archaeology can be distinguished from other forms of archaeology (such as Classical or Art Historical archaeology) based on its emphasis on holistically studying past cultural systems, and by the theories and approaches it shares with sociocultural and biological anthropology. There are numerous career opportunities for anthropological archaeologists, including work with museums, government agencies, and historic preservation groups in addition to academic employment. Private companies engaged in federally mandated cultural resource management (or CRM) archaeology employ thousands of archaeologists in the United States, and similar management programs exist in many other countries.

**ANTHR 1200 Ancient Peoples and Places (also ARKEO 1200) # @ (HA-AS)]**

Spring. 3 credits. T. Volman.

For description, see Introductory Courses.

**ANTHR 1401 The Scope of Anthropology**

Fall. 1 credit. Staff.

For description, see Introductory Courses.

**[ANTHR 2200 Early People: The Archaeological and Fossil Record (also ARKEO 2200) # (HA-AS)]**

Spring. 3 credits. T. Volman.

A survey of the archaeological and fossil record of human evolution. Contributions by researchers from a variety of disciplines are highlighted, as are the discoveries that have enlivened the study of human evolution for more than a century. Critical evaluation of evidence and interpretation will be stressed. Demonstrations and films supplement the lectures.]

**ANTHR 2201 Early Agriculture (also ARKEO 2201) # @ (HA-AS)]**

Spring. 3 credits. N. Russell.

Throughout most of the human career, people survived by hunting and gathering wild foods. The advent of food production is one of the most profound changes in (pre)history. This course examines the current evidence for the appearance and spread of agriculture (plant and animal domestication) around the world. We will consider definitions of agriculture and domestication, the conditions under which it arises, the consequences for those who adopt it, and why it has spread over most of the world.

**[ANTHR 2215 Stone Age Art (also ARKEO 2215) # (CA-AS)]**

Fall. 3 credits. Next offered 2010-2011.  
T. Volman.]

**ANTHR 2220 Field Course in Iroquois Archaeology (also ARKEO 2220) # (SBA-AS)]**

Summer only. 3 credits. K. Jordan.

This course offers hands-on training in archaeological field methods through survey and excavation at historic-period Iroquois sites in the Finger Lakes region. The majority of class time will be spent engaging in supervised fieldwork, supplemented by lectures introducing archaeological methods and Iroquois history and material culture. Excavations will gather data on Iroquois residential architecture and domestic activities. Students will master field procedures, record-keeping, and interpretation of field data; study Iroquois material culture; and write a short research paper (7-10 pages) that uses data generated by the project to evaluate a topic of anthropological interest. Most class time will be spent off-campus; transportation will be arranged by the instructor.

**ANTHR 2235 Archaeology of North American Indians (also AIS/AMST 2350, ARKEO 2235) # (HA-AS)]**

Spring. 3 credits. K. Jordan.

This introductory course surveys archaeology's contributions to the study of American Indian cultural diversity and change in North America north of Mexico. Lectures and readings will examine topics ranging from the debate over when the continent was first inhabited to present-day conflicts between Native Americans and archaeologists over excavation and the interpretation of the past. We will review important archaeological sites such as Chaco Canyon, Cahokia, Lamoka Lake, and the Little Bighorn battlefield. A principal focus will be on major transformations in lifeways such as the adoption of agriculture, the development of political-economic hierarchies,

and the disruptions that accompanied the arrival of Europeans to the continent.

**ANTHR 3000 Introduction to Anthropological Theory (CA-AS)**

Fall. 4 credits. P. Nadasdy.  
For description, see Sociocultural Anthropology.

**[ANTHR 3217 Stone Age Archaeology (also ARKEO 3217) (HA-AS)]**

Fall. 4 credits. Comparative survey. Next offered 2010–2011. T. Volman.]

**[ANTHR 3230 Humans and Animals (also ARKEO 3230) @ # (CA-AS)]**

Fall. 4 credits. Comparative survey. Next offered 2010–2011. N. Russell.]

**[ANTHR 3232 Politics of the Past (also ARKEO 3232) @ # (HA-AS)]**

Fall. 4 credits. Comparative survey. Next offered 2010–2011. N. Russell.]

**[ANTHR 3248 Iroquois Archaeology (also AIS/ARKEO 3248/6248, ANTHR 6248) # (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012. K. Jordan.]

**[ANTHR 3255 Ancient Mexico and Central America (also ARKEO 3255) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011. J. Henderson.]

**ANTHR 3256 Archaeology of the Andes (also ARKEO 3256) @ # (HA-AS)]**

Fall. 4 credits. J. Henderson.  
A survey of the rise and decline of civilizations in the Andean region of western South America before the European invasion. Key topics include the use of invasion-period and ethnographic information to interpret precolumbian societies, the emergence of settled farming life, and the development of the state.

**[ANTHR 3269 Gender and Age in Archaeology (also ANTHR 6269, ARKEO 3269/6269, FGSS 3700/6700) (SBA-AS)]**

Fall. 4 credits. Comparative survey. Next offered 2010–2011. N. Russell.]

**ANTHR 3270 Environmental Archaeology (also ANTHR 6270, ARKEO 3270/6270) (PBS Supplementary List)]**

Fall. 4 credits. Comparative survey. T. Volman.

A survey of selected topics in paleoenvironmental analysis and reconstruction, with emphasis on how they inform interpretations of the archaeological record. The course ranges broadly from a general consideration of human ecology and the role of environment in culture change to detailed study of specific techniques and approaches.

**ANTHR 3272 Hunters and Gatherers (also ANTHR 6272, ARKEO 3272/6272) @ # (SBA-AS)]**

Fall. 4 credits. Comparative survey. T. Volman.

A survey of contemporary and recent peoples with economies based completely or mainly on hunting and gathering. Selected societies from various parts of the world will be examined to compare aspects of technology, subsistence practices, organization and beliefs. The impact of contact with more economically advanced societies will be considered.

**ANTHR 4209 Approaches to Archaeology (also ARKEO 4209) (CA-AS)]**

Spring. 4 credits. K. Jordan.

An exploration of the concepts that have shaped modern archaeology. The course briefly examines the history of theoretical orientations in archaeology, then considers the variety of perspectives and interpretive frameworks that guide present-day investigations. Case studies illustrate the implications of the nature of the archaeological record for reconstructing subsistence and economic systems, trade, social and political organization, demography, and ideology. An undergraduate seminar especially recommended for undergraduate majors and graduate archaeologists but open to anyone with a serious interest in archaeology.

**[ANTHR 4256 Mesoamerican Religion, Science, and History (also ARKEO 4256, LATA 4250) @ # (CA-AS)]**

Spring. 4 credits. Next offered 2010–2011. J. Henderson.]

**[ANTHR 4258 Archaeological Analysis (also ANTHR/ARKEO 6258, ARKEO 4258) (SBA-AS)]**

Spring. 4 credits. Limited to 15 students. Prerequisite: archaeology course or permission of instructor. Next offered 2011–2012. J. Henderson.]

**[ANTHR 4260 Field and Analytical Methods in Archaeology (also ARKEO 4260) # (SBA-AS)]**

Spring. 4 or 6 credits. Next offered 2011–2012. K. Jordan.]

**[ANTHR 4262 Catalhoyuk and Archaeological Practice (also ANTHR/ARKEO 7262, ARKEO 4262) @ # (HA-AS)]**

Spring. 4 credits. Next offered 2011–2012. N. Russell.]

**ANTHR 4263 Zooarchaeological Method (also ARKEO 4263) (PBS Supplementary List)]**

Fall. 5 credits. N. Russell.

This is a hands-on laboratory course in zooarchaeological method: the study of animal bones from archaeological sites. It is designed to provide students with a basic grounding in identification of body part and taxon, aging and sexing, pathologies, taphonomy, and human modification. We will deal only with mammals larger than squirrels. While we will work on animal bones from prehistoric Europe, most of these skills are easily transferable to the fauna of other areas, especially North America. This is an intensive course that emphasizes laboratory skills in a realistic setting. You will analyze an assemblage of actual archaeological bones. It is highly recommended that students also take the course in Zooarchaeological Interpretation (ANTHR/ARKEO 4264) offered in the spring.

**ANTHR 4264 Zooarchaeological Interpretation (also ARKEO 4264) (PBS Supplementary List)]**

Spring. 4 credits. Prerequisite: permission of instructor. N. Russell.

This course follows from last semester's Zooarchaeological Method. We will shift our emphasis here from basic skills to interpretation, although you will continue to work with archaeological bones. We will begin by examining topics surrounding the basic interpretation of raw faunal data: sampling, quantification, taphonomy,

seasonality. We will then explore how to use faunal data to reconstruct subsistence patterns, social structure, and human/animal relations.

**[ANTHR 4267 Origins of Agriculture (also ARKEO 4267) # (HA-AS)]**

Spring. 4 credits. Next offered 2010–2011. N. Russell.]

**[ANTHR 4268 Myth, History, and Politics: The Aztecs and Their Empire (also ANTHR/ARKEO 7268, ARKEO 4268)]**

Spring. 4 credits. Next offered 2011–2012. J. Henderson.]

**[ANTHR 4270 Political Economy in Archaeology (also ANTHR/ARKEO 7270, ARKEO 4270) # (SBA-AS)]**

Fall. 4 credits. Next offered 2011–2012. K. Jordan.]

**ANTHR 4272 Historical Archaeology of Indigenous Peoples (also AMST 6272, ANTHR/ARKEO 7272, ARKEO/AMST 4272) # (HA-AS)]**

Fall. 4 credits. K. Jordan.

This seminar uses archaeology to examine the responses of nonstate indigenous peoples across the world to European expansion and colonialism over the past 500 years.

Archaeology provides a perspective on indigenous lives that both supplements and challenges document-based histories. We will assess the strengths and weaknesses of various theories of culture contact, and explore a series of archaeological case studies, using examples primarily from North America with lesser emphasis on Africa and the Pacific. The seminar provides a comparative perspective on indigenous-colonial relationships, in particular exploring the hard-fought spaces of relative autonomy created and sustained by indigenous peoples.

**[ANTHR 4294 Seminar in Archaeology: The Archaeology of Human Origins (also ARKEO 4294) (HA-AS)]**

Spring. 4 credits. T. Volman.

An exploration of the archaeological record associated with early modern and near-modern humans as well as their nonmodern contemporaries, such as the Neanderthals. Major issues include: what behaviors and capabilities are indicated for various populations, and how and why did these change over the course of the later Pleistocene? To what extent does the archaeological record support the "Out-of-Africa" hypothesis of a recent, African origin for all modern humans?]

## IV. Biological Anthropology

Biological anthropology is the subfield of anthropology that explores the physical diversity, evolutionary history, and behavioral potential of our species. Consistent with anthropology more generally, biological anthropology is concerned with human variation. The distinctive perspective of this subfield is that it examines human variation within the framework of evolutionary theory. Analyses of both biology and culture, and of the interaction between the two, mark the broad boundaries of this discipline. Within that wide scope, specific areas of inquiry are diverse, including fossil studies, primate behavior, nutrition and development, sexual behavior, parental investment, molecular and population genetics, adaptation to environmental stress, disease evolution, life history analysis, and more. Some of the most

pressing social issues of our time fall within the domain of biological anthropology as well as a range of professions: the controversy over evolution and intelligent design; race, gender, and genetic determinism; the control of disease; the roots of aggression; and conservation and the role of humans in ecological systems. Although the number of Anthropology courses offered in this subfield are limited, students can pursue their interests through a variety of related courses in other departments and by constructing independent study courses with specific faculty members.

**ANTHR 1300 Human Evolution: Genes, Behavior, and the Fossil Record (PBS Supplementary List)**

Spring. 3 credits. Lab usage and maintenance fee: \$5. A. Arcadi.

For description, see Introductory Courses.

**ANTHR 1401 The Scope of Anthropology**

Fall. 1 credit. Staff.

For description, see Introductory Courses.

**ANTHR 2750 Human Biology and Evolution (also NS 2750)**

Fall. 3 credits. J. D. Haas.

For description, see NS 2750.

**ANTHR 3000 Introduction to Anthropological Theory (CA-AS)**

Fall. 4 credits. P. Nadasdy.

For description, see Sociocultural Anthropology.

**ANTHR 3302 Anthropology of Everyday Life @ (SBA-AS)**

Fall. 4 credits. M. Small.

How can a subject as esoteric as anthropology affect our daily lives? This course will cover 14 individual subjects such as love, sex, competition, anger, war, self-deceit, marriage, work, play and look at them anthropologically, that is, from an evolutionary and cross-cultural viewpoint. Students will also be required to integrate their own experience and observation of with these subjects and demonstrate how their behavior, too, has an anthropological bent.

**[ANTHR 3305 Anthropology of Parenting @ (SBA-AS)]**

Spring. 4 credits. Next offered 2010-2011. M. Small.]

**ANTHR 3390 Primate Behavior and Ecology (PBS Supplementary List)**

Spring. 4 credits. Comparative survey.

Prerequisite: ANTHR 1300 or permission of instructor. A. Clark Arcadi.

The course will investigate all aspects of nonhuman primate life. Based on the fundamentals of evolutionary theory, group and inter-individual behaviors will be presented. In addition, an understanding of group structure and breeding systems will be reached through an evaluation of ecological constraints imposed on primates in different habitats. Subjects include: primate taxonomy, diet and foraging, predation, cooperation and competition, social ontogeny, kinship, and mating strategies.

**ANTHR 4390 Topics in Biological Anthropology**

Fall. 4 credits. Prerequisites: ANTHR 1300, 3390, or permission of instructor. M. Small.

Current topics in biological anthropology are explored. Topics change each semester. For further information, contact the professor or department office.

**V. Honors, Field Research, and Independent Study**

**ANTHR 4910 Independent Study: Undergrad I**

Fall or spring. Credit TBA. Prerequisite: undergraduate standing. Staff.

Independent reading course in topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

**ANTHR 4920 Independent Study: Undergrad II**

Fall or spring. Credit and times TBA.

Prerequisite: undergraduate standing. Staff.

For description, see ANTHR 4910, section II, "Honors and Independent Study."

**ANTHR 4983 Honors Thesis Research**

Fall. 3 credits. Prerequisite: permission of Honors Committee. Staff.

Research work supervised by the thesis advisor, concentrating on determination of the major issues to be addressed by the thesis, preparation of literature reviews, analysis of data, and the like. The thesis advisor will assign the grade for this course.

**ANTHR 4984 Honors Thesis Write-Up**

Spring. 2 credits. Staff.

Final write-up of the thesis under the direct supervision of the thesis advisor, who will assign the grade for this course.

**ANTHR 4991 Honors Workshop I Write-Up**

Fall. 1 credit. Staff.

Course will consist of several mandatory meetings of all thesis writers with the honors chair. These sessions will inform students about the standard thesis production timetable, format and content expectations, and deadlines; expose students to standard reference sources; and introduce students to each other's projects. The chair of the Honors Committee will assign the grade for this course.

**ANTHR 4992 Honors Workshop II**

Spring. 2 credits. Staff.

Course will consist of weekly, seminar-style meetings of all thesis writers until mid-semester, under the direction of the honors chair. This second semester concentrates on preparation of a full draft of the thesis by mid-semester, with ample time left for revisions prior to submission. Group meetings will concentrate on collective reviewing of the work of other students, presentation of research, and the like.

**Relevant courses in other departments**

**MUSIC 1302 Introduction to World Music II: Asia**

Spring. 3 credits. M. Hatch.

**MUSIC 1341 Gamelan in Indonesian History and Cultures**

Fall and spring. 3 credits. Prerequisite: permission of instructor. M. Hatch.

**BSOC/HD/NS 3470 Human Growth and Development: Biological and Behavioral Interactions**

Spring. 3 credits. J. Haas and S. Robertson.

**NS 6300 Anthropometric Assessment**

Spring. 1 credit. J. Haas.

**VI. Graduate Seminars**

The graduate program in anthropology is described in much greater detail on the anthropology department web page at [falcon.arts.cornell.edu/Anthro](http://falcon.arts.cornell.edu/Anthro). The seminars described immediately below pertain to the program in sociocultural anthropology. For information about graduate study in archaeology and biological anthropology, see the anthropology department web page.

A core set of seminars is required of all graduate students in sociocultural anthropology: ANTHR 6000 and 6010. ANTHR 6403 is strongly recommended. These courses are open to graduate students from other related fields. This sequence, and the graduate curriculum in general, is premised on the idea that anthropology is best defined as the comparative study of human social life. This definition resists institutional pressures in the academy to distinguish social science from humanistic or cultural studies and scholarly from more worldly applications. Our most important method, ethnography, is at once scientific and humanistic; disciplinary aspirations refuse to view cultural interpretation and analytic explanation as separable values. Furthermore, theory in anthropology is directly related to practice in the world whether in relation to research or more action-oriented pursuits. Consequently, the core sequences as well as most other courses for graduate students are oriented explicitly toward subverting an ideological construction of social life as separable into cultural and social (or political-economic) domains.

**ANTHR 6000 Proseminar: Culture and Symbol**

Fall. 6 credits. H. Miyazaki.

Focuses on an appreciation of symbolic, expressive, and representational forms and processes both as producers and products of social activities. Through the study of symbolic anthropology, structuralism, exchange, myth and ritual, religion, gender, personhood, linguistics, semiology, etc., the course investigates how identity and meaning are linked to the practical exigencies of social life. While emphasizing aspects of the discipline generally associated with cultural anthropology, the course endeavors to set the stage for a dialectical understanding of social, political, economic, and symbolic activities as interrelated phenomena. The works of de Saussure, Levi-Strauss, Dumont, Geertz, Victor Turner, Sahlins, among others, as well as contemporary theories are given careful attention.

**ANTHR 6010 Proseminar: Social Organization**

Spring. 6 credits. M. Welker.

Focuses on linkages between culture and social institutions, representations and practices. The nature of these linkages is debated from strongly contesting points of view in social theory (structuralist, poststructuralist, utilitarian, hermeneutic, Marxist). Unlike debates in critical theory where the form of contestation has been mainly philosophical, in anthropology, these issues have developed in ethnographic analyses. The course briefly surveys kinship theory and economic anthropology with a focus on implications for general issues in social theory. Discussion of attempts to develop dialectical syntheses around the motion of "practice" follows. The issues addressed in this section carry over into the

next, colonialism and post-colonialism, in which poststructuralist readings of history are counterposed to Marxist ones. Finally, Lacanian and Marxist visions of ideology as they relate to anthropological theory and ethnographic analysis are examined with particular emphasis on the cultural and social production of persons.

**[ANTHR 6248 Iroquois Archaeology (also ANTHR 3248, ARKEO/AIS 3248/6248)]**

Fall. 4 credits. Next offered 2011–2012.  
K. Jordan.]

**ANTHR 6256 Maya History (also ARKEO 6256)**

Fall. 4 credits. J. Henderson.  
An exploration of Maya understandings of their own history, drawing on ethnographic, historical, and archaeological sources. Analysis of hieroglyphic inscriptions from ancient Maya cities is a major focus.

**[ANTHR 6258 Archaeological Analysis (also ANTHR 4258, ARKEO 4258/6258)]**

Spring. 4 credits. Next offered 2011–2012.  
J. Henderson.]

**[ANTHR 6269 Gender and Age in Archaeology (also ANTHR/ARKEO 3269, ARKEO 6269, FGSS 6700)]**

Fall. 4 credits. Next offered 2010–2011.  
N. Russell.]

**ANTHR 6270 Environmental Archaeology (also ANTHR 3720, ARKEO 3270/6270)**

Fall. 4 credits. T. Volman.  
For description, see ANTHR 3270.

**ANTHR 6272 Hunters/Gatherers Past/Present (also ANTHR 3272, ARKEO 3272/6272)**

Fall. 4 credits. T. Volman.  
For description, see ANTHR 3272.

**[ANTHR 6371 Palaeoanthropology of South Asia (also ASIAN 6671, BIOEE 6710)]**

Fall. 3 credits. Next offered 2011–2012.  
K. A. R. Kennedy.]

**[ANTHR 6373 Human Evolution: Concepts, History, and Theory (also BIOEE 6730)]**

Fall. 3 credits. Prerequisite: one year introductory biology, ANTHR 1300, or permission of instructor. Offered alternate years. Next offered 2011–2012.  
K. A. R. Kennedy.]

**[ANTHR 6403 Ethnographic Field Methods (also ANTHR 4403)]**

Fall. 4 credits. Next offered 2010–2011.  
V. Santiago-Irizarry.]

**[ANTHR 6421 Gender and Culture (also FGSS 6310)]**

Fall. 4 credits. Next offered 2011–2012.  
K. March.]

**ANTHR 6422 Culture, Politics, and Environment in the Circumpolar North (also ANTHR 3422)**

Spring. 4 credits. P. Nadasdy.  
For description, see ANTHR 3422.

**[ANTHR 6424 Ethnoracial Identity in Anthropology, Language, and Law (also AMST/LSP 6424)]**

Spring. 4 credits. Next offered 2011–2012.  
V. Santiago-Irizarry.]

**ANTHR 6430 Concepts and Categories in Theory and Practice**

Fall. 4 credits. P. Nadasdy.

Concepts and categories form the basis of much human thought and action, and anthropologists have long been fascinated by how humans categorize the world. Yet, concepts and categories shape anthropological thought and practice as well. The conceptual tools we bring to bear in the study of sociocultural phenomena profoundly shape our understandings of them. Despite this, however, many of the concepts and categories that anthropologists and other social scientists use are implicit in their work rather than consciously theorized. The goal of this course is to make students aware of the role that concepts and categories play in the practice of social science and to provide them with the theoretical tools needed to evaluate conceptual frameworks in the social sciences.

**ANTHR 6440 Research Design**

Spring. 4 credits. K. March.

This seminar focuses on preparing a full-scale proposal for anthropological fieldwork for a dissertation. Topics include identifying of appropriate funding sources; defining a researchable problem; selecting and justifying a particular fieldwork site; situating the ethnographic case within appropriate theoretical contexts; selecting and justifying appropriate research methodologies; developing a feasible timetable for field research; ethical considerations and human subjects protection procedures; and preparing appropriate budgets. This is a writing seminar, and students will complete a proposal suitable for submission to a major funding agency in the social sciences.

**[ANTHR 6450 Social Studies of Economics and Finance]**

Fall. 4 credits. Next offered 2011–2012.  
H. Miyazaki.]

**[ANTHR 6452 Evidence: Ethnography and Historical Method]**

Fall. 4 credits. Next offered 2012–2013.  
H. Miyazaki.]

**[ANTHR 6461 Anthropology of Organizations (also ANTHR 3461)]**

Spring. 4 credits. D. Greenwood. Next offered 2010–2011.]

**[ANTHR 6462 Democratizing Research (also ANTHR 3462)]**

Fall. 4 credits. D. Greenwood. Next offered 2010–2011.]

**ANTHR 6465 Anthropology of the Body (also ANTHR 3465)**

Fall. 4 credits. S. Langwick.  
For description, see ANTHR 3465.

**[ANTHR 6479 Technocracy: Anthropological Approaches]**

Spring. 4 credits. Next offered 2011–2012.  
A. Riles.]

**[ANTHR 6480 Anthropology and Globalization (also ANTHR 4480)]**

Fall. 4 credits. Next offered 2011–2012.  
Staff.]

**[ANTHR 6482 Perspectives on the Nation]**

Spring. 4 credits. Next offered 2011–2012.  
V. Munasinghe.]

**[ANTHR 6542 Violence, Symbolic Violence, Terror and Trauma in South Asia and the Himalayas (also ANTHR 4542)]**

Fall. 4 credits. Next offered 2011–2012.  
D. Holmberg.]

**ANTHR 6543 Chinese Ethnology**

Fall. 4 credits. S. Sangren and M. Fiskesjo.  
This seminar is designed for graduate students specializing in the study of Chinese culture and society and for advanced undergraduates who plan to pursue careers in the academic study of Chinese culture. The course focuses on close readings on theoretical and conceptual problems and issues in the study of Chinese culture and society, with an emphasis on perspectives provided by cultural anthropology. Among topics that may be included are the social production of gender, ideology in myth and ritual, the cultural uses of history, and political culture; however, the particular emphases of the seminar may vary from year to year. Those with a reading knowledge of Chinese will be encouraged to explore Chinese sources, but use of such sources is not a requirement of the course.

**ANTHR 7000 Development of Anthropological Thought (also ANTHR 4000)**

Fall. 4 credits. Staff.  
For description, see ANTHR 4000.

**[ANTHR 7262 Catalhoyuk and Archaeological Practice (also ANTHR 4262)]**

Spring. 4 credits. Next offered 2011–2012.  
N. Russell.]

**[ANTHR 7268 Myth, History, and Politics: The Aztecs and Their Empire (also ANTHR/ARKEO 4268, ARKEO 7268)]**

Spring. 4 credits. Next offered 2011–2012.  
J. Henderson.]

**[ANTHR 7270 Political Economy in Archaeology (also ANTHR 4270, ARKEO 4270/7270)]**

Fall. 4 credits. Next offered 2011–2012.  
K. Jordan.]

**ANTHR 7272 Historical Archaeology of Indigenous Peoples (also AMST 6272, AMST/ARKEO 4272, ARKEO 7272)**

Fall. 4 credits. K. Jordan.  
For description, see ANTHR 4272.

**ANTHR 7419 Anthropology of Corporations (also ANTHR 4419)**

Spring. 4 credits. M. Welker.  
For description, see ANTHR 4419.

**ANTHR 7426 Ideology and Social Production (also ANTHR 4426)**

Spring. 4 credits. S. Sangren.  
For description, see ANTHR 4426.

**ANTHR 7429 Anthropology and Psychoanalysis (also ANTHR 4429)**

Fall. 4 credits. S. Sangren.  
For description, see ANTHR 4429.

**[ANTHR 7437 Anthropology of Development (also ANTHR 4437)]**

Fall. 4 credits. Next offered 2010–2011.  
M. Welker.]

**[ANTHR 7444 God(s) and the Market (also ANTHR 4444)]**

Spring. 4 credits. Next offered 2012–2013.  
H. Miyazaki.]

**ANTHR 7520 Southeast Asia: Readings in Special Problems**

Fall or spring. Credit TBA. Staff.  
Independent reading course on topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

**ANTHR 7523 Making History on the Margins: The China-SE Asia Borderlands (also ANTHR 4523)**

Fall. 4 credits. M. Fiskesjo.  
For description, see ANTHR 4523.

**ANTHR 7530 South Asia: Readings in Special Problems**

Fall or spring. Credit TBA. Staff.  
Independent reading course in topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

**ANTHR 7545 Peoples and Cultures of the Himalayas (also ANTHR 3545)**

Fall. 4 credits. K. March.  
For description, see ANTHR 3545.

**ANTHR 7550 East Asia: Readings in Special Problems**

Fall or spring. Credit TBA. Staff.  
Independent reading course in topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

**ANTHR 7910 Independent Study: Grad I**

Fall or spring. Credit TBA. Prerequisite: graduate standing. Staff.  
Independent reading course in topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

**ANTHR 7920 Independent Study: Grad II**

Fall or spring. Credit TBA. Prerequisite: graduate standing. Staff.  
For description, see ANTHR 7910.

**ANTHR 7930 Independent Study: Grad III**

Fall or spring. Credit TBA. Prerequisite: graduate standing. Staff.  
For description, see ANTHR 7910.

## ARABIC AND ARAMAIC

See "Department of Near Eastern Studies."

## ARCHAEOLOGY

S. Baugher, director (Landscape Architecture), K. M. Clinton, director of graduate studies (Classics), A. Alexandridis (History of Art), K. Bowes (Classics), J. E. Coleman (Classics), M. Fiskesjo (anthropology), F. Gleach (Anthropology), K. L. Gleason (Landscape Architecture), J. S. Henderson (Anthropology), K. Jordan (Anthropology), K. A. R. Kennedy (Ecology and Evolutionary Biology), S. Manning (Classics), R. McNeal (Asian Studies), C. Monroe (Near Eastern Studies), L. Monroe (Near Eastern Studies), D. I. Owen (Near Eastern Studies), A. Ramage (History of Art), E. Rebillard (Classics), N. Russell (Anthropology), B. S. Strauss (History), M. A. Tomlan (City and Regional Planning), T. P. Volman, director of undergraduate studies (Anthropology), J. R. Zorn (Near Eastern Studies).

Archaeology is an interdisciplinary field at Cornell, which is one of the few universities in the United States to offer a separate archaeology major and a master's degree. Program faculty members, affiliated with several departments, coordinate course offerings and help students identify

opportunities for fieldwork, graduate study, and professional positions.

### The Major

Prospective majors must complete ARKEO 1200 or one of the basic courses as defined below before they will be admitted to the major.

Because the major draws on the teaching and research interests of faculty from many departments to present a broad view of the archaeological process, interested students should discuss their course of study with a participating faculty member as early as possible. In some areas of specialization, intensive language training should be coordinated with other studies as early as the freshman year.

Once admitted to the major, students must take at least 32 additional credits from the courses listed below, or from related fields selected in consultation with a major advisor of their choosing. The courses chosen should provide exposure to a broad range of cultures known through archaeology and the methods of uncovering and interpreting them. Sixteen of the credit hours should be at the 3000 level or above. At least two courses must be taken from each of the following categories: II. Anthropological Archaeology; III. Classical, Near Eastern, and Medieval Archaeology; and IV. Methodology and Technology. Only 4 credits of ARKEO 3000 Individual Study or other supervised study can count toward the major.

Courses basic to the discipline of archaeology are marked with the word "Basic" after the number of credit hours. It is recommended that majors who are planning to pursue graduate studies in archaeology take at least two of the basic courses in each category. Further courses in languages and geology are also recommended.

**Honors.** Honors in archaeology are awarded on the basis of the quality of an honors essay and the student's overall academic record. Prospective honors students should have at least a 3.5 GPA in the major and a 3.0 grade point average overall. They should consult with the director of undergraduate studies by the beginning of the senior year. The honors essay is normally prepared over two semesters in consultation with a faculty advisor during the senior year. Students may enroll in ARKEO 4981 Honors Thesis Research, and to complete the thesis, they may enroll in ARKEO 4982 Honors Thesis Writeup. Both courses are offered in the fall and spring. Only ARKEO 4981 may count toward hours for completion of the archaeology major requirements. The credit hours for these courses are variable.

**Fieldwork.** Every student should gain some practical experience in archaeological fieldwork on a project authorized by his or her advisor. This requirement may be waived in exceptional circumstances. The Jacob and Hedwig Hirsch bequest provides support for a limited number of students to work at excavations sponsored by Cornell and other approved institutions.

### The Minor

Students in Cornell schools and colleges other than Arts and Sciences may elect a minor in archaeology. To minor in archaeology, the student must complete five courses, all with a grade of C or better. The five courses must consist of either (1) ARKEO 1200 and four other courses from categories II-IV (described

above), at least three of which must be basic courses, or (2) five courses from categories II-IV, at least four of which must be basic courses. Minors are encouraged to gain some fieldwork experience. They are eligible for Hirsch Scholarships in support of fieldwork on the same basis as majors.

## First-Year Writing Seminars

For course descriptions, see the First-Year Writing Program brochure.

## I. Introductory Courses and Independent Study Courses

**ARKEO 1200 Ancient Peoples and Places (also ANTHR 1200) # @ (HA-AS)**

Spring. 3 credits. Basic. F. Gleach.  
Broad introduction to archaeology: the study of material remains to answer questions about the human past. Case studies highlight the variability of ancient societies and illustrate the varied methods and interpretive frameworks archaeologists use to reconstruct them. This course can serve as a platform for both archaeology and anthropology undergraduate majors.

**ARKEO 3000 Individual Study in Archaeology and Related Fields**

Fall and spring. Credit TBA. Prerequisite: ARKEO 1200 or permission of instructor. Undergraduate students pursue topics of particular interest under the guidance of a faculty member.

**ARKEO 4981 Honors Thesis Research**

Fall or spring. 4 credits, variable.  
Prerequisite: admission to honors program. Independent work under the close guidance of a faculty member.

**ARKEO 4982 Honors Thesis Writeup**

Fall or spring. 4 credits, variable.

**ARKEO 6000 Special Topics in Archaeology**

Fall and spring. 4 credits, variable.  
Graduate students pursue advanced topics of particular interest under the guidance of a faculty member(s).

**ARKEO 8901-8902 Master's Thesis**

8901, fall; 8902, spring. 4 credits, variable.  
Prerequisite: master's students in archaeology. S-U grades only. Students, working individually with faculty member(s), prepare a master's thesis in archaeology.

## II. Anthropological Archaeology

**ARKEO 2200 Early People: The Archaeological and Fossil Record (also ANTHR 2200) # (HA-AS)**

Spring. 3 credits. Basic. T. P. Volman.  
For description, see ANTHR 2200.

**ARKEO 2201 Early Agriculture (also ANTHR 2201) @ # (HA-AS)**

Spring. 3 credits. Basic. N. Russell.  
For description, see ANTHR 2201.

**[ARKEO 2215 Stone Age Art (also ANTHR 2215) # (CA-AS)]**

Fall. 3 credits. Basic. Next offered 2010-2011. T. P. Volman.]

**ARKEO 2235 Archaeology of North American Indians (also AIS/AMST 2350, ANTHR 2235) # (HA-AS)**

Spring. 3 credits. Basic. K. Jordan.  
For description, see ANTHR 2235.

**[ARKEO 3217 Stone Age Archaeology (also ANTHR 3217) (HA-AS)]**

Fall. 4 credits. Basic. Next offered 2010–2011. T. P. Volman.]

**[ARKEO 3230 Humans and Animals (also ANTHR 3230) @ # (CA-AS)]**

Fall. 4 credits. Next offered 2010–2011. N. Russell.]

**[ARKEO 3232 Politics of the Past (also ANTHR 3232) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011. N. Russell.]

**[ARKEO 3248 Iroquois Archaeology (also AIS 3428/6428, AMST/ANTHR/ARKEO 6248) # (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012. K. Jordan.]

**[ARKEO 3255 Ancient Mexico and Central America (also ANTHR 3255) @ # (HA-AS)]**

Fall. 4 credits. Basic. Next offered 2010–2011. J. Henderson.]

**ARKEO 3256 Archaeology of the Andes (also ANTHR/LATA 3256) @ # (HA-AS)]**

Fall. 4 credits. Basic. J. Henderson. For description, see ANTHR 3256.

**[ARKEO 3269 Gender and Age in Archaeology (also ANTHR 3269/6269, FGSS 3700/6700) (SBA-AS)]**

Fall. 4 credits. Next offered 2010–2011. N. Russell.]

**ARKEO 3272 Hunters and Gatherers (also ANTHR 3272/6272, ARKEO 6272) @ # (SBA-AS)]**

Fall. 4 credits. T. Volman. For description, see ANTHR 3272.

**[ARKEO 3600 Preindustrial Cities and Towns in North America (also LA 3600, CRP 3600)]**

Spring. 3 credits. Next offered 2010–2011. S. Baugher.]

**[ARKEO 4256 Mesoamerican Religion, Science, and History (also ANTHR 4256) @ # (CA-AS)]**

Spring. 4 credits. Next offered 2010–2011. J. Henderson.]

**[ARKEO 4262 Cataloyuk and Archaeological Practice (also ANTHR 4262, ARKEO/ANTHR 7262) @ # (HA-AS)]**

Spring. 4 credits. Next offered 2011–2012. N. Russell.]

**[ARKEO 4268 Myth, History, and Politics: the Aztecs and their Empire (also ANTHR 4268, ARKEO/ANTHR 7268)]**

Spring. 4 credits. Next offered 2011–2012. J. Henderson.]

**[ARKEO 4270 Political Economy in Archaeology (also ANTHR 4270, ARKEO/ANTHR 7270) # (SBA-AS)]**

Fall. 4 credits. Next offered 2011–2012. K. Jordan.]

**ARKEO 4272 Historical Archaeology of Indigenous Peoples (also AIS 4270, AMST 4272, ANTHR/ARKEO 4272/7272) # (HA-AS)]**

Fall. 4 credits. K. Jordan. For description, see ANTHR 4272.

**ARKEO 4294 Seminar in Archaeology: The Archaeology of Human Origins (also ANTHR 4294) (HA-AS)]**

Spring. 4 credits. T. P. Volman. For description, see ANTHR 4294.

**[ARKEO 6248 Iroquois Archaeology (also AIS 3480/6480, AMST 6248, ANTHR 3248/6248, ARKEO 3248)]**

Fall. 4 credits. Next offered 2011–2012. K. Jordan.]

**ARKEO 6256 Maya History (also ANTHR 6256)]**

Fall. 4 credits. J. Henderson. For description, see ANTHR 6256.

**[ARKEO 6269 Gender and Age in Archaeology (also ANTHR 3269/6269, ARKEO 3269, FGSS 3700/6700)]**

Fall. 4 credits. Next offered 2010–2011. N. Russell.]

**[ARKEO 7268 Myth, History, and Politics: the Aztecs and their Empire (also ANTHR 7268, ARKEO/ANTHR 4268)]**

Spring. 4 credits. Next offered 2011–2012. J. Henderson. For description, see ANTHR 4268.]

**[ARKEO 7270 Political Economy in Archaeology (also ANTHR 4270/7270, ARKEO 4270)]**

Fall. 4 credits. Next offered 2011–2012. K. Jordan.]

**ARKEO 7272 Historical Archaeology of Indigenous Peoples (also AIS 7720, AMST 4272/6272, ANTHR 4272/7272, ARKEO 4272)]**

Fall. 4 credits. K. Jordan. For description, see ANTHR 4272.

**III. Classical, Near Eastern, and Medieval Archaeology****ARKEO 2661 Ships and Seafaring—Intro to Nautical Archaeology (also JWST/NES 2661) @ # (HA-AS)]**

Fall. 3 credits. Basic. C. Monroe. For description, see NES 2661.

**ARKEO 2668 Ancient Egyptian Civilization (also JWST/NES 2668) @ # (HA-AS)]**

Spring. 3 credits. Basic. C. Monroe. For description, see NES 2668.

**CLASS 2700 Introduction to Art History: The Classical World (also ARTH 2200) # (HA-AS)]**

Fall. 4 credits. Basic. K. McDonnell. For description, see CLASS 2700.

**[ARKEO 2728 Art and Archeology of the Ancient Mediterranean World (also ARTH 2227, CLASS 2727) # (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012. S. Manning.]

**[ARKEO 2743 Archaeology/Roman Private Life (also ARTH 2221, CLASS 2743) # (CA-AS)]**

Spring. 3 credits. Next offered 2011–2012. A. Alexandridis.]

**ARKEO 2744 Archaeology of Greek Private Life (also CLASS/HIST 2744, ARTH 2222) # (CA-AS)]**

Spring. 3 credits. K. Bowes. For description, see CLASS 2744.

**ARKEO 3588 Archaeology of the Lands of the Bible (also NES/JWST 3588)]**

Spring. 4 credits. L. Monroe. For description, see NES 3588.

**[ARKEO 3661 Sumerian Language and Culture I (also JWST/NES 3661) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011. D. Owen.]

**[ARKEO 3665 Ancient Iraq II: 2000–331 BCE (also NES 3665) (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011. D. Owen.]

**[ARKEO 3666 History and Archaeology of the Ancient Near East (also ARKEO/JWST/NES 3666/6666) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011. D. Owen. For description, see NES 3666.]

**[ARKEO 3730 Archaeology, Ethics, and Nationalism (also CLASS 3730, HIST 3630) # (CA-AS)]**

Spring. 3 credits. Next offered 2010–2011. K. Bowes.]

**[ARKEO 3731 Archaeology/Ancient Mediterranean Religion (also CLASS 3731) # (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012. K. Bowes. For description, see CLASS 3731.]

**ARKEO 3800 Introduction to the Arts of China (also ARTH 3800) @ # (LA-AS)]**

Fall. 4 credits. A. Pan. For description, see ARTH 3800.

**[ARKEO 4644 Late Bronze Age World of Ugarit (also ARKEO/JWST/NES 6644, JWST/NES 4644)]**

Spring. 4 credits. Next offered 2010–2011. C. Monroe.]

**[ARKEO 6644 Late Bronze Age World of Ugarit (also ARKEO/JWST/NES 4644, NES/JWST 6644)]**

Spring. 4 credits. Next offered 2010–2011. C. Monroe.]

**[ARKEO 6666 History and Archaeology of the Ancient Near East (also ARKEO/JWST/NES 3666, JWST/NES 6666)]**

Fall. 4 credits. Next offered 2010–2011. D. Owen.]

**ARKEO 7729 Emergence of Greek Civilization (also CLASS 7729)]**

Spring. 4 credits. S. Manning. For description, see CLASS 7729.

**LA 5450 The Parks and Fora of Imperial Rome**

Spring. 3 credits. Prerequisites: advanced standing in design field, classics, or history of art, or permission of instructor. K. Gleason.

**IV. Methodology and Technology****ARKEO 2220 Field Course in Iroquois Archaeology (also ANTHR 2220) (SBA-AS)]**

Summer only. 3 credits. K. Jordan. For description, see ANTHR 2220.

**[ARKEO 2728 Art and Archaeology in the Ancient Mediterranean World (also ARTH 2227, CLASS 2727)]**

Fall. 4 credits. Basic. Next offered 2010–2011. S. Manning.]

**[ARKEO 2756 Practical Archaeology (also CLASS 2756)]**

**ARKEO 2610 Urban Archaeology (also CRP/LA 2610)**

Fall. 3 credits. Basic. S. Baugher.  
For description, see LA 2610.

**ARKEO 2620 Laboratory in Landscape Archaeology (also LA 2620)**

Spring. 3 credits. Basic. S. Baugher.  
For description, see LA 2620.

**ARKEO 3002 Archaeology Underwater**

Summer only. 2 credits. Off campus at Shoals Marine Lab. N. Brady.  
This course outlines the development of maritime archaeology as it has emerged from more traditional terrestrial archaeology and the still-young discipline of underwater archaeology. As its primary examples, the course focuses on the archaeology of the Isles of Shoals within the Gulf of Maine; it also conducts onsite survey and site investigations to create an in-depth archaeological and historical study of the isles. Students participate in active fieldwork, including foreshore study and underwater exploration.

**ARKEO 3003 Island Archaeology**

Summer only. 2 credits. Off campus at Shoals Marine Lab. N. Hamilton.  
The objective of this course will be to train students in standardized and innovative methods and technology used in archaeological surveys, excavations, assessments, research, and compliance work. Course work will include documentation, reporting, and completion of architectural, historic, and prehistoric site survey and excavation forms suitable for historic reservation submission. Students will be able to develop research designs and strategies for Phase I, II, and III archaeological investigations. Field logistics, scheduling, ethics, public relations, and personnel-management training will be included. The Register of Professional Archaeology standards and practice will be used as a guide.

**ARKEO 3090 Introduction to Dendrochronology (also ARTH 3250, CLASS 3750) # (HA-AS)**

Fall. 4 credits. Limited to 10 students.  
Prerequisite: permission of instructor. Letter grades only. S. Manning.  
For description, see CLASS 3750.

**ARKEO 3270 Environmental Archaeology (also ANTHR 3270/6270, ARKEO 6270) (PBS Supplementary List)**

Fall. 4 credits. T. P. Volman.  
For description, see ANTHR 3270.

**[ARKEO 4020 Designing Archaeological Exhibits (also ARKEO 6020)**

Fall. Variable credit. Letter grades only.  
Next offered 2010-2011. S. Baugher.]

**[ARKEO 4258 Archaeological Analysis (also ANTHR 4258/6258, ARKEO 6258) (SBA-AS)**

Spring. 4 credits. Limited to 15 students.  
Prerequisite: archaeology course or permission of instructor. Next offered 2011-2012. J. S. Henderson.]

**[ARKEO 4260 Field and Analytical Methods in Archaeology (also ANTHR 4260) # (SBA-AS)**

Spring. 4 or 6 credits. Next offered 2011-2012. K. Jordan.]

**ARKEO 4263 Zooarchaeological Method (also ANTHR 4263) (PBS Supplementary List)**

Fall. 5 credits. N. Russell.  
For description, see ANTHR 4263.

**ARKEO 4264 Zooarchaeological Interpretation (also ANTHR 4264) (PBS Supplementary List)**

Spring. 4 credits. Prerequisites: ANTHR/ARKEO 4263; permission of instructor.  
N. Russell.  
For description, see ANTHR 4264.

**[ARKEO 4267 Origins of Agriculture (also ANTHR 4267) # (HA-AS)**

Spring. 4 credits. Next offered 2010-2011.  
N. Russell.]

**ARKEO 4370 Geophysical Field Methods (also EAS 4370) (PBS)**

Fall. 3 credits. Prerequisite: PHYS 2213 or 2208 or permission of instructor.  
L. D. Brown.  
For description, see EAS 4370.

**ARKEO 4600 Late Quaternary Paleocology (also EAS 4600) (PBS)**

Fall. 4 credits. M. Goman.  
For description, see EAS 4600.

**[ARKEO 4903 Methods in the Study of the Ancient Near East (also JWST/NES 4903)**

Spring. 4 credits. Next offered 2010-2011.  
D. Owen.  
For description, see NES 4903.]

**ARKEO 6000 Special Topics in Archaeology**

Fall and spring. 4 credits. Staff.

**[ARKEO 6020 Designing Archaeological Exhibits (also ARKEO 4020)**

Spring. Variable credit. Letter grades only.  
Next offered 2010. S. Baugher.]

**ARKEO 6270 Environmental Archaeology (also ANTHR 3270/6270, ARKEO 3270)**

Fall. 4 credits. T. P. Volman.  
For description, see ANTHR 3270.

**ARKEO 6510 Advanced Fieldwork in Historical Archaeology (also ARKEO 4510)**

Fall. 4 credits. S. Baugher.

**ARKEO 6520 Advanced Laboratory in Historical Archaeology (also ARKEO 4520)**

Spring. 3 credits. S. Baugher.  
This is a course for archaeology majors and minors who want to obtain more in-depth skills in laboratory work, identification and cataloguing of historic period ceramics, glass, and metal. The course will provide the students with skills to undertake laboratory analysis of artifacts. Students will undertake independent research projects on specific artifacts (in lieu of a term paper).

**[ARKEO 7742 Research Methods in Archaeology (also CLASS 7742)**

Spring. 4 credits. S. Manning. Next offered 2010-2011.]

**[BIOEE 6710 Paleoanthropology of South Asia (also ANTHR 6371, ASIAN 6672)**

Fall. 3 credits. Next offered 2011-2012.  
K. A. R. Kennedy.]

**V. Relevant Courses at Ithaca College**

Contact Sherene Baugher in Landscape Architecture at [sbb8@cornell.edu](mailto:sbb8@cornell.edu) or the Ithaca College Anthropology Department at 274-1331 for further information or visit their web site at [www.ithaca.edu/hs/anthro](http://www.ithaca.edu/hs/anthro).

Prehistory of South America. M. Malpass.  
Every other year.

New World Complex Societies. M. Malpass.  
Irregular offering.

Archaeological Methods and Techniques.  
M. Malpass. Fall 2008.

Archaeology of Colonial America. S. Stull. Fall 2008.

World Prehistory. J. Rossen. Every semester.

North American Prehistory. J. Rossen. Every year.

People, Plants, and Culture: Archaeobotany and Ethnobotany. J. Rossen. Every other year.

Seminar: Hunter-Gatherers. J. Rossen. Every other year.

Seminar: Origins of Agriculture. J. Rossen.  
Every other year.

Ethnoarchaeology. J. Rossen. Every other year.

Archaeological Field School.

**ASIAN STUDIES**

R. McNeal, chair (350 Rockefeller Hall, 255-5095); A. Blackburn, B. Bledsoe, D. Boucher, T. Chalomentiarana, M. Chapman, B. de Bary, S. Divo, W. George, D. Gold, G. Green, E. Gunn, B. Herath, H. Huang, S. Ichikawa, N. Jagacinski, J. Kanemitsu, Y. Katagiri, N. Larson, J. M. Law, L. McCrear, D. McKee, Y. Lee-Mehta, S. Mukherjee, S. Oja, J. Pandin, L. Paterson, H. Phan, B. Rusk, N. Sakai, T. Savella, W. Shao, S. Singh, M. Song, R. Sukle, M. Suzuki, K. Taylor, Q. Teng, T. Tranviet, S. Tun, D. X. Warner, L. Zheng; Emeritus: K. Brazell, T. L. Mei, J. Wolff; Associated Faculty: A. Carlson, J. Chen, Z. Chen, S. Cochran, A. Cohn, M. Fiskesjo, M. Hatch, R. Herring, T. J. Hinrichs, K. Hirano, D. Holmberg, M. Katzenstein, K. Kennedy, V. Koschmann, T. Loos, T. Lyons, K. March, S. Martin, K. McGowan, H. Miyazaki, S. Mohanty, V. Munasinghe, V. Nee, A. Nussbaum, A. Pan, P. Sangren, J. Siegel, E. Tagliacozzo, N. Uphoff, J. Whitman, A. Willford

The Department of Asian Studies and associated faculty members in other departments encompass the study of East Asia, South Asia, and Southeast Asia and offer courses in most of the disciplines of the social sciences and the humanities. Over 40 faculty members specialize in topics arranged under our rubrics of "Literature and Linguistics," "Religion," and "Society and Culture," as well as offering more broad courses under our "General Education" heading. Asian Studies courses through the 4400 level (ASIAN is the prefix) are taught in English and are open to all students in the university. Some of these courses may be counted toward majors in other departments; others fulfill various distribution requirements.

**The Major**

To become an Asian Studies major, a student must first successfully complete with a minimum grade of B at least two Asia content courses (excluding writing seminars), one of which may be a language course. Applications to major in Asian Studies must be approved by the director of undergraduate studies.

Completion of the major requires completion of two years of an Asian language or the demonstration of equivalent proficiency. To demonstrate equivalent proficiency, a student with prior background in the language should attempt to test into a desired language course at the 2200 level or beyond. Completing two courses at the 2200 level, or the second semester of such a sequence (while testing out of the first semester), or testing into a language course beyond the 2200 level, serves to demonstrate proficiency. Once proficiency has been demonstrated, students may count up to 6 units of further language study among the 30 Asian Studies units required of departmental majors. These 30 units must be taken from courses numbered 2200 and above and including at least one from two of the Asian Studies categories of "Literature and Linguistics" (LL), "Religion" (RL), and "Society and Culture" (SC); at least one course at the 3300 level; and at least one course at the 4400 level or above. A minimum grade of B must be received in all of these courses. Courses taken for major credit must be taken for a grade rather than as S–U. Certain courses about Asia offered in other departments at the 1100 level may, at the discretion of the advisor and the DUS, be counted toward our major as if they were 2200-level courses, e.g., HIST/ASIAN 1191, 1192.

Category Key: Courses in Asian Studies are broken into different categories. To determine which category a course falls in, please note the reference at the end of each course description. The key is as follows: GE = General Education, LL = Literature and Linguistics, RL = Religion and SC = Society and Culture.

### Honors

To be eligible for honors in Asian Studies, a student must have a cumulative GPA of 3.7 in all Asian Studies area courses and must successfully complete an honors essay during the senior year. Students who wish to be considered for honors should apply to the director of undergraduate studies during the second semester of their junior year. The application must include an outline of the proposed project and the endorsement of a supervisor chosen from the Asian Studies advising faculty. During the first term of the senior year, the student does research for the essay in conjunction with an appropriate Asian Studies course or ASIAN 4401. By the end of the first term, the student must present a detailed outline of the honors essay and have it approved by the project supervisor and the director of undergraduate studies. The student is then eligible for ASIAN 4402, the honors course, which entails the writing of the essay. At the end of the senior year, the student has an oral examination (with at least two faculty members) covering both the honors essay and the student's area of concentration.

### Minor in East Asia Studies

A candidate for the bachelor of arts or science degree at Cornell may take a minor in East Asian studies by completing at least 18 units of course work in East Asian studies.

Students normally take five courses in East Asian Studies from those East Asian courses listed (China, Japan, Korea) either under Asian Studies or Asian-related courses taught outside of the Asian Studies department. Of these,

nonlanguage courses should be selected at the 2200 level or above. Two courses in an East Asian language at the 1100 level or above may be counted toward the minor. Language study is strongly encouraged. East Asian graduate courses may also be taken for the minor, as well as East Asia–related courses with a research paper on an East Asian topic. Appropriate courses taken through Cornell Abroad in East Asia may also be counted toward the minor. A minimum grade of B must be received for all courses counted toward the minor. S–U courses are ineligible. Students minoring in East Asian Studies should select an advisor from the East Asia Program faculty for consultation on their course of study. For more information, contact the Department of Asian Studies, 350 Rockefeller Hall, 255-5095, or [lrc.cornell.edu/asian](http://lrc.cornell.edu/asian).

### Minor in South Asia Studies

A candidate for the bachelor of arts or science degree at Cornell may achieve a minor in South Asia Studies by completing at least 18 units of course work (typically five courses) in South Asian Studies. These courses are selected from South Asia courses listed under the Department of Asian Studies, or from other Asia-related courses offered by other departments. Of these, nonlanguage courses should be selected at the 2200 level or above. Two courses in an South Asian language at the 1100 level or above may be counted toward the minor. Language study is strongly encouraged. Appropriate South Asia graduate course work may be included in the minor with consent of the instructor and the advisor. One South Asia–related course with a research paper on a South Asia subject may be included with the consent of the advisor and the director of undergraduate studies. A minimum grade of B must be received for all courses toward the Minor. S–U courses are ineligible. Students minoring in South Asian Studies are considered members of the South Asia Program and will have an advisor from the program faculty. (This advisor will supervise a student's minor and does not substitute for a student's major advisor.) For more information, contact the Department of Asian Studies, 350 Rockefeller Hall, 255-5095, or [lrc.cornell.edu/asian](http://lrc.cornell.edu/asian).

### Minor in Southeast Asia Studies

A candidate for the bachelor of arts or science degree at Cornell may take a minor in Southeast Asian Studies by completing 18 units of course work, including a history course and 3 courses or seminars at the intermediate or advanced level. Up to 2 Southeast Asian language courses at the 1100 level or above may be included in the minor courses. A recommended plan would include ASIAN 2208 and 4 additional courses. A minimum grade of B must be received for all courses counted toward the minor. S–U courses are ineligible. Students taking a minor in Southeast Asian Studies are members of the Southeast Asia Program and will have an advisor from the Southeast Asia program faculty. Such students are encouraged to commence work on a Southeast Asian language either at the 10-week intensive courses offered by the Southeast Asia Studies Summer Institute (SEASSI) or by studying for a semester at IKIP Malang, Indonesia; Khon Kaen University, Thailand; or Hanoi University, Vietnam. Fellowships are available for undergraduates through the Cornell Abroad

Program. For more information, contact the Department of Asian Studies, 350 Rockefeller Hall, 255-5095, or [lrc.cornell.edu/asian](http://lrc.cornell.edu/asian).

### Intensive Language Program (FALCON)

The FALCON Program offers intensive instruction in either Japanese or Mandarin Chinese. Aside from the exclusive language schools of some government agencies, FALCON is the only program in the world that offers a full year of intensive instruction beginning at the elementary level and continuing through the advanced level. FALCON is a full-time program; the degree of intensity does not allow students to enroll simultaneously in other courses or to work, except perhaps on weekends. Students typically take the entire sequence of 1160, 2260, and 3360, but they may take any portion of the program if they have the necessary background as determined by a placement interview. Some students do choose to apply only to the summer portion. The spring semester of the Chinese program will be offered in Beijing at the School of International Studies at Peking University.

Students must formally apply to the program. To guarantee course availability and scholarship eligibility, applications must be received by March 1. After that, applicants are reviewed on a rolling basis and acceptance is contingent on the availability of spaces. The 1160–2260–3360 sequence fulfills the language requirement for the M.A. in Asian Studies and the joint M.B.A./M.A. in Asian Studies. Applications are available in 388 Rockefeller Hall or on the FALCON web site at [lrc.cornell.edu/falcon/apply](http://lrc.cornell.edu/falcon/apply).

### Study Abroad

There are many strong options for study abroad in Asia. Cornell Abroad helps students plan a year or semester abroad as part of their Cornell undergraduate degree. Cornell has affiliations with several programs and institutions in Asia and sends students to those and others.

Cornell is affiliated with IUP, the Inter-University Program for Chinese Language Studies in Beijing (at Tsinghua University) and is a member of CIEE and IES, organizations sponsoring study abroad programs offering Chinese language instruction at several levels as well as courses in Chinese studies in the humanities and social sciences. Students may also study at other programs in China, Hong Kong, and Taiwan. The Chinese FALCON program includes a spring semester in Beijing at Peking University.

Cornell is a member of the consortium of the Kyoto Center for Japanese Studies, an undergraduate semester or year program in Japanese language and Japanese studies. An agreement with International Christian University (ICU), outside Tokyo, permits Cornell students to attend that institution. Cornell students have attended CIEE and IES programs as well as other programs and institutions in Japan.

Cornell is a member of the American Association of Indian Studies, which offers fellowships for intensive study in India or Hindi, Bengali, and Tamil. There are study abroad options in universities or other organizations in various regions of India. In cooperation with Tribhuvan National University of Nepal, Cornell organizes the Cornell–Nepal Study Program for

undergraduate and graduate students wishing to spend a semester or year studying and conducting research in Nepal.

Students may spend a semester or year in Mongolia, Korea, Vietnam, Indonesia, Thailand, Singapore, or the Philippines or choose to study about Asia at such institutions as the School of Oriental and African Studies in London or the Faculty of Asian Studies at the Australian National University. Undergraduates should consult Cornell Abroad; graduate students should inquire at the East Asia Program, Southeast Asia Program, or South Asia Program offices.

Students may apply up to 15 credits from abroad to the major.

### First-Year Writing Seminars

See John S. Knight Institute brochure for times, instructor, and descriptions.

### Asia—General Education Courses

#### [ASIAN 1190 East Asia to 1800 (also HIST 1900) (HA-AS)]

Spring. 4 credits. Next offered 2010–2011. H. Hirano.

For description, see HIST 1900. (GE)

#### [ASIAN 1191 Introduction to Modern Asian History (also HIST 1910) @ (HA-AS)]

Fall. 4 credits. E. Tagliacozzo and S. Cochran.

For description, see HIST 1910. (GE)

#### [ASIAN 1192 Introduction to World Music II: Asia (also MUSIC 1302) @ (CA-AS)]

Fall. 3 credits. Next offered 2011–2012. M. Hatch.

For description, see MUSIC 1302. (GE)

#### [ASIAN 2208 Introduction to Southeast Asia @ (CA-AS)]

Fall. 3 credits. T. Chaloeintiarana.

For anyone curious about the most diverse part of Asia; defines Southeast Asia both as the nation-states that have emerged since 1945 (Brunei, Burma, Cambodia, Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand, and Vietnam) and as a larger cultural world extending from southern China to Madagascar and Polynesia. Students find a serious, organized introduction to a variety of disciplinary and topical approaches to this region, including geography, linguistics, history, religion and ideology, anthropology, marriage and family systems, music, literacy and literature, art and architecture, agriculture, industrialization and urbanization, politics and government, warfare and diplomacy, ecological and human degradation, and business and marketing. The course teaches both basic information and different ways of interpreting that information. (GE)

#### [ASIAN 2209 Script and Culture in East Asia (also ARTH 2801, HIST 2891) @ # (LA-AS)]

Fall. 3 credits. Next offered 2010–2011. B. Rusk.

Introduction to the history and cultural role of writing systems, with a focus on the case of East Asia. (GE)

#### [ASIAN 2211 Introduction to Japan @ # (CA-AS)]

Fall. 3 credits. J. M. Law.

This course surveys major disciplinary approaches in the social sciences and humanities to the study of Japan by focusing

on different historical formulations of Japanese native and national identity: Japan the sacred nation, Japan the aesthetic, Japan the warrior nation, Japan the peaceful (victim) nation, Japan the industrious economic superpower and Japan the hyper-modern. We introduce Japanese performance traditions, read fiction, poetry and plays, see classical films and recent anime, and study historical cases relating to each of these formulations. (GE)

#### [ASIAN 2212 Introduction to China @ # (CA-AS)]

Spring. 3 credits. R. McNeal.

Interdisciplinary introduction to Chinese culture especially designed for students not majoring in Asian Studies. Explores literature, history, religion, art and archaeology, and other aspects of China's rich and diverse heritage, from earliest times to the present. (GE)

#### [ASIAN 2215 Introduction to South Asia @ (HA-AS)]

Fall. 3 credits. A. Blackburn and L. McCrea.

This is an interdisciplinary introduction to the cultures and histories of South Asia, with special attention to the intersections of religion, political authority, and the arts, as well as problems connected to gender and development. Students will look briefly at South Asian migration as well. Many sections of the course focus on questions of identity and belonging, looking at how people express their relationship to places and social groups. This course is suitable for students not majoring in Asian Studies. Students with more specialized interests in Asia and Asian Studies are also welcome. (GE)

#### [ASIAN 2218 Introduction to Korea @ (CA-AS)]

Fall. 3 credits. J. Pak.

Multidisciplinary introduction to Korean history, society, and culture. The first part of the course will examine sources of Korean tradition in their historical contexts. The second part, on the transition to a modern society, will cover the mid–19th century to the Korean War. The last part will be devoted to contemporary society. (GE)

#### [ASIAN 2250 Introduction to Asian Religions (also RELST 2250) @ # (HA-AS)]

Spring. 3 credits. D. Boucher.

Explores religious traditions in South Asia (Pakistan, India, and Sri Lanka) and East Asia (China and Japan) including Hinduism, Buddhism (South Asian and East Asian), Sikhism, Confucianism, Daoism, and Shinto. Encounters a wide range of religious expressions as well, including myth, ritual, pilgrimage, mysticism, meditation, and other spiritual technologies. (GE)

### Asia—Literature and Linguistics Courses

The following courses are taught entirely in English and are open to any Cornell student.

#### [ASIAN 2240 Love, War, and the Supernatural in Pre-Modern Japan @ # (LA-AS)]

Fall. 3 credits. J. Kanemitsu.

In this course, students will meet some of the most memorable characters depicted in Japanese literature, from the eighth through 18th centuries. In addition to each work's historical and cultural contexts, we will consider its literary conventions and think about how genres have been defined. A survey of representative works in Japan's

literary history, this course examines changing representations of idealized male and female protagonists as they pursue desire, conquest, and occasionally both. (LL)

#### [ASIAN 2241 China's Literary Heritage: An Introduction in Translation @ # (LA-AS)]

Spring. 3 credits. Next offered 2012–2013. D. X. Warner.

This is a survey course designed for, though not limited to, nonmajors with or without any knowledge of Chinese language, history, or culture. Students read a broad selection in translation of poems, prose, and narrative writings from the pre-modern period on a variety of themes. (LL)

#### [ASIAN 2279 Chinese Mythology @ # (LA-AS)]

Summer. 3 credits. R. McNeal.

Students will study Chinese myths from the earliest times down to the late imperial era. Focus will be on understanding the form Chinese myths take, how they are related to religion, literature, historical accounts and intellectual trends. (LL)

#### [ASIAN 3318 Literature and Media in Japan (also COML 3150, VISST 3318)]

Fall. 3 credits. B. de Bary.

Dissolving the conventional distinction between literary studies and media studies, the course will first consider the formation of a modern national literature within the environment of rapidly transforming media in late 19th-century Japan. The primary focus, however, will be on dynamic relays and reciprocal influences among contemporary novels, films, anime, comics, video games, and digital arts. The course will use materials with translations or subtitles in English. (LL)

#### [ASIAN 3365 Traditional Japanese Theatre (also ASIAN 6665)]

Spring. 3 credits. J. Kanemitsu.

An introduction to seven genres of Japanese performing arts from the 14th through 19th centuries. In addition to examining pivotal moments in itinerant storytelling, dramatic literature, and dramaturgical treatises, we will also consider transformations in performance spaces and costuming as well as the traditions of artistic transmission. We will also be viewing recordings of modern performances and cinematic adaptations. All readings will be in English; no knowledge of the Japanese language will be required. (LL)

#### [ASIAN 3370 Global Martial Arts, Film, and Literature (also COML/FILM 3701)]

Spring. 4 credits. P. Liu.

For description, see COML 3701. (LL)

#### [ASIAN 3373 20th-Century Chinese Literature @ (LA-AS)]

Fall. 4 credits. Next offered 2010–2011. E. Gunn. (LL)

#### [ASIAN 3374 Chinese Narrative Literature @ # (LA-AS)]

Fall. 4 credits. E. Gunn.

Selected works in classical Chinese fiction are read in translation. Major novels, such as *The Dream of the Red Chamber* and *Water Margin*, are emphasized. (LL)

#### [ASIAN 3379 Southeast Asian Literature in Translation @ (LA-AS)]

Spring. 4 credits. Next offered 2011–2012. L. Paterson. (LL)

**[ASIAN 3380 Vietnamese Literature in Translation (also ASIAN 6680) @ # (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
L. Paterson. (LL)

**[ASIAN 3387 Literature and Film of South Asia (also COML 3860, VISST 3870) @ (CA-AS)]**

Spring. 4 credits. Next offered 2010–2011.  
A. Banerjee. (LL)

**ASIAN 3389 Partition/Fiction and Film (also COML 3850)**

Fall. 4 credits. A. Banerjee.  
For description, see COML 3850. (LL)

**ASIAN 4411 History of the Japanese Language (also LING 4411, JAPAN 4410) @ # (HA-AS)]**

Fall. 4 credits. J. Whitman.  
For description, see LING 4411. (LL)

**[ASIAN 4412 Linguistic Structure of Japanese (also LING 4412) (KCM-AS)]**

Spring. 4 credits. Next offered 2010–2011.  
J. Whitman.  
For description, see LING 4412. (LL)

**ASIAN 4424 Asia Memoirs: Trauma and Social Upheaval in East and Southeast Asia (also ASIAN 6627) @ (CA-AS)]**

Spring. 4 credits. L. Paterson.  
From the Chinese Cultural Revolution to Khmer Rouge Cambodia, social upheaval in Asia has given rise to a genre of trauma memoir. In this course we will discuss how periods of societal terror are represented and remembered within these personal narratives. Through reading such accounts in conjunction with secondary scholarship, we will examine various issues of representation such as intended audience, construction of memory, and framing of individual experience. We will also examine to what extent these accounts contribute to, or contradict, national narratives of the respective countries. (LL)

**[ASIAN 4430 Structure of Korean (also LING/KOREA 4430) (KCM-AS)]**

Spring. 4 credits. Next offered 2010–2011.  
J. Whitman.  
For description, see LING 4430. (LL)

**[ASIAN 4437 Research Methods in Pre-Modern China (also ASIAN 6611) @ # (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
B. Rusk. (LL)

**[ASIAN 4481 Translation and Cultural Difference (also COML 4700) @ (KCM-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
N. Sakai.  
The course will explore the broader conception of translation in terms of which to critically understand communication as the ideology of Capital. (LL)

**ASIAN 5505 Methodology of Asian Language Learning and Teaching**

Spring. 2 credits. Limited enrollment.  
Preference given to graduate students in Asian Studies and Linguistics. R. Sukle.  
This is a course for anyone interested in the pedagogy of Asian languages; required for graduate students seeking appointment as teaching assistants and those seeking as continuing appointments as teaching associates in the Department of Asian Studies for Chinese, Hindi and Urdu, Japanese, and Korean. The course presents theories of language teaching and learning, provides

classroom observation and practice teaching, and outlines the basics of phonology, morphology, grammar, sociolinguistics, pragmatics, and discourse structure and other features of language use. (LL)

**Asia—Religion Courses****ASIAN 2220 Buddhism in America (also RELST 2220) (CA-AS)]**

Summer. 3 credits. J. M. Law.  
This course focuses on a threefold division of Buddhist communities in America: (1) communities established by Asian teachers with predominantly western community members; (2) communities established to serve the needs of immigrant communities arriving from traditionally Buddhist cultures; and (3) communities established by refugee communities. The class explores how these three different methods of arrival and establishment of Buddhist traditions in North America influence the decisions these communities make as they adapt Buddhism to a new cultural setting. We also look at the writings of several thinkers who deal with the multicultural setting. We also look at the writings of several thinkers who deal with the multicultural nature of American religious life, including Buddhism in the community of American religions in the 21st century. (RL)

**[ASIAN 2226 Society and Religion in China (also HIST 2261) @ # (HA-AS)]**

Fall. Next offered 2010–2011. T. J. Hinrichs. (RL)

**ASIAN 2277 Meditation in Indian Culture (also RELST 2277) @ # (CA-AS)]**

Spring. 3 credits. D. Gold.  
Probes the truths behind traditional claims of the priority of internal practice in Indian traditions. Students are expected to experiment with some basic meditation practices and situate them within larger South Asian world views as suggested by doctrines, rituals, iconic forms, and literary texts. Grades are based on short papers. (RL)

**ASIAN 3309 Temple in the World: Buddhism in Contemporary South and Southeast Asia (also RELST 3309) @ (CA-AS)]**

Spring. 3 credits. A. Blackburn.  
Buddhism is often thought of as a meditative and philosophical tradition, remote from the concerns and pleasures of everyday life, practical ethics, and politics. This course explores the unfolding of Buddhist life in contemporary South and Southeast Asia, in locations such as Burma, Thailand, India, Sri Lanka, Malaysia, and Cambodia. We will see how the practices of meditation and philosophical reflection enter the lives of Buddhists, along with other expressions of devotion, aesthetic fascination, political action, and sociability. Our goal will be to recognize the sensual, emotional, and social qualities of Buddhist practice, and the ways in which life unfolds in a Buddhist idiom. (RL)

**[ASIAN 3344 Introduction to Indian Philosophy # @ (KCM-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
L. McCrea. (RL)

**[ASIAN 3347 Tantric Traditions (also RELST 3349) @ # (CA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
D. Gold. (RL)

**[ASIAN 3348 Indian Devotional Poetry (also RELST 3347) @ # (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012.  
D. Gold. (RL)

**ASIAN 3351 Indian Religious Worlds (also RELST 3351) @ (CA-AS)]**

Spring. 4 credits. D. Gold.  
A study of religious traditions as lived today in the Indian subcontinent. Attention will be paid to differences in piety and practice within alternative environments. (RL)

**ASIAN 3353 Mysticism in Chinese Religion (also RELST 3353) @ # (CA-AS)]**

Fall. 4 credits. D. Boucher.  
This course will examine techniques of spiritual cultivation in both the Daoist and Buddhist traditions of China. In particular we will compare and contrast methods which focus on the manipulation of bodily energies and fluids, particularly in the early and medieval Daoist traditions, with the Buddhist emphasis on cognitive transformation, particularly in the Chan school. Some of our discussion will also look at the debates on the nature of mystical states as “pure consciousness events” on the one hand, or culturally specific constructions on the other. (RL)

**[ASIAN 3354 Indian Buddhism (also ASIAN 6654, RELST 3354/6654) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
D. Boucher. (RL)

**[ASIAN 3355 Japanese Religions (also RELST 3355) @ (CA-AS)]**

Spring. 4 credits. Next offered 2010–2011.  
J. M. Law. (RL)

**ASIAN 3359 Japanese Buddhism: Texts in Context (also RELST 3359) @ # (HA-AS)]**

Spring. 4 credits. J. M. Law.  
Focuses on six figures in Japanese Buddhism: Saichō (767–822), Kūkai (774–835), Hōnen (113–1212), Nichiren (1222–1282), Dōgen (1200–1253), and Hakuin (1686–1769). Studies their lives, writings, core practices and doctrines, and a central religious dynamic the work of each embodies: establishment of a Mahayana ordination, esoteric practice, the popularization of Buddhism, Buddhist pronominalist ideologies, and establishment of Zen meditation as iconic “Japanese” Buddhism. (RL)

**ASIAN 4405 Zen Buddhism: Experience and Ideology (also RELST 4405) @ # (CA-AS)]**

Spring. 4 credits. J. M. Law.  
Explores the ideological and religious claims of Zen tradition, focusing on religious, historical, and aesthetic developments in Japan. We'll rely on primary sources in translation and secondary sources by scholars in religion and Buddhist Studies. Reading classic text on Zen for American audiences, course starts with rise of Ch'an tradition in China and development of Northern and Southern Schools, reading primary sources in translation. In Japan, we'll look at establishment of Zen in Kamakura period, focusing on developments of Rinzaï and Soto Zen, and early transmissions of Chinese texts/practices to Japan through emissaries. To understand the developments of these schools, we'll study the lives/writings of Eisai and Dōgen, and how their life works/writings influenced developments in Zen. We'll explore

the work of the Tokugawa Zen figure Hakuin through a focus on his key works, and his vision of Zen reform. We will study the ways Zen has become implicated in Japanese postwar identity discourses, focusing on critical readings of D. T. Suzuki and others that create an aestheticism central to Japanese national identity. Finally direct spiritual cultivation has rooted itself in American soil. Includes field trip to one of the largest Zen monasteries in North America, near Ithaca, and a visit from a prominent Zen priest from Japan.

**[ASIAN 4421 Religious Reflections on the Human Body (also RELST 4421) (KCM-AS)]**

Fall. 4 credits. Prerequisites: one religious studies course or permission of instructor. Next offered 2010-2011. J. M. Law. (RL)

**[ASIAN 4427 Buddhist Monasticism (also RELST 4427) @ # (CA-AS)]**

Fall. 4 credits. D. Boucher. This seminar will investigate a range of monastic vocations and interests. We will be particularly interested in the socioeconomic impact of monasticism on Buddhist societies: why have so many people dedicated so much capital to the preservation of an institution that seemingly contributes nothing to the economy? We will also want to ask questions about monastic motivations: why would someone choose to live this kind of life? What are its advantages? How do such choices influence monastic attitudes to the laity and, particularly, to women? (RL)

**[ASIAN 4438 Monks, Texts, and Relics: Transnational Buddhism in South and Southeast Asia (also ASIAN 6638, RELST 4438/6638) (CA-AS)]**

Spring. 4 credits. A. Blackburn. What role did magic and ritual play in the growth of Buddhism in South and Southeast Asia? Where did Buddhist monks travel and why? This course examines how Buddhist communities were formed by networks that carried monks, potent texts, and relic talismans throughout these regions, from the beginning of Buddhism to the present day. (RL)

**[ASIAN 4441 Mahayana Buddhism (also RELST 4441) @ # (CA-AS)]**

Spring. 4 credits. Next offered 2010-2011. D. Boucher. (RL)

**[ASIAN 4444 Ritual Puppetry in a Global Context (also RELST/THETR 4444, DANCE 4377) @ # (CA-AS)]**

Spring. 4 credits. Next offered 2010-2011. J. M. Law. (RL)

**[ASIAN 4449 History and Methods of the Academic Study of Religion (also RELST 4449) # (KCM-AS)]**

Spring. 4 credits. Prerequisite: two courses in religious studies major or permission of instructor. D. Boucher.

Provides advanced students in religious studies or the humanities familiarity with important methodological issues in the academic study of religion. (RL)

**[ASIAN 4460 Indian Meditation Texts (also RELST 4460) @ # (KCM-AS)]**

Fall. 4 credits. No knowledge of Indian languages required. Next offered 2010-2011. D. Gold.

Draws on approaches from literary criticism, anthropology, and religious studies to explore texts that record religious experience. (RL)

**[ASIAN 4462 Religion, Colonialism, and Nationalism in South and Southeast Asia (also ASIAN 6662, RELST 4462) (CA-AS)]**

Fall. 4 credits. Prerequisites: one course in ANTHR, ASIAN, HIST, RELST at 3000 level or above or permission of instructor.

A. Blackburn.

Taught as a seminar, the course engages recent theoretical literature on the relations between religion, colonialism and nation formation. This theoretical literature is read in conjunction with historical and ethnographic materials from South and Southeast Asian contexts, which allow us to explore the intellectual promise and limitations of the theoretical work in question. (RL)

**[ASIAN 4489 Religion and Sustainability: Traditionalist Discourses in the 21st Century (also RELST 4489) @ (CA-AS)]**

Fall. 4 credits. Prerequisite: permission of instructor. J. M. Law.

The natural world and the relationship of human beings and animals to it and within it is a central component of cosmogonic myths and religious ideologies in most major religious traditions. In this course, we explore how mythological, textual, ritual and ideological understandings of the relationship between human beings and the natural world uniform understandings of the contemporary environmental crisis and the responsibility of human beings to address it. We'll also explore how different approaches to environmentalism have tried to incorporate various religions. This class will focus on cases from Hindu, Buddhist, Jain, Jewish, Christian and Muslim discourses on the natural world. We'll explore a variety of models of formulating the human/natural relationship: dominion, stewardship, illusion, primary sacrality and alienation. We challenge the view that grounding environmental activism in religious discourse is an effective way for environmental work to proceed and look at concrete case studies of religious communities working for, or against, environmental sustainability. (RL)

**Asia—Society and Culture Courses**

**[ASIAN 2206 The Occidental Tourist: Travel Writing and Orientalism in Southeast Asia (also ASIAN 5507, HIST 2070/5070) @ (CA-AS)]**

Fall. 4 credits. Next offered 2010-2011. T. Loos. (SC)

**[ASIAN 2210 Pop Culture in China (also HIST 2210) @ (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012. T. J. Hinrichs.

For description, see HIST 2210. (SC)

**[ASIAN 2219 Women and Gender in South Asia (also FGSS/HIST 2190) @ (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011. D. Ghosh. (SC)

**[ASIAN 2225 Literature, Politics, and Genocide in Cambodia (also ASIAN 4422) @ (CA-AS)]**

Summer. 3 credits. G. Chigas.

This course will examine various literary, historical, and political responses to the Cambodian genocide, particularly literary testimony by survivors and governmental efforts to bring the perpetrators to justice. The course considers the limited effectiveness of these responses for addressing the causes and effects of genocide despite the vow of "never

again." To pursue these questions, students will read selections from novels and poetry written by Cambodian survivors, along with historical accounts of the genocide and analysis attempts by the Cambodian government and the international community to bring the perpetrators to justice. (SC)

**[ASIAN 2228 Indian Ocean World (also HIST 2280) @ # (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011. Limited to 15 students. E. Tagliacozzo. (SC)

**[ASIAN 2238 Families in China Since 17th Century (also HIST 2380) @ (HA-AS)]**

Fall. 4 credits. S. Cochran. For description, see HIST 2380. (SC)

**[ASIAN 2245 Gamelan in Indonesian History and Cultures (also MUSIC 1341, VISST 2744) @ (LA-AS)]**

Fall or spring. 3 credits. Prerequisite: permission of instructor. C. Miller. For description, see MUSIC 1341. (SC)

**[ASIAN 2257 China Encounters the World (also CAPS 2570, HIST 2571) @ (HA-AS)]**

Fall. 3 credits. J. Chen. For description, see HIST 2571. (SC)

**[ASIAN 2259 The Vietnam Wars in Film]**

Fall. 3 credits. L. Paterson. This course will explore cinematic depictions of the Indochina Wars from the United States, Vietnam and France. By exploring films from all three participant countries, the historical, social, and cultural contexts of these iconic wars will be critiqued. (SC)

**[ASIAN 2260 Popular Culture of Japan]**

Spring. 3 credits. J. Kanemitsu. In this writing-intensive course, we will examine and analyze the mass and pop cultures of Japan from the Tokugawa period (1600-1868) up to the present, considering how the cultural conventions of different eras have been coded, decoded, and recoded. The overall course will be divided into a variety of modules, including media and communication; illustrated fiction and manga; theater, TV melodrama, and anime; gender identity, recreation, fashion. (SC)

**[ASIAN 2275 History of Modern South Asia (also HIST 2750) @ # (HA-AS)]**

Spring. 4 credits. D. Ghosh. For description, see HIST 2750. (SC)

**[ASIAN 2281 Antiquity and Modernity in Contemporary China (also CAPS 2281) @ # (CA-AS)]**

Spring. 3 credits. Next offered 2010-2011. R. McNeal (SC)

**[ASIAN 2290 East Asian Martial Arts (also HIST 2960) @ (HA-AS)]**

Fall. 4 credits. Next offered 2011-2012. T. J. Hinrichs. For description, see HIST 2960. (SC)

**[ASIAN 2294 History of China in Modern Times (also HIST 2940) @ (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011. S. Cochran. (SC)

**[ASIAN 2295 Power, Culture, and Heterogene in Premodern Japan (also HIST 2981) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011. K. Hirano. For description, see HIST 2981. (SC)

**[ASIAN 2296 From Slow Boats to CEOs?: The Chinese of Southeast Asia @ (CA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
L. Paterson. (SC)

**[ASIAN 2298 The U.S.–Vietnam War (also HIST 2890) @ (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
F. Logevall. (SC)

**[ASIAN 3301 Schools of Thought—Ancient China @ # (HA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
R. McNeal.

This class is a critical, in-depth introduction to the intellectual history of ancient China. Students will read translations from early Confucian, Legalist, Mohist, and Daoist texts, as well as lesser-known works from, e.g., the Yin-Yang school. (SC)

**[ASIAN 3302 Art of War in Ancient China @ # (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
R. McNeal. (SC)

**ASIAN 3305 Seminar on American Relations with China (also CAPS 3000, HIST 3391) (HA-AS)**

Fall. 4 credits. Taught in Washington, D.C.  
R. Bush.

For description, see CAPS 3000. (SC)

**ASIAN 3315 Banaras: Sacred Geography @ (CA-AS)**

Winter. 3 credits. Course taught in Banaras, India. D. Gold and R. Gupta.

An interdisciplinary exploration of the notion “Sacred Geography” in India’s oldest continually occupied urban settlement. Students will be totally immersed in the history, culture, architecture, and traditional and performing arts of Banaras and will reflect on the notion of the city as metaphor, specifically the self-conscious representation of a city as embodiment of cosmos. (SC)

**[ASIAN 3328 Construction of Modern Japan (also HIST 3280) @ # (HA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
J. V. Koschmann. (SC)

**ASIAN 3334 Government and Politics of Southeast Asia (also GOVT 3443) @ (HA-AS)**

Spring. 4 credits. T. Pepinsky.

For description, see GOVT 3443. (SC)

**[ASIAN 3335 Japan from War to Prosperity (also HIST 3300) @ (HA-AS)**

Fall. 3 credits. Next offered 2011–2012.  
J. V. Koschmann. (SC)

**ASIAN 3346 Modern Japanese Politics (also GOVT 3463) @ (SBA-AS)**

Spring. 4 credits. S. Martin.

For description, see GOVT 3463. (SC)

**ASIAN 3350 The Arts of Southeast Asia (also ARTH 3850, VISST 3696) @ # (CA-AS)**

Fall. 4 credits. K. McGowan.

For description, see ARTH 3850. (SC)

**[ASIAN 3361 Bakumatsu–ISHIN: Conflicts and Transformation in Early Modern Japan, 1700–1890 (also HIST 3611) @ (HA-AS)**

Fall. 4 credits. Next offered 2011–2012.  
K. Hirano. (SC)

**[ASIAN 3381 Introduction to the Arts of Japan (also ARTH 3820) @ # (LA-AS)**

Fall. 4 credits. Next offered 2010–2011.

A. Pan.

For description, see ARTH 3820. (SC)

**[ASIAN 3382 Art of South Asia, 1500–Present (also ARTH 3611) @ # (CA-AS)**

Spring. 4 credits. Next offered 2010–2011.

I. Dadi.

For description, see ARTH 3611. (SC)

**ASIAN 3383 Introduction to the Arts of China (also ARTH 3800) @ # (LA-AS)**

Fall. 4 credits. A. Pan.

For description, see ARTH 3800. (SC)

**[ASIAN 3385 History of Vietnam (also ASIAN 6685, HIST 3880/6880) @ # (HA-AS)**

Fall. 4 credits. Meets concurrently with ASIAN 6685. Graduate students may enroll and attend a seminar sec. Next offered 2010–2011. K. Taylor.

Survey of Vietnamese history and culture from earliest times to the present. (SC)

**ASIAN 3386 Southeast Asia through Film @ (CA-AS)**

Spring. 4 credits. L. Paterson.

In Western films Southeast Asia has always been portrayed as an exotic locale of romance, haunting landscapes, and “inscrutable” smiling natives. This class will explore the ways in which the countries of Southeast Asia have been portrayed in Western cinema, in juxtaposition with films produced in the countries themselves. In what ways is this exotic region constructed through Western eyes? To what degree has Southeast Asian cinema itself imitated the Occidental construct? What are the cultural themes explored by Southeast Asian filmmakers themselves? Through close analysis of the films, we will explore the process of visual translation from reality to fantasy in both the local and international contexts. (SC)

**[ASIAN 3388 Theorizing Gender and Race in Asian Histories and Literatures (also ASIAN 6688, COML 3980/6680, FGSS 3580/6580) @ (CA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
N. Sakai. (SC)

**[ASIAN 3391 Martial Arts and Society and Religion (also HIST 3191) @ (HA-AS)**

Fall. 4 credits. Next offered 2011–2012.  
T. J. Hinrichs. (SC)

**ASIAN 3394 The House and the World: Architecture of Asia (also ARTH 3855/VISST 3655) @ # (HA-AS)**

Spring. 4 credits. K. McGowan.

For description, see ARTH 3855. (SC)

**ASIAN 3396 Southeast Asian History from the 18th Century (also HIST 3960/6960) @ (HA-AS)**

Spring. 4 credits. E. Tagliacozzo.

For description, see HIST 3960. (SC)

**[ASIAN 3397 Premodern Southeast Asia (also ASIAN 6697, HIST 3950/6950) @ # (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
E. Tagliacozzo.

For description, see HIST 3950. (SC)

**[ASIAN 4409 Archipelago: The Worlds of Indonesia (also ASIAN 6617, HIST 4100/6100) @ (HA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
E. Tagliacozzo. (SC)

**[ASIAN 4410 Chinese Film @ (LA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
E. Gunn. (SC)

**ASIAN 4413 Religion and Politics in Southeast Asia (also ANTHR 4513) @ (CA-AS)**

Spring. 4 credits. A. Willford.

For description, see ANTHR 4513. (SC)

**[ASIAN 4416 Gender and Sexuality in Southeast Asian History (also ASIAN 6618, FGSS 4160, HIST 4160/6160) @ (CA-AS)**

Fall. 4 credits. Next offered 2011–2012.  
T. Loos. (SC)

**ASIAN 4417 Themes and Problems in Asian Studies # (CA-AS)**

Spring. 4 credits. B. de Bary.

Strongly recommended for Asian Studies majors and prospective majors, this course provides an overview of themes and problems central to work in Asian Studies. We will see how Asian Studies developed as a field of academic inquiry, and explore central themes in the present discipline of Asian Studies. How are Asian traditions invented and transmitted? How do we study the histories of Asian literatures and aesthetics? How have mixed media and technologies shaped Asian worlds from the age of manuscripts and block prints to the digital era? What is the place of ritual and performance in Asian contexts? Is “popular culture” a new phenomenon in Asia? This course is intended for juniors and seniors. Open to first- and second-year students only with permission of instructor. (SC)

**ASIAN 4422 Literature, Politics, and Genocide in Cambodia (also ASIAN 2225) @ (CA-AS)**

Summer. 3 credits. G. Chigas.

For description, see ASIAN 2225. (SC)

**[ASIAN 4426 Hist/Mem of Asia-Pacific War (also HIST 4070) @ (HA-AS)**

Spring. 4 credits. Next offered 2012–2013.  
J. V. Koschmann.

For description, see HIST 4070. (SC)

**[ASIAN 4428 Formation of the Field (also HIST 4428) @ (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
N. Sakai. (SC)

**ASIAN 4429 Vitality and Power in China (also HIST/RELST/SHUM 4931, STS 4911)**

Spring. 4 credits. T. J. Hinrichs.

For description, see SHUM 4931. (SC)

**ASIAN 4435 Theatre and Society: A Comparative Study of Asian Dramatic Cultures (also ASIAN 6632, THETR 4320/6320) @ (CA-AS)**

Spring. 4 credits. H. Yan.

For description, see THETR 4320. (SC)

**ASIAN 4436 Topics in Indian Film (also VISST 4436) @ (LA-AS)**

Fall. 4 credits. No knowledge of an Indian language required. D. Gold.

Treats various aspects of Indian film, with focal topics to vary from year to year. These topics include religion in Indian film, Indian art films, and the golden age of Indian film. All topics are discussed in relation to the conventions of mainstream Bollywood cinema

and their social and cultural significances. Attendance at weekly screenings is required. (SC)

**ASIAN 4456 Dancing the Stone: Body and Memory (also ARTH 4858)**

Spring. 4 credits. K. McGowan.  
For description, see ARTH 4858. (SC)

**ASIAN 4465 Cold War Aesthetics in East Asia (also COML 4430)**

Fall. 4 credits. P. Liu.  
For description, see COML 4430. (SC)

**[ASIAN 4468 Arendt, Morisaki, Weil (also ASIAN 6668, COML 4380/6240) (KCM-AS)]**

Fall. 4 credits. Limited to 20 students. Next offered 2010-2011. B. de Bary. (SC)

**[ASIAN 4469 History of Medicine and Healing in China (also ASIAN 6692, BSOC/HIST/STS 4961, HIST 6961) @ # (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011. T. J. Hinrichs. (SC)

**ASIAN 4487 Threads of Consequence (also ARTH 4855)**

Spring. 4 credits. K. McGowan.  
For description, see ARTH 4855. (SC)

**ASIAN 4490 China's Economy Under Mao and Deng (also ECON/CAPS 4690) @ (SBA-AS)**

Spring. 4 credits. T. Lyons.  
For description, see ECON 4690. (SC)

**[ASIAN 4493 Problems in Modern Chinese History (also ASIAN 6693, HIST 4930/6930) @ (HA-AS)]**

Fall. 4 credits. Prerequisite: ASIAN 2294/HIST 2940 or permission of instructor. Next offered 2010-2011. S. Cochran. (SC)

**[ASIAN 4494 India: Nation and Narration, History and Literature (also HIST 4921) @ (CA-AS)]**

Spring. 4 credits. Next offered 2011-2012. D. Ghosh and A. Banerjee. (SC)

**[ASIAN 4499 Problems in Modern Chinese History (also HIST 4990/6940) @ (HA-AS)]**

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2011-2012. S. Cochran. (SC)

**[ASIAN 5507 The Occidental Tourist (also ASIAN 2206, HIST 2070/5070)]**

Fall. 4 credits. Next offered 2010-2011. T. Loos. (SC)

**ASIAN 5599 East Asian Colloquium (also HIST 6020)**

Fall and spring. 2 credits. Graduate students only. K. Hirano.  
For description, see HIST 6020. (SC)

### Asia—Graduate Seminars

For complete descriptions of courses numbered 6000 or above, see [www.lrc.cornell.edu/asian](http://www.lrc.cornell.edu/asian).

**ASIAN 6602 Southeast Asia Seminar**

Spring. 4 credits. Staff. (SC)

**ASIAN 6603 Southeast Asia Field Seminar**

Spring. 4 credits. Staff. (SC)

**[ASIAN 6604 Southeast Asia Topical Seminar]**

Spring. 3-4 credits. Next offered 2009-2010. Staff. (SC)

**[ASIAN 6611 Research Methods in Pre-Modern China (also ASIAN 4437)]**

Fall. 4 credits. Next offered 2010-2011. B. Rusk.  
For description, see ASIAN 4437. (LL)

**ASIAN 6612 Japanese Bibliography and Methodology**

Fall. 1 credit. Requirement for honors students and M.A. candidates. Prerequisite: permission of instructor. D. McKee. (LL)

**ASIAN 6613 South East Asian Bibliography and Methodology**

Spring. 1 credit. Recommended: reading knowledge of at least one SE Asian language or other Asian language and a major European language. G. Green. (LL)

**[ASIAN 6615 Histories of Tokugawa Japan (also HIST 6150)]**

Fall. 4 credits. Next offered 2011-2012. K. Hirano. (SC)

**[ASIAN 6617 Archipelago: The Worlds of Indonesia (also ASIAN 4409, HIST 4100/6617)]**

Spring. 4 credits. Next offered 2010-2011. E. Tagliacozzo. (SC)

**[ASIAN 6618 Gender and Sexuality in Southeast Asian History (also ASIAN 4416, HIST 4160/6160)]**

Fall. 4 credits. Prerequisite: graduate standing. Next offered 2011-2012. T. Loos. (SC)

**ASIAN 6619 Graduate Seminar: Translation in Theory (also COML 6160, VISST 6619)**

Spring. 4 credits. B. de Bary.  
The course provides an introduction to various aspects of translation theory, and emphasizes relations between translation theory and trauma theory, post-structuralism, post-colonial theory, and debates on comparative literature, "world literature," and area studies. (LL)

**[ASIAN 6626 The 18th Century and the Emergence of Literary Modernity (also COML 6380)]**

Spring. 4 credits. Next offered 2010-2011. N. Sakai.]

**ASIAN 6627 Asia Memoirs: Trauma and Social Upheaval in East and Southeast Asia (also ASIAN 4424)**

Spring. 4 credits. L. Paterson.  
For description, see ASIAN 4424. (LL)

**ASIAN 6629 Contemporary Studies of Japan**

Spring. 4 credits. N. Sakai.  
This course will help graduate students meet new demands of contemporary East Asian studies. Emphasis will be on students' ability to express themselves and engage in their interlocutors' debates. While reading texts particularly influential in the early and contemporary formation of the field and its critique, we will consider such questions as, what is academically and intellectually shared between American and East Asian intellectuals in the fields of humanities; how area studies specialists can engage in transnational problematics; and what is the relationship between "Japan" as an object of area studies discourse and "America" as represented in Japanese journalism, popular culture, and politics. This course will encourage students to discuss not area related topics but reflectively their own theoretical concerns in the Japanese language. (SC)

**ASIAN 6632 Theatre and Society: A Comparative Study of Asian Dramatic Cultures (also ASIAN 4435, THETR 4320/6320)**

Spring. 4 credits. H. Yan.  
For description, see THETR 4320. (SC)

**ASIAN 6638 Monks, Texts, and Relics: Transnational Buddhism in South and Southeast Asia (also ASIAN 4438, RELST 4438/6638)**

Spring. 4 credits. A. Blackburn.  
For description, see ASIAN 4438. (RL)

**[ASIAN 6650 Seminar in Asian Religions (also RELST 6650)]**

Fall. 4 credits. Limited to 10 students. Prerequisite: graduate standing. Next offered 2010-2011. Staff.]

**[ASIAN 6654 Indian Buddhism (also ASIAN 3354, RELST 3354/6654)]**

Spring. 4 credits. Graduate students attend ASIAN 3354 and arrange additional meetings with instructor. Next offered 2010-2011. D. Boucher. (RL)]

**[ASIAN 6659 Seminar in Vedic Philology (also CLASS 7690, LING 6659) (KCM-AS)]**

Fall. 4 credits. Next offered 2010-2011. M. Weiss.  
For description, see LING 6659. (LL)]

**ASIAN 6662 Religion, Colonialism, and Nationalism in South and Southeast Asia (also ASIAN/RELST 4462)**

Fall. 4 credits. Prerequisites: one course in ANTHR, ASIAN, HIST, RELST at 3000 level or above or permission of instructor. A. Blackburn.  
For description, see ASIAN 4462. (RL)

**ASIAN 6665 Traditional Japanese Theatre (also ASIAN 3365)**

Spring. 4 credits. J. Kanemitsu.  
For description, see ASIAN 3365. (LL)

**[ASIAN 6668 Arendt, Morisaki, Weil (also ASIAN 4468, COML 4380/6240)]**

Fall. 4 credits. Next offered 2010-2011. B. de Bary. (SC)]

**[ASIAN 6671 Paleoanthropology of South Asia (also ANTHR 6371, BIOEE 6710)]**

Fall. 3 credits. Limited to 15 students. Next offered 2010-2011. K. A. R. Kennedy.]

**ASIAN 6676 Southeast Asia Reading Seminar: The Early Thai Novels**

Spring. 4 credits. T. Chaloeontarana.  
Seminar participants will read selected early Thai novels in the vernacular to critique their role and relevance to our understanding of Thai intellectual culture, history, politics, and engagement with modernity. The seminar will privilege contextual analysis guided by New Historicism, translation theory, and post-colonial theory. Interested students should contact the instructor before signing up for this class. (LL)

**[ASIAN 6680 Vietnamese Literature in Translation (also ASIAN 3380)]**

Fall. 4 credits. Next offered 2010-2011. L. Paterson.  
For description, see ASIAN 3380. (LL)]

**[ASIAN 6681 Intellectual History of Empire (also HIST 6810)]**

Spring. 4 credits. Next offered 2011-2012. J. V. Koschmann and N. Sakai. (SC)]

**[ASIAN 6685 History of Vietnam (also ASIAN 3385, HIST 3880/6880)**

Fall. 4 credits. Next offered 2010–2011.  
K. Taylor.

For description, see ASIAN 3385. (SC)

**[ASIAN 6688 Theorizing Gender and Race in Asian Histories and Literature (also ASIAN 3388, COML 3980/6680, FGSS 3580/6580, HIST 3880/6880)**

Spring. 4 credits. Prerequisite: reading knowledge of Japanese. Next offered 2010–2011. N. Sakai. (SC)

**[ASIAN 6692 Medicine and Healing in China (also ASIAN 4469, BSOC/HIST/STS 4961, HIST 6961)**

Spring. 4 credits. Next offered 2010–2011.  
T. J. Hinrichs. (SC)

**[ASIAN 6693 Problems in Modern Chinese History (also ASIAN 4493, HIST 4930/6930)**

Fall. 4 credits. Next offered 2010–2011.  
S. Cochran. (SC)

**[ASIAN 6694 Problems in Modern Chinese History (also ASIAN 4499, HIST 4990/6940)**

Spring. 4 credits. Next offered 2011–2012.  
S. Cochran. (SC)

**ASIAN 6696 Modern Southeast Asia: Graduate Proseminar (also HIST 3960/6960)**

Spring. 4 credits. E. Tagliacozzo.  
For description, see HIST 3960. (SC)

**[ASIAN 6697 Premodern Southeast Asia (also ASIAN 3397, HIST 3950/6950)**

Fall. 4 credits. Next offered 2010–2011.  
E. Tagliacozzo.

For description, see HIST 3950. (SC)

**[ASIAN 6698 Seminar in Japanese Thought (also HIST 6980)**

Fall. 4 credits. Limited to 15 graduate students. Prerequisite: reading knowledge of Japanese. Next offered 2010–2011.  
J. V. Koschmann. (SC)

**ASIAN 7701–7702 Graduate Seminar in East Asian Literature**

7701, fall; 7702, spring. 4 credits.  
B. de Bary.

This course will take up Japanese language texts written by members of the “Circle Village” collective established in 1959 near Fukuoka. Work by Morisaki Kazue, Ishimure Michiko, Tanigawa Gan, and Ueno Eishin will form the core readings, but we will also consider related visual texts (woodblock prints and photography). Recent English-language research and theoretical texts will contextualize these readings. Graduate students interested in art/activist projects contemporary to the Circle Village project will be invited to make class presentations.

**ASIAN 7703–7704 Directed Research**

7703, fall or spring; 7704, fall or spring.  
1–4 credits. Staff.

**[ASIAN 7708 Academic Study of Religion**

Fall. 4 credits. Prerequisite: graduate standing and permission of instructor. Letter grades only. Next offered 2010–2011 or by demand. J. M. Law.

This course is limited to graduate students with a strong interest in the academic study of religion. (RL)

**ASIAN 8899 Master's Thesis Research**

Fall, spring. 2–4 credits. Staff.

**ASIAN 9999 Doctoral Dissertation Research**

Fall, spring. 2–4 credits. Staff.

**Asia—Honors and Supervised Reading Courses****ASIAN 4401 Asian Studies Honors Course**

Fall or spring. 4 credits. Prerequisite: senior standing; admission to honors program. Staff.

Supervised reading and research on the problem selected for honors work.

**ASIAN 4402 Asian Studies Honors: Senior Essay**

Fall or spring. 4 credits. Prerequisite: admission to honors program. Staff.

The student, under faculty direction, prepares an honors essay.

**ASIAN 4403–4404 Asian Studies Supervised Reading**

Fall, spring, or both. 1–4 credits. Prerequisite: permission of instructor; majors and other qualified students.

Intensive reading under the direction of a member of the staff.

**Bengali****BENGL 1121–1122 Elementary Bengali**

1121, fall; 1122, spring. 4 credits each semester. Prerequisite: for BENGL 1122, BENGL 1121 or examination. Letter grades only. S. Mukherjee.

For beginners, provides a thorough grounding in conversational, reading, and writing skills. An interactive videoconference course.

**BENGL 2201–2202 Intermediate Bengali @**

2201, fall; 2202, spring. 4 credits each semester. *BENGL 2201 satisfies Option 1.* Prerequisites: for BENGL 2201, BENGL 1122 or examination; for BENGL 2202, BENGL 2201 or examination. Letter grades only. S. Mukherjee.

Continuing focus on reading, writing and conversational skills, this course is designed to advance students' oral competence and enhance comprehension skills through reading, conversations, and listening.

**[BENGL 2203–2204 Intermediate Bengali II: Composition and Conversation**

2203, fall; 2204, spring. 2 credits each semester. Prerequisites: for BENGL 2203, BENGL 2202 or examination; for BENGL 2204, BENGL 2203 or examination. Letter grades only. S. Mukherjee.

Continuing instruction in Bengali at the higher intermediate level with a focus on conversations, discussions, and writing skills.]

**BENGL 3301–3302 Advanced Bengali @**

3301, fall; 3302, spring. 4 credits. *BENGL 3301 satisfies Option 1.* S. Mukherjee.

Continuing instruction in Bengali at the advanced level focusing on conversation, interview and writing skills.

**[BENGL 3303–3304 Bengali Literature I, II @**

3303, fall; 3304, spring. 4 credits each semester. Prerequisites: BENGL 2203–2204 or equivalent. *BENGL 3303 satisfies Option 1.* Letter grades only. S. Mukherjee.

Designed in consultation with students to address their specific needs. Through reading literary texts organized around social and cultural theme-clusters, the course aims to

refine the students' breadth of understanding and develop literary/critical skills.]

**BENGL 4431–4432 Directed Study**

4431, fall; 4432, spring. 1–4 credits, variable. Prerequisite: permission of instructor. Letter grades only. S. Mukherjee. Intended for advanced language study.

**Burmese**

**Note:** Contact S. Tun in 405 Morrill Hall before classes begin for placement or other testing and organizational information.

**BURM 1121–1122 Elementary Burmese**

1121, fall; 1122, spring. 4 credits each semester. Prerequisites: for BURM 1122, BURM 1121. Letter grades only. S. Tun.

A thorough grounding is given in all language skills: listening, speaking, reading, and writing.

**BURM 2201–2202 Intermediate Burmese Reading @**

2201, fall or spring; 2202, fall or spring. 3 credits each semester. *BURM 2201 satisfies Option 1.* Prerequisites: for BURM 2201, BURM 1122; for BURM 2202, BURM 2201. Letter grades only. S. Tun.

Continuing instruction in Burmese. For consolidating and extending skills acquired at the elementary level in both spoken and written Burmese, and for strengthening the understanding of literary Burmese.

**BURM 2203–2204 Intermediate Burmese I and II @**

2203, fall or spring; 2204, fall or spring. 3 credits each semester. *BURM 2203 satisfies Option 1.* Prerequisites: for BURM 2203, BURM 2202; for BURM 2204, BURM 2203 or by examination. Letter grades only. S. Tun.

Continuing instruction in Burmese at the higher intermediate level with a focus on improving oral expression, reading and interpretation of written texts, and further development of listening skills using language learning materials based on authentic audio-video clips.

**BURM 3301–3302 Advanced Burmese @**

3301, fall or spring; 3302, fall or spring. 3 credits each semester. Prerequisites: for BURM 3301, BURM 2202 or permission of instructor; for BURM 3302, BURM 3301.

*BURM 3301 satisfies Option 1.* Letter grades only. S. Tun.

For further development of listening skills in Burmese with emphasis on enriching vocabulary, strengthening grammatical competence, and understanding various genres and styles of written Burmese, such as articles on current events, anecdotes, short stories, etc.

**BURM 4431–4432 Directed Study**

4431, fall; 4432, spring. 1–4 credits variable. Prerequisite: permission of instructor. Letter grades only. S. Tun.

Intended for advanced language study.

**Cambodian**

See “Khmer.”

**Chinese**

**Note:** Testing for placement, including those with near-native abilities, takes place in registration week, before classes begin. Time and place will be posted at [irc.cornell.edu/asian/programs/placement](http://irc.cornell.edu/asian/programs/placement) and on the bulletin board outside 350 Rockefeller Hall.

**CHIN 1101-1102 Beginning Mandarin I and II**

1101, fall; 1102, spring. 6 credits each semester. Limited to 12 students per sec. Prerequisite: for CHIN 1102, grade of C+ or higher in CHIN 1101, or permission of instructor. Students must enroll in lec and one sec. Because of limited sec size, students missing first two class meetings without university excuse are dropped so others may register. No students added after second week of classes. Letter grades only. S. Divo and staff.

For beginners only, providing a thorough grounding in conversational and reading skills. Students with some facility in the spoken language (because Chinese is spoken at home) but who do not read characters should take 1109-1110. Students who read Chinese, but who speak "dialects," such as Cantonese or Amoy, should enroll in CHIN 2215.

**CHIN 1109-1110 Beginning Chinese Reading and Writing for Students of Chinese Heritage I and II**

1109, fall; 1110, spring. 4 credits each semester. Students who complete CHIN 1110 normally continue with CHIN 2209 and 2210. Because of high demand, students missing first two meetings without university excuse are dropped so others may register. Letter grades only. Y. Lee-Mehta and staff.

Intended primarily for students who speak some Chinese (e.g., at home), but who have had little or no formal training. The focus is on characters, reading comprehension, basic composition, standard grammar, and reading aloud with standard Chinese (Mandarin) pronunciation.

**CHIN 1111-1112 Elementary Cantonese I and II**

1111, fall; 1112, spring. 4 credits each semester. Prerequisite: for CHIN 1111, none; for CHIN 1112, CHIN 1111 or equivalent. Students with Mandarin background should consult with instructor for enrollment. Letter grades only. H. Huang.

CHIN 1111 is for beginners with no or very limited Chinese/Cantonese language background from heritage or previous formal training. CHIN 1111/1112 gives basic training in oral/aural Cantonese spoken and used in Guangzhou and Hong Kong. CHIN 1112 gives some basic training in reading Cantonese characters besides the training in oral/aural Cantonese. For more details, see [lrc.cornell.edu/asian/courses/ch/chin111](http://lrc.cornell.edu/asian/courses/ch/chin111) and [lrc.cornell.edu/asian/courses/ch/chin112](http://lrc.cornell.edu/asian/courses/ch/chin112).

**CHIN 2201-2202 Intermediate Mandarin I and II @**

2201, fall or summer; 2202, spring or summer. 4 credits each semester. *CHIN 2201 satisfies Option 1.* Prerequisites: for CHIN 2201, CHIN 1102 with grade of B- or above or CHIN 1160 with grade of B or above or equivalent as determined through placement exam; for CHIN 2202, CHIN 2201 or equivalent. Letter grades only. Q. Teng and staff.

Continuing instruction in written and spoken Chinese with particular emphasis on consolidating basic conversational skills and improving reading confidence and ability.

**CHIN 2209-2210 Intermediate Chinese Reading and Writing for Students of Chinese Heritage I and II @**

2209, fall; 2210, spring. 4 credits each semester. *CHIN 2209 satisfies Option 1.* Prerequisites: for CHIN 2209, a grade of B in CHIN 1110 or equivalent as determined through placement exam; CHIN 2210, CHIN 2209. Letter grades only. Staff.

Continuing focus on reading and writing for students with spoken background in standard Chinese; introduction of personal letter writing and other types of composition.

**CHIN 2211-2212 Intermediate Cantonese I and II @**

2211, fall; 2212, spring. 4 credits each semester. *CHIN 2211 satisfies Option 1.* Prerequisites: for 2211, CHIN 1112 or equivalent, or elementary conversational skills in Cantonese from heritage or previous formal training in Cantonese; for 2212, CHIN 2211 or equivalent. Mandarin speakers should consult with instructor for enrollment. Letter grades only. H. Huang.

Gives comprehensive training in oral and written Cantonese at a higher level than CHIN 1111-1112. Oral training covers conversational Cantonese expression on daily life topics with more vocabulary and more sophisticated sentence structures. Written training includes reading with proper Cantonese pronunciation and writing Cantonese characters. For more details, see [lrc.cornell.edu/asian/courses/ch/chin211](http://lrc.cornell.edu/asian/courses/ch/chin211) and [lrc.cornell.edu/asian/courses/ch/chin212](http://lrc.cornell.edu/asian/courses/ch/chin212).

**CHIN 2213-2214 High Intermediate Cantonese I and II @**

2213, fall; 2214, spring. 4 credits each semester. *CHIN 2213 satisfies Option 1.* Prerequisite: for 2213, basic oral/aural and written skill in Cantonese and intention to continue the learning of Cantonese both oral and written, or completion of CHIN 2212; Prerequisite for 2214: 2213 or equivalent. Letter grades only. H. Huang.

CHIN 2213: A course primarily for students who have acquired basic oral/aural and written skill in Cantonese and have the interest to continue learning speaking Cantonese and reading and writing Cantonese characters; CHIN 2214: A course primarily for students who have the interest to raise their oral and written Cantonese to a higher level. For more detail, see [lrc.cornell.edu/asian/courses/ch/chin213](http://lrc.cornell.edu/asian/courses/ch/chin213) and [lrc.cornell.edu/asian/courses/ch/chin214](http://lrc.cornell.edu/asian/courses/ch/chin214).

**CHIN 2215 Mandarin for Cantonese Speakers @**

Fall. 4 credits. *Satisfies Option 1.* Limited to 15 students. Prerequisite: advanced Cantonese with native-like reading and writing ability. Letter grades only. Staff.

Works on standard Chinese pronunciation and differences in vocabulary and grammar between Cantonese and Mandarin.

**CHIN 3301-3302 High Intermediate Mandarin I and II @**

3301, fall; 3302, spring. 4 credits each semester. *CHIN 3301 satisfies Option 1.* Prerequisites: for CHIN 3301, grade of B+ or higher in CHIN 2202, or equivalent as determined through placement exam; for CHIN 3302, CHIN 3301. Letter grades only. Y. Lee-Mehta.

Continuing instruction in spoken Chinese and in various genres and styles of written Chinese.

**[CHIN 3306 Readings in Chinese History, Culture and Society (also CAPS 3060) @**

Spring. 4 credits. Next offered 2010-2011. Z. Chen.

Designed for CAPS majors to enhance Chinese proficiency while preparing them for studying in a Chinese-language setting.]

**CHIN 3309/3310 Business Chinese in Cultural Context I (also CHIN 5509/5510) @**

Fall, spring. 4 credits each semester. *CHIN 3309 satisfies Option 1.* Prerequisite: two years of Chinese and permission of instructor only. Letter grades only. Z. Chen.

First part of a two-semester sequence for those who studied Mandarin to advanced level. Will cover first five chapters of the textbook, developed surrounding five real cases. These are multinational companies, successfully operated in China by adapting their strategies to special needs of the Chinese market. By reading, discussing, and performing communicative tasks related to those cases, students will learn how to use Chinese as a "carrier of culture," acquiring a better understanding of China in economic and cultural terms. To expand students' knowledge on various business-related issues, in addition to business case analysis, supplementary reading, writing and listening exercises as well as clips of TV shows and interviews will also be provided. Highlights are: Listening comprehension of business news reports; translation of business terms and documents; discussion of Chinese business laws, commercial language and word processing. Class will be in Chinese.

**CHIN 3341 High Intermediate Mandarin: CAPS in D.C. @**

Fall. 4 credits. Letter grades only. Staff. For description, see CHIN 3301.

**CHIN 4411-4412 Advanced Mandarin I and II @**

4411, fall; 4412, spring. 4 credits each semester. *CHIN 4411 satisfies Option 1.* Prerequisites: for CHIN 4411, grade of B+ or higher in CHIN 3302, or equivalent as determined through placement exam; for CHIN 4412, grade of B+ or higher in CHIN 4411 or permission of instructor. Letter grades only. Q. Teng.

Reading, discussion, and composition at advanced levels.

**[CHIN 4425 Special Topics (also CHIN 6625) @**

Spring. 4 credits. Prerequisite: permission of instructor. Letter grades only. Next offered 2010-2011. Staff.]

**CHIN 4426 Historical Documents on Modern China (also CHIN 6626, HIST 4650/6650) @**

Fall. 4 credits. Prerequisite: permission of instructor. Z. Chen.

For description, see HIST 4650.

**CHIN 4427-4428 High Advanced Mandarin I and II @**

4427, fall; 4428, spring. *CHIN 4427 satisfies Option 1.* 4 credits each semester. Prerequisite: for CHIN 4427, grade of B+ or higher in CHIN 2210 or CHIN 4412, or equivalent as determined through placement exam; for CHIN 4428, grade of B+ or higher in CHIN 4427 or permission of instructor. Letter grades only. W. Shao. The focus of the course is on formal Chinese, and the main aim of this course is to help

students achieve an advanced level of Chinese performance, so they may combine Chinese with their work in their majors.

**CHIN 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits, variable. Prerequisite: permission of instructor. Staff.

Intended for advanced language study.

**CHIN 4441 Advanced Mandarin: CAPS in D.C. @**

Fall. 4 credits. Letter grades only. Staff. For description, see CHIN 4411.

**CHIN 4445 Directed Study: CAPS in D.C.**

Fall. 1-4 credits. Letter grades only. Staff. For description, see CHIN 4431-4432.

**CHIN 4451 Advanced Mandarin: CAPS in Beijing @**

Fall. 4 credits. Letter grades only. Staff. For description, see CHIN 4411.

**CHIN 4455 Directed Study: CAPS in Beijing**

Fall. 1-4 credits. Letter grades only. Staff. For description, see CHIN 4431-4432.

**CHIN 4457 High Advanced Mandarin: CAPS in Beijing @**

Fall. 3 credits. *CHIN 4457 satisfies Option 1.* Letter grades only. Staff. For description, see CHIN 4427.

**CHIN 5509-5510 Business Chinese in Cultural Context I (also CHIN 3309-3310)**

Fall, spring. 4 credits each semester. Letter grades only. Z. Chen. For description, see CHIN 3309-3310.

**[CHIN 6625 Special Topics (also CHIN 4425)]**

Fall. 4 credits. Prerequisite: permission of instructor. Letter grades only. Next offered 2010-2011. Staff.]

**CHIN 6626 Historical Documents on Modern China (also CHIN 4426, HIST 4650/6650)**

Fall. 4 credits. Prerequisite: permission of instructor. Z. Chen. For description, see HIST 4650.

**Chinese FALCON (Full-Year Asian Language CONcentration)**

For full information, brochures, etc., see the FALCON Program coordinator in 388 Rockefeller Hall or e-mail: falcon@cornell.edu or lrc.cornell.edu/falcon

FALCON is designed to help students develop "copability" in Mandarin Chinese by bringing them to the level where they can make progress on their own even with no further instruction. The full-year program provides over 1,800 hours of language exposure—which exceeds even the exposure that students living in China typically receive. This allows students to develop levels of fluency, accuracy, and control that are not achieved in other academic settings. By taking the entire full-year sequence, students can complete as much Chinese in one calendar year as they would complete in three or more years of regular study at most academic institutions. The full-year sequence is CHIN 1159 or 1160 (summer), 2260 (fall), and 3360 (spring). Students typically take the entire sequence, but they may take any portion of the program if they have the necessary background as determined by a placement interview. This

course sequence also serves to fulfill the language requirement for the M.A. in Asian Studies and the joint M.B.A./M.A. in Asian Studies. For more information and application forms, please contact the FALCON program office. Some students do choose to apply only to the summer portion. The spring semester of the Chinese program will be offered in Beijing at the School of International Studies at Peking University. In the summer and fall, three small interactive classes per day are conducted entirely in Chinese, and one lecture is conducted in both Chinese and English. In the spring semester, all four classes are conducted entirely in Chinese. In the summer and fall, students are also required to spend at least two one-hour sessions per day in the language lab. Additional preparation time in the language lab of up to three hours is necessary in the evenings. The demands of this 16-credit program do not normally permit students to take other courses simultaneously.

Students must formally apply to the program. To guarantee course availability and scholarship eligibility, applications must be received by March 1. After that, applicants are reviewed on a rolling basis and acceptance is contingent on the availability of spaces. Applications are available in 388 Rockefeller Hall or at lrc.cornell.edu/falcon/apply.

**CHIN 1159 Summer Intensive Chinese (FALCON)**

Summer only. 1-7 credits. Prerequisite: some previous language study in Chinese; permission of program director. S. Divo and staff.

This course is for students with significant prior background in Chinese who take CHIN 1160 for fewer than 8 credits. Formal application and a placement interview are required.

**CHIN 1160 Introductory Intensive Mandarin (FALCON)**

Summer only. 8 credits. Students who complete this course with grade of at least B are normally eligible to enroll in CHIN 2201. S. Divo and staff.

This is a nine-week intensive, 8-credit course that meets only in the summer, Monday through Friday from 8:30 am to 4:30 p.m., beginning from an absolutely introductory level introducing the spoken and written language. Lectures on linguistics and cultural matters, intensive practice with native speakers, and laboratory work prepare students for an intermediate level of study. This course involves work on all four skills: speaking, listening comprehension, reading and writing. Students who complete this course with a grade of B or higher are normally eligible to enroll in CHIN 2201, if they choose not to continue to CHIN 2260.

**CHIN 2260 Intermediate Intensive Mandarin (FALCON) @**

Fall. 16 credits. *Satisfies Option 1.* Prerequisites: grade of B+ in CHIN 1160 or equivalent with permission of instructor. Students must apply formally to FALCON program; open to all Cornell students and students from other institutions. S. Divo and staff.

Students work on spoken and written Chinese at the intermediate level, developing fluency, accuracy, and control that are not achieved in other academic settings. This is a full-time academic program that meets Monday through Friday from 9:05 a.m. to 4:30 p.m., with 1-3

hours per day of self-directed practice in Cornell's Language Resource Center.

**CHIN 3360 Advanced Intensive Mandarin (FALCON) @**

Spring. 16 credits. Prerequisite: grade of B+ or higher in CHIN 2260 or permission of instructor. CHIN 3360 is scheduled to be held in Beijing, People's Republic of China. S. Divo and staff.

After finishing the summer and fall terms at Cornell, students have the language skills to benefit fully from a Chinese linguistic and cultural environment. FALCON's full-year students spend their last semester in Beijing, where they continue to improve their skills and put them to effective use in daily life. In Beijing, students continue to attend four small-group classes with FALCON-trained Chinese language teachers; these classes include comprehensive training to develop reading, writing, and speaking proficiency, a course in newspaper reading and translation, as well as a course in advanced listening skills. In addition, a variety of activities outside the classroom, including field trips and guest lectures are provided. Spring FALCON is scheduled at the School of International Studies at Peking University.

**Literature in Chinese**

**CHLIT 2213-2214 Introduction to Classical Chinese @ # (LA-AS)**

2213, fall; 2214, spring. 3 credits each semester. *CHLIT 2213-2214 does NOT satisfy Option 1.* Prerequisite: for 2213, qualification in Chinese or permission of instructor; for 2214, 2213 or permission of instructor. May be taken concurrently with CHIN 1101-1102, 2201-2202, 3301-3302. Open to students who have studied at least two years of any language that employs Chinese writing system (e.g., Mandarin, Cantonese, Japanese). D. X. Warner and B. Rusk.

Two-part introductory course. Students learn the fundamental grammar and vocabulary of classical Chinese by analyzing and translating short passages. (LL)

**[CHLIT 3300 Reading from the Early Masters @ # (HA-AS)]**

Spring. 4 credits. Prerequisites: CHLIT 2213-2214 or permission of instructor. Next offered 2010-2011. R. McNeal. Students read and discuss several passages from early classical texts, such as the Confucian Analects, the Mozi, the Guanzi, and others. Attention is paid to grammar, historical context, and methodology.]

**[CHLIT 3307 Readings in Classical Chinese Literature @ # (LA-AS)]**

Spring. 4 credits. Prerequisite: CHLIT 2214 or permission of instructor. Next offered 2010-2011. D. X. Warner and B. Rusk. This course surveys selected texts—primarily in prose—from the ancient and medieval periods. (LL)]

**[CHLIT 4418 Medieval Chinese Narrative Tales @ # (LA-AS)]**

Fall. 4 credits. Prerequisite: at least three years of Chinese language training and preferably one year classical Chinese. Next offered 2010-2011. D. X. Warner. This course introduces students to medieval Chinese narrative literature. (LL)]

**CHLIT 4420 T'ang Poetry: Themes and Contexts (also CHLIT 6620) @ # (LA-AS)**

Spring. 4 credits. Prerequisite: minimum three years of Chinese and/or one year of Classical Chinese or permission of instructor. D. X. Warner.

A guided reading in Chinese of selected works on shared themes written by selected poets of the T'ang dynasty (618-907). Focuses on developing the essential skills for reading T'ang poems while giving attention to their social, cultural, and historical contexts. (LL)

**CHLIT 4421-4422 Directed Study**

Fall or spring. 2-4 credits each semester.

Prerequisite: permission of instructor. Staff. Students choose a faculty member to oversee this independent study. The student and the faculty member work together to develop course content. (LL)

**CHLIT 4423 Readings in Chinese History @**

Spring. 4 credits. Prerequisites: equivalent of three years of Mandarin instruction; permission of instructor. *Satisfies Option 1.* Staff. (LL)

**[CHLIT 4435 Chinese Buddhist Texts @ # (LA-AS)]**

Fall. 4 credits. Prerequisite: one year of classical Chinese or permission of instructor. Open to students in any area of East Asia with an interest in developing skills in Buddhist texts. Next offered 2010-2011. D. Boucher. (LL)

**[CHLIT 6603 Seminar in Chinese Fiction and Drama]**

Fall. 4 credits. Prerequisite: permission of instructor. Next offered 2010-2011. E. Gunn. (LL)

**CHLIT 6605 Seminar in Chinese Fiction and Drama**

Fall. 4 credits. Prerequisite: permission of instructor. E. Gunn.

As a seminar, the course engages students in contemporary fiction and drama and published criticism of them in order to build the students' scholarly and critical abilities. Texts are in Chinese, with some criticism published in English. (LL)

**[CHLIT 6610 Chinese Cultural Criticism]**

Spring. 4 credits. Next offered 2010-2011. E. Gunn. (SC)

**[CHLIT 6615 Seminar: Ideas and Literature of Medieval China]**

Spring. 4 credits. Next offered 2010-2011. D. X. Warner. (LL)

**[CHLIT 6620 T'ang Poetry: Themes and Contexts (also CHLIT 4420)]**

Fall. 4 credits. Prerequisite: minimum three years of Chinese and/or one year of Classical Chinese or permission of instructor. Next offered 2010-2011. D. X. Warner.

For description, see CHLIT 4420. (LL)

**CHLIT 6621-6622 Advanced Directed Reading: Chinese Historical Syntax**

6621, fall; 6622, spring. 2-4 credits. Prerequisite: permission of instructor. Staff. Students choose a faculty member to oversee this independent study. The student and the faculty member work together to develop class readings. (LL)

**Hindi****HINDI 1101-1102 Introductory Hindi I and II**

1101, fall; 1102, spring. 6 credits each semester. *Students may not receive credit for both HINDI 1101 and 1109. Students may not receive credit for both HINDI 1102 and 1110.* Prerequisite: for HINDI 1102, HINDI 1101 or equivalent. Letter grades only. S. Singh and staff.

This is a course designed for a complete beginner in Hindi. Students are not expected to have any prior knowledge in Hindi before taking this course. In this course, they will learn how to read and write Hindi script and how to speak survival Hindi in different social settings. While reading, writing, and listening are very important components of this course, much emphasis is put on spoken Hindi.

**HINDI 1109-1110 Accelerated Hindi I and II**

1109, fall; 1110, spring. 4 credits each semester. *Students may not receive credit for both HINDI 1101 and 1109. Students may not receive credit for both HINDI 1102 and 1110.* Prerequisite: for HINDI 1109, background in Hindi or permission of instructor; for HINDI 1110, HINDI 1109 or equivalent. Check with instructor regarding placement. Letter grades only. S. Singh and staff.

Accelerated Hindi is a course designed for heritage students. Students develop fluency and accuracy in all four language skills: reading, writing, listening and speaking. It is a parallel course of HINDI 1101, except it moves faster and the focus is on fluency and accuracy in the target language.

**HINDI 2201-2202 Intermediate Hindi I and II @**

2201, fall; 2202, spring. 4 credits each semester. *HINDI 2201 satisfies Option 1.* Prerequisites: for HINDI 2201, HINDI 1102 or HINDI 1110; for HINDI 2202, HINDI 2201 or permission of instructor. Letter grades only. S. Singh and staff.

This is an intermediate-level course in Hindi. Students' competence in all four language areas will become very strong and solid. This course will work on building up their confidence in describing complicated situations and ideas in the target language, reading and writing speed, and clarity in listening comprehension such as news, complicated descriptions, and other media contents.

**HINDI 3301-3302 Advanced Hindi I and II @**

3301, fall; 3302, spring. 3 credits each semester. *HINDI 3301 satisfies Option 1.* Prerequisites: for HINDI 3301, HINDI 2202; for HINDI 3302, HINDI 3301; or permission of instructor. Letter grades only. S. Singh and staff.

Selected readings in modern Hindi literature. Continued work on fluency in speaking Hindi on an advanced level. There will be a combination of different reading materials from literature, journals, newspapers and many social, entertainment, and political magazines in Hindi. Discussions will be based on those readings and articles, hence giving opportunities to express views and opinions in a fluent and effective manner.

**HINDI 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits, variable. Prerequisite: permission of instructor. Letter grades only. S. Singh. Intended for advanced language study.

**Indonesian****INDO 1121-1122 Elementary Indonesian**

1121, fall; 1122, spring. 4 credits each semester. Prerequisite: for INDO 1122, INDO 1121. Letter grades only. J. Pandin. Gives a thorough grounding in basic speaking, listening, and writing skills with an introduction to reading.

**INDO 2205-2206 Intermediate Indonesian @**

2205, fall; 2206, spring. 3 credits each semester. *INDO 2205 satisfies Option 1.* Prerequisites: for INDO 2205, INDO 1122 or equivalent; for INDO 2206, INDO 2205 or equivalent. Letter grades only. J. Pandin. Develops all four skills: reading, writing, speaking, and comprehension.

**INDO 3301-3302 Advanced Indonesian @**

3301, fall; 3302, spring. 3 credits each semester. *INDO 3301 satisfies Option 1.* Prerequisite: INDO 2206 or equivalent. Letter grades only. J. Pandin. Practical language course on an advanced level in which students read selected materials on current issues, write reports, and make oral presentations.

**INDO 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits, variable. Prerequisite: permission of instructor. Letter grades only. J. Pandin. Intended for advanced language study.

**Japanese****JAPAN 1101-1102 Elementary Japanese I and II**

1101, fall; 1102, spring. 6 credits each semester. Prerequisite for 1102: JAPAN 1101 or placement by instructor during registration period. Intended for beginners or those who have been placed in the course by examination. Students must enroll in one lec and one sec. Letter grades only. M. Suzuki and staff.

Gives a thorough grounding in all four language skills—speaking, listening, reading, and writing—at the beginning level. The lecture provides explanation, analysis, and cultural background. Sections are conducted entirely in Japanese.

**JAPAN 2201-2202 Intermediate Japanese I and II @**

2201, fall; 2202, spring. 4 credits each semester. *JAPAN 2201 satisfies Option 1.* Prerequisites: for JAPAN 2201, JAPAN 1102 or placement by instructor during registration; for JAPAN 2202, JAPAN 2201 or placement by instructor during registration. Students must enroll in lec and one sec. Letter grades only. Y. Katagiri.

This course provides widely applicable language proficiency as an integrated Japanese course, which develops all four language skills (speaking, listening, reading, and writing) at the post-elementary level. Discussion sections are conducted entirely in Japanese to give opportunities to practice socioculturally appropriate language performances while enhancing listening comprehension and speaking ability through realistic situational

practices, in addition to training in practical reading and writing skills. Lectures systematically demonstrate versatile knowledge of essential structural patterns with audio-visual aides and explain cultural background and customs useful for effective oral and written communication.

**JAPAN 3301-3302 Continuing Intermediate Japanese I and II @**

3301, fall; 3302, spring. 4 credits each semester. *JAPAN 3301 satisfies Option 1.* Prerequisites: for JAPAN 3301, JAPAN 2202 or placement by instructor during registration; for JAPAN 3302, JAPAN 3301 or placement by instructor during registration. Letter grades only. S. Ichikawa. For students who have learned basic Japanese skills and would like to develop higher skills in listening, speaking, reading, and writing.

**JAPAN 4401-4402 Advanced Japanese I and II**

4401, fall; 4402, spring. 4 credits each semester. *JAPAN 4401 satisfies Option 1.* Prerequisites: for JAPAN 4401, JAPAN 3306 or placement by instructor during registration; for JAPAN 4402, JAPAN 4401 or placement by instructor during registration. Letter grades only. N. Larson. Develops all four language skills (speaking, listening, reading, and writing) at the advanced level.

**JAPAN 4410 History of the Japanese Language (also ASIAN/LING 4411) @ # (HA-AS)**

4 credits. Prerequisite: permission of instructor. J. Whitman. For description, see LING 4411.

**JAPAN 4421-4422 Special Topics @**

4421, fall; 4422, spring. 4 credits. Prerequisites, for JAPAN 4421, JAPAN 4402 or placement by instructor during registration; for JAPAN 4422, JAPAN 4421 or placement by instructor during registration. *JAPAN 4421 satisfies Option 1.* Letter grades only. M. Chapman. Intended for advanced students or placement by instructor. Advanced readings with discussion about a particular topic.

**JAPAN 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits each semester. Prerequisite: permission of instructor. Letter grades only. Staff. Intended for advanced language study.

**Japanese FALCON (Full-Year Asian Language Concentration)**

Web site: [lrc.cornell.edu/falcon](http://lrc.cornell.edu/falcon).

Director: R. Sukle, 388 Rockefeller Hall, 255-0734 or [rjs19@cornell.edu](mailto:rjs19@cornell.edu).

Program coordinator: 388 Rockefeller Hall, 255-6457 or [falcon@cornell.edu](mailto:falcon@cornell.edu).

FALCON is designed to develop "copability" in students by bringing them to the level where they can make further progress on their own even with no further instruction. The full-year program provides over 1,800 hours of language exposure—which exceeds even the exposure that students living in Japan typically receive. This intensive work in Japanese allows students to develop levels of fluency, accuracy, and control of the language that is not achieved in any other type of academic setting. The full-year FALCON sequence is Japanese 1160 (summer), 2260 (fall), and 3360 (spring). By taking this entire sequence,

students can complete as much Japanese in one calendar year as they would complete in three or more years of regular study at most academic institutions. This course sequence also serves to fulfill the language requirement for the M.A. in Asian Studies and the joint M.B.A./M.A. in Asian Studies. For more information and application forms, please contact the FALCON program office. Because of FALCON's intensive nature, graduate students can complete their language work in minimal time. Undergraduates, including freshmen, achieve levels of competency that far exceed what is normally achieved in a four-year program, provided that they continue studying Japanese after FALCON. Three small interactive classes per day are conducted entirely in Japanese, and one lecture is conducted in both Japanese and English. The interactive classes are conducted by experienced and highly trained teachers, and the lecture is taught by an expert in the structure of the Japanese language. In addition to time spent in these classes, students are required to spend at least two one-hour sessions per day in the language lab. Additional preparation time in the language lab of up to three hours is necessary in the evenings. One must formally apply to the program to take the courses. The deadline for application is March 1 in a given year, but applications will be considered after that date if space is still available. The degree of intensity of this program makes it impossible to simultaneously take other courses or work except possibly on weekends.

**JAPAN 1159 Summer Intensive Japanese (FALCON)**

Summer only. 1-7 credits. Prerequisite: permission of program director; some previous language study in Japanese. Applications must be received by March 1. After the deadline, applications are considered provided that space is available. R. Sukle and staff.

This course is for students with significant prior background in Japanese who take JAPAN 1160 for fewer than 8 credits. Formal application and a placement interview are required.

**JAPAN 1160 Introductory Intensive Japanese (FALCON)**

Summer only. 8 credits. Formal application to FALCON is required. Admission is open to all students, not just those planning to take the full year. Students from other institutions are also welcome to apply. Applications must be received by March 1. After the deadline, applications are considered provided that space is available. R. Sukle and staff.

This is a nine-week intensive, 8-credit course that meets only in the summer, Monday through Friday from 8:30 a.m. to 4:30 p.m., beginning from an absolute introductory level introducing the spoken and written language. Lectures on linguistics and cultural matters, intensive practice with native speakers, and laboratory work prepare students for an intermediate level of study. This course involves work on all four skills: speaking, listening comprehension, reading and writing. Students who successfully complete this course and plan to continue at Cornell may take the fall and spring FALCON courses (JAPAN 2260 and 3360). Students interested in other options for continuing after FALCON should consult the FALCON director, Robert Sukle, at [rjs19@cornell.edu](mailto:rjs19@cornell.edu) or 255-0734.

**JAPAN 2260 Intermediate Intensive Japanese (FALCON) @**

Fall. 16 credits. *Satisfies Option 1 or Option 2.* Prerequisites: JAPAN 1160, JAPAN 1102 at Cornell, or placement by FALCON staff before beginning of fall semester. Formal application to FALCON is required. Admission is open to all students, including those from other institutions. Applications must be received by March 1. After the deadline, applications are considered provided that space is available. R. Sukle and staff.

Students work on spoken and written Japanese at the intermediate level, allowing students to develop fluency, accuracy, and control that are not achieved in other academic settings. This is a full-time academic program that meets Monday through Friday from 9:05 a.m. to 4:30 p.m., with one to three hours per day of self-directed practice in Cornell's Language Resource Center.

**JAPAN 3360 Advanced Intensive Japanese (FALCON) @**

Spring. 16 credits. Prerequisite: JAPAN 2201 at Cornell or placement by FALCON staff. R. Sukle and staff.

Students work on spoken and written Japanese from an intermediate to an advanced level, allowing students to develop fluency, accuracy, and control. The material is more complicated with practice on switching levels of politeness (formal to informal). There is great emphasis on eliciting from students complex explanations and narratives rather than one-sentence answers. By the end of the term students are able to speak in paragraph-length utterances. More emphasis is placed on application and vocabulary acquisition, allowing students to deal with natural, social interactions and to begin explaining ideas. After the texts are finished, students begin reading authentic publications from Japan aimed at a native Japanese reader, learning to discuss the contents of what they have read in Japanese.

**Literature in Japanese**

**[JPLIT 4406 Introduction to Classical Japanese @ #**

Fall. 4 credits. Prerequisite: JAPAN 4402 or permission of instructor. Next offered 2010-2011. J. Kanemitsu.

Introduction to the fundamental grammar and vocabulary of classical Japanese. (LL)]

**[JPLIT 4408 Readings in Classical Japanese @ #**

Spring. 4 credits. *Satisfies Option 1.* Prerequisite: JPLIT 4406 or permission of instructor. Next offered 2010-2011. J. Kanemitsu.

Readings of excerpts and complete brief pieces from representative premodern Japanese literature mostly with the use of standard modern annotated editions. (LL)]

**[JPLIT 6617 Modern Japanese Philosophy**

Fall. 4 credits. Next offered 2010-2011. N. Sakai.

Seminar on modern Japanese philosophy. Students are expected to read texts in Japanese and discuss epistemic, historical, and practical issues involved in them. Supplementary reading of European and U.S. philosophical texts is also required. (LL)]

**[JPLIT 6618 Japanese Philosophical Discourse II**

Spring, 4 credits. Prerequisite: reading knowledge of Japanese. Next offered 2010-2011. N. Sakai. (LL)

**JPLIT 6625 Directed Readings**

Fall or spring, 4 credits. Staff.

Students choose a faculty member to oversee this independent study. The student and the faculty member work together to develop class readings. (LL)

**JPLIT 6627-6628 Advanced Directed Readings**

6627, fall; 6628, spring, 1-4 credits.

Prerequisite: permission of instructor. Staff.

**Khmer (Cambodian)****KHMER 1121-1122 Elementary Khmer I and II**

1121, fall; 1122, spring, 4 credits each semester. Prerequisite: for KHMER 1122, KHMER 1121; for beginners or those placed in course by examination. Letter grades only. H. Phan.

Gives a thorough grounding in speaking and reading.

**KHMER 2201-2202 Intermediate Khmer Reading I and II @**

2201, fall; 2202, spring, 3 credits each semester. *KHMER 2201 satisfies Option 1.* Prerequisites: for KHMER 2201, KHMER 1122; for KHMER 2202, 2201. Letter grades only. H. Phan.

Continuing instruction in spoken and written Khmer. Intermediate level of reading Khmer.

**KHMER 2203-2204 Intermediate Composition and Conversation I and II @**

2203, fall; 2204, spring, 3 credits each semester. *KHMER 2203 satisfies Option 1.* Prerequisites: for KHMER 2203, KHMER 1122; for KHMER 2204, 2203. Letter grades only. H. Phan.

**KHMER 3301-3302 Advanced Khmer I and II @**

3301, 3302, fall, 4 credits each semester. *KHMER 3301 satisfies Option 1.* Prerequisites: for KHMER 3301, KHMER 2202 or equivalent; for KHMER 3302, 3301. Letter grades only. H. Phan.

Continuing instruction in spoken and written Khmer; emphasis on enlarging vocabulary, increasing reading speed, and reading various genres and styles of prose.

**KHMER 4431-4432 Directed Study**

4431, fall; 4432, spring, 1-4 credits variable. Prerequisite: permission of instructor. Letter grades only. H. Phan.

Intended for advanced language study.

**Korean****KOREA 1101-1102 Elementary Korean I and II**

1101, fall; 1102, spring, 6 credits each semester. Prerequisites: for KOREA 1101, none; for KOREA 1102, KOREA 1101 or placement by instructor. *Students may not receive credit for both KOREA 1101 and KOREA 1109. Students may not receive credit for both KOREA 1102 and 1110.* Letter grades only. M. Song.

Covers basics of speaking, reading, and writing. Introduces Hangeul writing system and grammar.

**KOREA 1109-1110 Elementary Korean Reading and Writing I and II**

1109, fall; 1110, spring, 4 credits each semester. Prerequisites: for KOREA 1109, placement by instructor; for KOREA 1110, KOREA 1109 or placement by instructor. If in doubt about eligibility, see instructor.

*Students may not receive credit for both KOREA 1101 and KOREA 1109. Students may not receive credit for both KOREA 1102 and 1110.* Letter grades only.

M. Song.

For students who have spoken some Korean in the home, but whose reading and writing skills are limited or nonexistent.

**KOREA 2201-2202 Intermediate Korean I and II @**

2201, fall; 2202, spring, 4 credits each semester. *KOREA 2201 satisfies Option 1.* Prerequisites: for KOREA 2201, KOREA 1102 or placement by instructor; for KOREA 2202, 2201. Letter grades only. Staff.

Continuing instruction in written and spoken Korean with emphasis on consolidating basic conversational skills and improving reading ability and confidence.

**KOREA 2209-2210 Intermediate Korean Reading and Writing I and II @**

2209, fall; 2210, spring, 4 credits each semester. *KOREA 2209 satisfies Option 1.* Prerequisites: for KOREA 2209, KOREA 1110 or placement by instructor; for KOREA 2210, 2209 or placement by instructor. If in doubt about eligibility, see instructor. Letter grades only. Staff.

Intermediate level of reading comprehension and writing course for students who have acquired basic written proficiency. Introduces some reading and writing with Chinese characters.

**KOREA 3301-3302 High Intermediate Korean I and II @**

3301, fall; 3302, spring, 4 credits each semester. *KOREA 3301 satisfies Option 1.* Prerequisites: for KOREA 3301, KOREA 2202 or KOREA 2210, or placement by instructor; for KOREA 3302, 3301 or placement by instructor. Letter grades only. Staff.

Continuing instruction in Korean with emphasis upon spoken fluency and reading various materials including newspapers.

**KOREA 4401-4402 Advanced Korean I and II @**

4401, fall; 4402, spring, 4 credits. *KOREA 4401 satisfies Option 1.* Prerequisite: for KOREA 4401, KOREA 2210 or KOREA 3302 or placement by instructor; for KOREA 4402, KOREA 4401 or placement by instructor. Letter grades only. M. Song.

Develops all four language skills (speaking, listening, reading and writing) through discussion and composition at the advanced level.

**KOREA 4425 Special Topics @**

Fall, 4 credits. *KOREA 4425 satisfies Option 1.* Prerequisite: Fluency in Korean and permission of instructor. Letter grades only. Taught in Korean. J. Pak.

In-depth examination of topics on Korea.

**[KOREA 4430 Structure of Korean (also ASIAN/LING 4430) (KCM-AS)**

Spring, 4 credits. Next offered 2010-2011. J. Whitman.

For description, see LING 4430.]

**KOREA 4431-4432 Directed Study**

4431, fall; 4432, spring, 1-4 credits, variable. Prerequisite: permission of instructor. Letter grades only. Staff.

Intended for advanced language study.

**Literature in Korean****[KRLIT 4432 Middle Korean (also LING 4432) @ # (LA-AS)**

Spring, 4 credits. Prerequisite: KOREA 3301 or equivalent. Next offered 2010-2011.

J. Whitman.

For description, see LING 4432. (LL)]

**Nepali****The Cornell Nepal Study Program**

Cornell and the central campus of Tribhuvan National University (in Kirtipur, Kathmandu) cosponsor a semester or year in Nepal at the Cornell Nepal Study Program for both undergraduate and graduate students. North American students live and study with Nepali students at the Cornell program houses near the university, taking courses taught in English by faculty from Tribhuvan University. After an intensive orientation, semester courses include intensive spoken and written Nepali language, Contemporary Issues in Nepal, and Research Design and Methods in a wide variety of fields in the social and natural sciences and the humanities. (Language instruction in Tibetan and Newari may also be arranged.) There is a 10-day study tour and field trip during the semester, and students execute their research proposal during four weeks of guided field research, writing up their findings for presentation at the end of the semester.

Juniors, seniors, and graduate students from any field may apply. Students should have a desire to participate in a program featuring relatively intense cultural immersion and to undertake rigorous field research. Instruction is in English, but prior study of Nepali language is strongly recommended for Cornell students. Those interested in the program should consult Cornell Abroad (cuabroad@cornell.edu).

**NEPAL 1101-1102 Elementary Nepali I and II**

1101, fall; 1102, spring; 1101-1102, summer, 6 credits each semester.

Prerequisite: for NEPAL 1102, NEPAL 1101 or examination. Letter grades only. S. Oja.

Intended for beginners. The emphasis is on basic grammar, speaking, and comprehension skills, using culturally appropriate materials and texts. Devanagari script for reading and writing is also introduced.

**NEPAL 2201-2202 Intermediate Nepali Conversation I and II @**

2201, fall; 2202, spring; 2201-2202, summer, 3 credits each semester. *NEPAL 2201 satisfies Option 1.* Prerequisites: for NEPAL 2201, NEPAL 1102 or examination; for NEPAL 2202, 2201 or examination.

Letter grades only. S. Oja.

Intermediate instruction in spoken grammar and verbal comprehension skills, with special attention to developing technical vocabularies and other verbal skills appropriate to students' professional fields.

**NEPAL 2203-2204 Intermediate Nepali Composition I and II @**

2203, fall; 2204, spring; 2203-2204, summer. 3 credits each semester. *NEPAL 2203 satisfies Option 1.* Prerequisites: for NEPAL 2203, NEPAL 1102 or examination; for NEPAL 2204, 2203 or examination. Letter grades only. S. Oja.

Systematic review of written grammar and reading comprehension, with special attention to the technical vocabularies, necessary writing skills, and published materials typical of advanced students' professional fields.

**NEPAL 3301-3302 Advanced Nepali I and II @**

3301, fall; 3302, spring; 3301-3302, summer. 3 credits each semester. *NEPAL 3301 satisfies Option 1.* Prerequisite: NEPAL 2204 or permission of instructor. Letter grades only. S. Oja.

Reading of advanced texts, together with advanced drill on the spoken language.

**NEPAL 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits, variable. Letter grades only. S. Oja.

Permission of instructor needed. Intended for advanced language study.

**Intensive Nepali**

Nepali, the official language of Nepal, will be offered in the Summer Session at both beginning and continuing levels. Taught by faculty from Cornell University and the Cornell-Nepal Study Program at Tribhuvan University, this summer program provides an unusual opportunity to develop competence in Nepali. Emphasis will be on the spoken colloquial language, in dialogues, exercises, and conversational practice. In addition, special attention is given to assisting students in developing vocabularies and skills appropriate to their unique professional needs. Reading and writing practice use both popular and scholarly materials in the Nepali (Devanagari) script. Students will spend five hours per day in class and two further hours working with recorded materials in addition to the time required for daily preparation. Films and guest lecturers complement the summer program. The program lasts six weeks and meets five days a week. Students must formally apply to the program. Applications are available at <http://irc.cornell.edu/asian/programs/summer/nepali> during the spring semester. For more information, etc., please see Kim Scott in 350 Rockefeller Hall or e-mail: kp16@cornell.edu.

**NEPAL 1159 Summer Intensive Nepali**

Summer only. 1-5 credits. Prerequisite: permission only. Students must formally apply. S. Oja and B. Oja.

For students who take NEPAL 1160 for fewer than 6 credits. It is a six-week intensive language course beginning at the absolute beginning level and going up to intermediate level. It includes work on all four language skills: speaking, listening comprehension, reading, and writing.

**NEPAL 1160 Intensive Nepali**

Summer only. 6 credits. Prerequisite: permission only. Students must formally apply. S. Oja and B. Oja.

This intensive study of Nepali provides an unusual opportunity to obtain basic competence in the language in one summer. Emphasis is upon the spoken (colloquial) language; although attention will also be given

to assisting the students develop vocabularies appropriate to their professional fields as well. Reading and writing practice will use both colloquial and scholarly materials in the Nepali (Devanagari) script.

**NEPAL 2260 Intermediate Intensive Nepali @**

Summer only. 6 credits. *Satisfies Option 1.* Prerequisite: NEPAL 1160 or placement by Nepali instructors. Students must formally apply. S. Oja and B. Oja.

Intermediate instruction in spoken grammar and verbal comprehension skills, with special attention to developing technical vocabularies and other verbal skills appropriate to students' professional fields.

**NEPAL 3360 Advanced Intensive Nepali**

Summer only. 6 credits. *Satisfies Option 1.* Prerequisite: NEPAL 2260 or placement by Nepali instructors. Students must formally apply. S. Oja and B. Oja.

Reading of advanced texts, together with advanced drills on the spoken language.

**Pali****PALI 4450 Readings in Pali @**

Fall and spring. 3 credits. Prerequisite: permission of instructor. Letter grades only. A. Blackburn.

Readings in Pali selected in relation to student and instructor interests. This course may be repeated for credit with different topics and readings.

**Sanskrit****SANSK 1131-1132 Elementary Sanskrit I and II (also CLASS 1331-1332, LING 1131-1132)**

1131, fall; 1132, spring. 4 credits each semester. Letter grades only. A. Nussbaum and A. Ruppel.

An introduction to the essentials of Sanskrit grammar. Designed to enable the student to read classical and epic Sanskrit as quickly as possible.

**SANSK 2251-2252 Intermediate Sanskrit I and II (also CLASS 2351-2352, LING 2251-2252) @ #**

2251, fall; 2252, spring. 3 credits each semester. *SANSK 2251 satisfies Option 1.* Prerequisite: at least one year study of Sanskrit or equivalent. Offered alternate years. Letter grades only. A. Ruppel and L. McCrea.

Review of grammar and reading of selections from Sanskrit epic poetry and narrative prose.

**[SANSK 3323 Buddhist Sanskrit**

Fall. 4 credits. Next offered 2011-2012. D. Boucher.]

**SANSK 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits, variable. Prerequisite: permission of instructor. Letter grades only. Staff.

Intended for advanced language study.

**Literature in Sanskrit****SNLIT 3301-3302 Advanced Sanskrit I and II (also CLASS 3393-3394) @ (LA-AS)**

3301, fall; 3302, spring. 4 credits each semester. Prerequisite: two years study of Sanskrit or equivalent. L. McCrea.

Selected readings in Sanskrit literary and philosophical texts.

**SNLIT 4465 The Literature of Ancient India**

Spring. 4 credits. L. McCrea.

The course will survey in translation a selection of major works of poetry, drama, and aesthetic theory and criticism from the Sanskrit literary tradition of ancient India. (LL)

**Sinhala (Sinhalese)****SINHA 1121-1122 Elementary Sinhala**

1121, fall; 1122, spring. 4 credits each semester. Prerequisite: for SINHA 1122, SINHA 1121 or equivalent. Letter grades only. B. Herath.

Semi-intensive introduction to colloquial Sinhala, intended for beginners. A thorough grounding is given in all the language skills; listening, speaking, reading, and writing.

**SINHA 2201-2202 Intermediate Sinhala @**

2201, fall; 2202, spring. 3 credits each semester. *Satisfies Option 1.* Prerequisites: for SINHA 2201, SINHA 1102 or SINHA 1122; for SINHA 2202, 2201 or equivalent. Letter grades only. B. Herath.

This course further develops student competence in colloquial Sinhala, attending to all the language skills: listening, speaking, reading and writing. In addition, this course prepares students for the transition to literary Sinhala.

**SINHA 3301 Literary Sinhala I @**

Fall or spring. 3 credits. *Satisfies Option 1.* Prerequisite: SINHA 2201/2202 or permission of instructor. Letter grades only. B. Herath.

This one-semester course provides an introduction to the distinctive grammatical forms and vocabulary used in Literary Sinhala. While focused particularly on the development of reading skills, the course also introduces students to Literary Sinhala composition, and builds students' listening comprehension of semi-literary Sinhala forms (such as those used in radio and TV news).

**SINHA 4400 Literary Sinhala II**

Fall or spring. 2-4 credits variable. Prerequisite: SINHA 3301 or permission of instructor. B. Herath.

This one-semester course further develops students' comprehension of written Literary Sinhala, using sample materials from a variety of genres prepared by the instructor, as well as excerpts from texts relevant to graduate student research (when appropriate).

**SINHA 4431-4432 Directed Study**

4431, fall; 4432 spring. 1-4 credits variable. Prerequisite: permission of instructor. Letter grades only. B. Herath.

Intended for advanced language study.

**Tagalog****TAG 1121-1122 Elementary Tagalog I and II**

1121, fall; 1122, spring. 4 credits each semester. Prerequisite: for TAG 1122, TAG 1121. Letter grades only. T. Savella.

Gives a thorough grounding in basic speaking and listening skills with an introduction to reading.

**TAG 2205-2206 Intermediate Tagalog I and II @**

2205, fall; 2206, spring. 3 credits each semester. *TAG 2205 satisfies Option 1.* Prerequisites: for TAG 2205, TAG 1122 or equivalent; for TAG 2206, 2205 or equivalent. Letter grades only. T. Savella. Develops all four skills: reading, writing, speaking, and comprehension.

**TAG 3301-3302 Advanced Tagalog I and II @**

3301, fall; 3302, spring. 3 credits each semester. *TAG 3301 satisfies Option 1.* Prerequisite: TAG 2206 or equivalent. Letter grades only. T. Savella. Continuing instruction on conversational skills but with emphasis on reading and writing. Selected core readings in contemporary Tagalog literature are used, but students, in consultation with the instructor, may select some of the reading materials.

**TAG 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits, variable. Prerequisite: permission of instructor. Letter grades only. T. Savella. Intended for advanced language study.

**Tamil****TAMIL 1121-1122 Elementary Tamil I and II**

1121, fall; 1122, spring. 4 credits. Prerequisite: for TAMIL 1122, TAMIL 1121 or permission of instructor. Letter grades only. S. Chavan.

This course will teach modern spoken and written Tamil to beginning level students. Students will learn Tamil through simple conversations, sentence and question construction, grammar, culture and festivals and folk tales of Tamilians of India, and how to express performance of simple daily activities. All course activities conducted in Tamil. An interactive videoconference course.

**TAMIL 2201-2202 Intermediate Tamil I and II**

2201, fall; 2202, spring. 4 credits. *TAMIL 2201 satisfies option 1.* Prerequisite: for TAMIL 2201, TAMIL 1121/1122 or permission of instructor; for TAMIL 2202, TAMIL 2201 or permission of instructor. S. Chavan.

To teach modern spoken and written Tamil to intermediate-level students. This course helps to acquire Tamil language proficiency, which refines and expands previously acquired linguistic skills in culturally authentic contexts. This course further incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. All course activities are conducted in Tamil. Video-conference with Syracuse University.

**Thai****THAI 1101-1102 Elementary Thai**

1101, fall; 1102, spring. 6 credits each semester. Prerequisite: for THAI 1102, THAI 1101 or equivalent. Intended for beginners or students placed by examination. Letter grades only. N. Jagacinski.

Gives a thorough grounding in all the language skills: listening, speaking, reading, and writing.

**THAI 2201-2202 Intermediate Thai Reading @**

2201, fall; 2202, spring. 3 credits each semester. *THAI 2201 satisfies Option 1.* Prerequisites: for THAI 2201, THAI 1102; for THAI 2202, 2201 or equivalent. Letter grades only. N. Jagacinski. Continuing instruction in spoken and written Thai.

**THAI 2203-2204 Intermediate Composition and Conversation @**

2203, fall; 2204, spring. 3 credits each semester. *THAI 2203 satisfies Option 1.* Prerequisites: for THAI 2203, THAI 1102; for THAI 2204, 2203. Letter grades only. N. Jagacinski. Intermediate instruction in spoken and written grammar and reading comprehension.

**THAI 3301-3302 Advanced Thai @**

3301, fall; 3302, spring. 4 credits each semester. *THAI 3301 satisfies Option 1.* Prerequisite: THAI 2202 or equivalent. Letter grades only. N. Jagacinski. Selected readings in Thai writings in various fields.

**THAI 3303-3304 Thai Literature @**

3303, fall; 3304, spring. 4 credits each semester. *THAI 3303 satisfies Option 1.* Prerequisite: THAI 3302 or equivalent. Letter grades only. N. Jagacinski. Reading of significant novels, short stories, and poetry written since 1850.

**THAI 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits variable. Prerequisite: permission of instructor. Letter grades only. N. Jagacinski. Intended for advanced language study.

**Urdu****URDU 1125 Introduction to the Urdu Script (also NES 1312)**

Fall or spring. 1 credit. Prerequisite: HINDI 1101 or permission of instructor. Letter grades only. S. Singh.

Focus of this course is to learn basic Urdu script. The course will meet two times per week, for one hour each. Students will learn how to read and write basic Urdu. In addition to teaching the script, the instructors will teach a significant number of most commonly used expressions and words in Urdu.

**URDU 2201-2202 Intermediate Written Urdu I and II (also NES 2201-2202)**

2201, fall; 2202, spring. 2 credits. Prerequisite: HINDI 1102 or HINDI 1110; and URDU 1125 or permission of instructor. Letter grades only. S. Singh.

This course is designed to develop competence in Urdu reading and writing for students with a first-year knowledge of Hindi and knowledge of Urdu script. May be taken concurrently with Intermediate Hindi.

**URDU 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits variable. Prerequisite: permission of instructor. Letter grades only. S. Singh. Intended for advanced language study.

**Vietnamese****VIET 1101-1102 Elementary Vietnamese I and II**

1101, fall; 1102, spring. 6 credits each semester. Prerequisite: for VIET 1102, VIET 1101 or equivalent. Intended for beginners or students placed by examination. Letter grades only. T. Tranviet. Gives a thorough grounding in all language skills: listening, speaking, reading, and writing.

**VIET 2201-2202 Intermediate Vietnamese I and II @**

2201, fall; 2202, spring. 3 credits each semester. *VIET 2201 satisfies Option 1.* Prerequisites: for VIET 2201, VIET 1102 or equivalent; for VIET 2202, 2201. Letter grades only. T. Tranviet. Continuing instruction in spoken and written Vietnamese.

**VIET 2203-2204 Intermediate Vietnamese Composition and Reading I and II @**

2203, fall; 2204, spring. 3 credits each semester. *VIET 2203 satisfies Option 1.* Prerequisite: placement by instructor. Letter grades only. T. Tranviet. Designed for students and "native" speakers of Vietnamese whose speaking and listening skills are at the advanced level, but who still need to improve writing and reading skills.

**VIET 3301-3302 Advanced Vietnamese I and II @**

3301, fall or spring; 3302, fall or spring. 3 credits each semester. *VIET 3301 satisfies Option 1.* Prerequisites: for VIET 3301, VIET 2202 or permission of instructor; for VIET 3302, 3301. Letter grades only. T. Tranviet.

Continuing instruction in spoken and written Vietnamese; emphasis on enlarging vocabulary, increasing reading speed, and reading various genres and styles of prose.

**VIET 4431-4432 Directed Study**

4431, fall; 4432, spring. 1-4 credits, variable. Prerequisite: permission of instructor. Letter grades only. T. Tranviet. Intended for advanced language study.

**Literature in Vietnamese****[VTLIT 2222 Introduction to Classical Vietnamese @ #**

Spring. 3 credits. *Satisfies Option 1.* Prerequisite: qualification in Vietnamese or permission of instructor. Next offered 2010-2011. K. Taylor.

Introduces students to Han (classical Chinese as used in the Vietnamese language) and Nom (vernacular Vietnamese character writing). Students learn to read Han and Nom texts, from the 17th through 19th centuries, including historical records, prose writings, and poetry. (LL)

**Related Courses in Other Departments and Colleges**

Check the primary department section for the offering status of the following courses. Courses in other colleges will count as College of Arts and Sciences credit only for Asian Studies majors. Courses below generally count toward the Asian Studies major, as long as the course content is 50 percent or more focused on Asia. Such courses typically fall under the heading of Society and Culture (SC).

**Asia/General Courses**

- [ARTH 2800 Introduction to Art History: Approaches to Asian Art (SC)]
- DSOC 2050 International Development (SC)
- ECON 4730 Economics of Export-Led Development (SC)
- ILRIC 6370 Labor Relations in Asia (SC)
- ECON 4450 Industrial Policy (SC)
- ECON 4540 China and India: Growth Miracle (SC)

**China—Area Courses**

- [ANTHR 3535 The Situation of China's Minorities (SC)]
- ANTHR 7550 East Asia: Readings in Specific Problems (SC)
- CAPS/GOVT 2827 China and the World (SC)
- [ARTH 3800 Introduction to the Arts of China (SC)]
- [ARTH 4810 The Arts in Modern China (SC)]
- ECON 4690 China's Economy Under Mao and Deng (also CAPS 4690) (SC)

**Japan—Area Courses**

- ANTHR 2560 Japanese Society through Film (SC)
- ANTHR 7550 East Asia: Readings in Specific Problems (SC)
- ARCH 3309 Elements, Principles, and Theories in Japanese Architecture (SC)
- [HIST 2300 Japan and the Pacific War (SC)]

**South Asia—Area Courses**

- ANTHR 3421/6421 Sex and Gender (SC)
- ANTHR 3545 Peoples and Cultures of the Himalayas (SC)
- ANTHR 4406 Culture of Lives (SC)
- [ANTHR 6373 Human Evolution: History, Concepts, and Theory (also BIOES 6373) (SC)]
- ANTHR 7530 South Asia: Readings in Specific Problems (SC)
- ARCH 3402 Architecture as a Cultural System (SC)
- ARCH 4405 Architecture and the Mythic Imagination (SC)
- ARCH 4407 Architectural Design and the Utopian Tradition (SC)
- ARCH 4408 Topics in Architecture, Culture, and Society (SC)
- ARCH 4408–4418 Special Topics in Architectural Culture and Society (SC)
- ARCH 6401–6402 Architecture in Its Cultural Context I and II (SC)
- ARCH 6409 Graduate Investigations in Architecture, Culture, and Society (SC)
- CRP 6710 Seminar in International Planning (SC)

[ECON 4750 The Economy of India (SC)]

HD 6330 Language Acquisition (SC)

**Southeast Asia—Area Courses**

- [ANTHR 3516 Power, Society, and Culture in Southeast Asia (SC)]
- ANTHR 4420 Development of Anthropology Thought (SC)
- ANTHR 4523 Making History on the Margins: The China–SE Asian Borderlands (SC)
- ANTHR 7520 Southeast Asia: Readings in Special Problems (SC)
- ARTH 3960 The Arts of Southeast Asia (SC)
- ARTH 4900 Art and Collecting: East and West (SC)
- ARTH 4855 Threads of Consequence—Textiles in South and Southeast Asia (SC)
- GOVT 6423 Comparative Political Economy: East and Southeast Asia (SC)
- HIST 2440 The United States in Viet Nam (SC)
- HIST 3950 Southeast Asian History from the 18th Century (SC)
- HIST 6950 Early Southeast Asia: Graduate Proseminar (SC)
- HIST 6960 Modern Southeast Asia: Graduate Proseminar (SC)
- MUSIC 1341 Gamelan in Indonesian History and Cultures (SC)
- [MUSIC 3610 Cornell Gamelan Ensemble (SC)]
- [MUSIC 6301 Ethnomusicology (SC)]

**ASIAN AMERICAN STUDIES PROGRAM**

The Asian American Studies Program is a university-wide academic program housed administratively within the College of Arts and Sciences. Its aim is to promote teaching, research, and educational activities related to Asians in the Americas and to serve as a resource to the campus and regional communities. The program's undergraduate courses, offered within the program and cross-listed with departments in various colleges, meet distribution requirements and count toward a minor in Asian American Studies. The program does not offer a graduate course of study, but students can undertake graduate work in Asian American Studies within selected disciplines of the university.

**Undergraduate Minor**

The program's undergraduate minor affords students an opportunity to develop a multidisciplinary approach to the study of Asians in the hemispheric Americas. The course of study stresses developments not only within the United States, but also underscores the transnational and comparative contexts of Asian America and the field's connections with African American, American Indian, Latino, and Women's Studies. Students must work with a faculty advisor from among the program's affiliated faculty and must

complete at least 15 units of credits as follows: (1) AAS 1100 and two additional courses in Asian American Studies; (2) one course in African American, American Indian, U.S. Latino Studies, or Feminist, Gender, & Sexuality Studies\*; and (3) one course in East Asian, South Asian, or Southeast Asian Studies.\* (\*These courses must be approved by the student's faculty advisor, and they should address issues of race, gender, or the histories and cultures of Asian peoples.) Students must file an application for the minor with the Asian American Studies Program.

**Resource Center**

The program's Asian American Studies Resource Center, located in 420 Rockefeller Hall, provides meeting space for the more than 50 undergraduate student organizations of the Cornell Asian Pacific Student Union and the Society for Asian American Graduate Affairs. It also holds a modest print collection of books, periodicals, and newspapers; a current news clipping file; a comprehensive database of publications on Asian Americans since 1977; and a sizable collection of videotapes as well as music CDs on the Asian American experience.

**Research**

The program encourages faculty and student research on Asian Americans by sponsoring guest lectures, conferences, film festivals, readings, and exhibits. It also funds research projects and student travel to conferences and research sites. The Asian American Studies Workshop is the program's principal research initiative, engaging Cornell's faculty and students with invited faculty from other universities in a yearlong intensive study of selected themes.

**Core Faculty**

D. Chang, C. Lai, V. Munasinghe, S. Wong

**Courses****AAS 1100 Introduction to Asian American Studies (CA-AS)**

Spring. 3 credits. Can be used to satisfy either social science or humanities distribution requirement. S. Wong. The purpose of this course is fourfold: (1) to introduce students to the multifaceted experiences of Asians in the United States; (2) to examine how a diverse group of people came to be identified as "Asian Americans"; (3) to understand the role of difference—gender, class, ethnic—in the formation of "Asian American" identities; and (4) to link historical experiences with contemporary issues.

**AAS 2130 Introduction to Asian American History (also AMST/HIST 2640) (HA-AS)**

Fall. 4 credits. D. Chang.  
For description, see HIST 2640.

**AAS 2620 Asian American Literature (also AMST/ENGL 2620) (LA-AS)**

Spring. 4 credits. S. Wong.  
For description, see ENGL 2620.

**[AAS 3030 Asians in the Americas: A Comparative Perspective (also ANTHR 3703) (CA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
V. Munasinghe.]

**AAS 3470 Asian American Women's History (also AMST/FGSS/HIST 3470) (CA-AS)**

Spring. 4 credits. D. Chang.  
For description, see HIST 3470.

**AAS 3801/6801 Asian American Urban Experience (also AMST/CRP 3801/6801)**

Fall. 3 credits. C. Lai.  
The seminar examines the histories and geographies of urban Asian American communities. We begin with an introduction to key geographical terms and spatial theories and then use them to analyze different Asian ethnic communities throughout North America. This includes an investigation of 19th- and early-20th-century segregated ethnic enclaves on the West Coast and the East Coast as well as an examination of postwar Asian American communities in suburbs.

**AAS 3901 Asian American Politics and Public Policy (also AMST/CRP 3102/6102) (CA-AS)**

Spring. 3 credits. C. Lai.  
This lecture course examines key political and public policy issues affecting Asian American communities, such as immigration law, racial profiling, labor struggles, and electoral politics. We pay particular attention to political mobilization efforts of different Asian ethnic groups and examine how these groups have organized, framed their issues, and mobilized in terms of space, place, and spatial scale.

**AAS 3950 Race, Space, and Place (also AMST 3950/6950, CRP 3101/6101) (CA-AS)**

Fall. 3 credits. C. Lai.  
This seminar examines critical theories of race and space and investigates key sites where racial formation and spatial production intersect. These multiscale sites include the neoliberal city, the prison industrial complex, and the Mississippi Delta. We analyze not only the fatal coupling of difference, power, and space, but also the spatial politics of resistance and refusal.

**[AAS 4310 Mind, Self, and Emotion (also HD 4310) (SBA-AS)]**

3 credits. Next offered 2010-2011.  
Q. Wang.  
For description, see HD 4310.]

**[AAS 4240 Asian American Communities (also AMST/HIST 4200) (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011.  
D. Chang.]

**AAS 4520 Culture and Human Development (also COGST/HD 4520) (CA-AS)**

Spring. 3 credits. Q. Wang.  
For description see HD 4520.

**AAS 4530 20th-Century American Women Writers of Color (also AMST/ENGL/FGSS 4530) (LA-AS)**

Fall. 4 credits. S. Wong.  
For description, see ENGL 4530.

**[AAS 4790 Ethnicity and Identity Politics: An Anthropological Perspective (also ANTHR 4749) (SBA-AS)]**

Next offered 2010-2011. V. Munasinghe.  
For description, see ANTHR 4749.]

**AAS 4950 Independent Study**

Fall or spring. 1-4 credits. Topic and credit hours TBA arranged between faculty and student. Independent study forms must be approved by Asian American Studies Program office. Staff.

**[AAS 4970 Jim Crow and Exclusion-Era America (also AMST/HIST 4970/6970)]**

Spring. 4 credits. Next offered 2011-2012.  
D. Chang.]

**ASTRONOMY**

I. M. Wasserman, chair (616 Space Sciences Bldg., 254-4556); G. J. Stacey, director of undergraduate studies (212 Space Sciences Bldg., 255-5900); R. E. Bean, J. F. Bell, J. A. Burns, D. B. Campbell, D. F. Chernoff, J. M. Cordes, E. E. Flanagan, P. J. Gierasch, R. Giovanelli, M. P. Haynes, T. L. Herter, J. R. Houck, D. Lai, J. P. Lloyd, R. V. E. Lovelace, P. D. Nicholson, S. W. Squyres, Y. Terzian, S. A. Teukolsky, J. F. Veverka. Emeritus: P. F. Goldsmith, M. O. Harwit

Cornell's Astronomy faculty, research staff, graduate, and undergraduate students are active in diverse areas of modern astronomy ranging from theoretical astrophysics and general relativity to radio and radar astronomy, submillimeter, infrared and optical astronomy, and the exploration of the solar system. Cornell operates two local optical observatories, the world's largest radio telescope at Arecibo, Puerto Rico, and with two other institutions, the 200-inch optical telescope at Mt. Palomar in California. With Caltech, Cornell is carrying out a design study for a large submillimeter telescope in the high Atacama desert in Chile. Several members of the department faculty are also principal investigators on major NASA space and planetary exploration missions.

The department offers a number of courses to satisfy a general interest in astronomy. These courses have few or no prerequisites and are not intended for the training of professional astronomers. Among the introductory courses, several choices are available, depending on background and on the requirements to be fulfilled. The 1000-level courses are designed primarily for nonscience majors. The alternative introductory sequence ASTRO 2211-2212 is geared toward sophomore physical science and engineering majors and requires co-registration in beginning calculus. ASTRO 2201 and 2202 are intended for students with an interest in astronomy but no scientific background; they are topical rather than survey-oriented. ASTRO 3332 is designed for physical science and engineering majors as an introduction to astrophysics. Other courses at the 2000 and 3000 levels may appeal to students of various backgrounds and interests, as indicated in the individual course descriptions.

Courses numbered above 4000 are intended for students who have had two to three years of college physics and at least two years of college mathematics. ASTRO 4940 Independent Study permits students to engage in individual research projects under the guidance of a faculty member.

Interested students are encouraged to become members of the undergraduate Cornell Astronomy Club. The club has access to the Fuertes Observatory on campus and conducts regular observing and astrophotography sessions. All students are invited to visit the Space Sciences Building, see the exhibits on display there, and consult faculty members about career plans or choice of courses.

**The Major**

The purpose of the major in Astronomy is to provide in-depth knowledge and education about the nature of the universe. Astronomy relies heavily on preparation in physics and mathematics. Consequently, many courses in these fields are included as prerequisites. In preparation for the major, students normally elect the introductory physics sequence PHYS 1112-2213-2214 or 1116-2217-2218 and the complementary pathway in mathematics, MATH 1110-1220-2210-2220 or 1910-1920-2930-2940 (or equivalent). Students who anticipate undertaking graduate study are urged to elect the honors physics sequence PHYS 1116-2217-2218-3318-3327 if possible. We recommend, but do not require, that prospective astronomy majors take at least one of the following courses: ASTRO 2211, ASTRO 2212, ASTRO 2233, ASTRO 2290. Students are also urged to acquire computer literacy. ASTRO 3334 is designed to give students hands-on experience with the methods of analysis, visualization, and simulation needed in astrophysical research. Acceptance to the major is first considered after completion of three semesters of introductory physics and mathematics and in general requires a GPA of 3.2 in physics and mathematics courses.

The major requirements stress the importance of building a strong preparation in physical science. The following upper-level courses are normally required:

PHYS 3314 or 3318, 3316, 3323 or 3327, 3341 and 4443

AEP 3210-3220 (or equivalent, e.g., MATH 4200 and 4220)

ASTRO 4410, 4431, and 4432

With permission of the major advisor, students interested in planetary studies may substitute appropriate advanced courses or may pursue an independent major under the program in the Science of Earth Systems. Majors are encouraged to supplement the above courses with any astronomy, physics, or other appropriate courses at or above the 3000 level. Advanced seniors can enroll in astronomy graduate courses with the permission of the instructor. Students are also encouraged to work with faculty members on independent study projects under the course ASTRO 4940 or to apply to a variety of programs at Cornell, Arecibo, and elsewhere that offer undergraduates summer employment as research assistants. Nearly all undergraduate majors and concentrators become involved in research projects in the junior and senior years.

Students whose interest in astronomy is sparked somewhat late in their undergraduate career are encouraged to discuss possible paths with the director of undergraduate studies in Astronomy.

**Honors.** A student may be granted honors in Astronomy upon the recommendation of the Astronomy Advisors Committee of the Astronomy faculty. Typical requirements for graduating with honors are a minimum GPA of 3.5 over the past four semesters and grades of A- or better in ASTRO 4410, 4431, and 4432.

**Double majors.** A double major in Astronomy and another subject is possible in many circumstances. However, the set of courses used to fulfill the requirements for each major must be completely independent.

**Minor.** The minor in Astronomy for other majors normally requires 12 credits, at least 8 of which must be at the 3000 level or above. We recommend, but do not require, that sophomores planning to concentrate in Astronomy take at least one of the following courses: ASTRO 2211, ASTRO 2212, ASTRO 2233, ASTRO 2290.

### Distribution Requirement

All courses in astronomy, except ASTRO 1109, may be used to fulfill the science distribution requirement in the College of Arts and Sciences.

### Courses

#### ASTRO 1101 The Nature of the Universe (PBS)

Fall. 3 credits. Limited to 30 students per disc sec. *Students may not receive credit for both ASTRO 1101 and 1103.* J. Lloyd. Introduces students to the cosmos. The birth, evolution, and death of stars, the formation of the chemical elements, and the nature of white dwarfs, neutron stars, and black holes are discussed. An introduction to the theories of special relativity and general relativity is given. The course covers the search for other worlds outside the solar system and the possible existence of life and intelligence elsewhere in the universe. Modern theories of cosmology are presented, and the origin, structure, and fate of the universe are discussed. Most of the course notes as well as sample exams and simulations are made available on the web.

#### ASTRO 1102 Our Solar System (PBS)

Spring. 3 credits. Limited to 30 students per disc sec. *Students may not receive credit for both ASTRO 1102 and 1104.* S. Squyres and J. Veverka.

The past few decades have seen incredible advances in the exploration of our solar system. In this course students learn about the current state and past evolution of the Sun and its family of planets, moons, asteroids, and comets. The course emphasizes images and other data obtained from current and past NASA space missions and how these data provide insights about the important processes that have shaped the evolution of solar system objects. General astronomical concepts relevant to the study of the solar system are also discussed. Critical focus is on developing an understanding of the Earth as a planetary body and discovering how studies of other planets and satellites influence models of the climatic, geologic, and biologic history of our home world. Other topics covered include energy production in stars, global warming, impact hazards, the search for life in the solar system and beyond, and future missions.

#### ASTRO 1103 The Nature of the Universe (PBS)

Fall. 4 credits. Limited to 22 students per lab, 30 students per disc sec. *Students may not receive credit for both ASTRO 1101 and 1103.* J. Lloyd. Identical to ASTRO 1101 except for addition of the laboratory.

#### ASTRO 1104 Our Solar System (PBS)

Spring. 4 credits. Limited to 22 students per lab, 30 students per disc sec. *Students may not receive credit for both ASTRO 1102 and 1104.* S. Squyres and J. Veverka. Identical to ASTRO 1102 except for addition of the laboratory.

#### ASTRO 1105 An Introduction to the Universe (PBS)

Summer. 3 credits. Recommended: high school physics. *Students may not receive credit for both ASTRO 1105 and 1107.* D. Kornreich.

How do we measure the size of our galaxy and the size of the universe? Is the universe round or flat? How are the stars born, why do they shine, and how do they die? What are the chemical elements, and how were they formed in stars? What are quasars, pulsars, and black holes? How was the solar system formed? What are the environments of other planets like? What is the basic structure of Earth and the other planets? Will we catastrophically alter the earth? Does life exist elsewhere in the universe? How can we find out? Each student has an opportunity to make observations with small telescopes.

#### ASTRO 1106 Essential Ideas in Relativity and Cosmology (PBS)

Summer. 3 credits. Prerequisites: high school algebra and trigonometry. A. Brazier.

Explanation of Einstein's theories of special and general relativity, which brought about a fundamental change in our conceptual understanding of space and time. Correspondence to, and conflicts with, common sense. Applications to various areas in special relativity (space travel, the equivalence of mass and energy, nuclear fission and fusion, and thermonuclear processes in the sun) and in general relativity (motion of light and particles in curved space-time, cosmological models, and the question of whether the universe is open or closed).

#### ASTRO 1107 An Introduction to the Universe (PBS)

Summer. 4 credits. *Students may not receive credit for both ASTRO 1105 and 1107.* D. Kornreich.

Identical to ASTRO 1105 except for the addition of the afternoon laboratory that emphasizes mathematical problem-solving. This option is recommended for potential majors in science and engineering.

#### ASTRO 1195 Observational Astronomy (PBS)

Fall. 3 credits. Limited to 24 students. G. Stacey.

Provides a "hands-on" introduction to observational astronomy intended for liberal arts students at the freshman and sophomore level. High school mathematics is assumed, but otherwise there are no formal prerequisites. The course objective is to teach how we know what we know about the universe. The course is set up with two lectures and one evening laboratory per week. Not all of the evening sessions are used. Planned exercises include five or six observational labs (star gazing with binoculars and small telescopes, telescopic observations and CCD imaging of star clusters, nebulae, and the planets, solar observations, radio observations of the Milky Way Galaxy), plus a selection of exercises from the following: experiments in navigating by the stars; construction and use of simple instruments such as optical spectrometers and sun dials; laboratory spectroscopy; experiments in planetary cratering; collection and study of micrometeorites; analyses of planetary and lunar images obtained by the class, measuring the diameter of Earth or the size of the solar system.

#### ASTRO 2201 Our Home in the Universe (PBS)

Fall. 3 credits. Prerequisite: freshman or sophomore standing. No scientific background assumed. R. Giovanelli and M. Haynes.

General discussion of our relation to the physical universe and how our view of the universe has changed from ancient to modern times. Several main themes are covered over the course of the semester: the evolution of our view of the sky from that of ancient cultures to that of space telescopes; the death of stars and the formation of black holes; dark matter and the structure of galaxies; and the origin, evolution, and fate of the universe. Presents a nonmathematical introduction to these subjects and discuss uncertainties and unresolved issues in our understanding.

#### ASTRO 2202 Our Home in the Solar System (PBS)

Spring. 3 credits. Prerequisite: freshman or sophomore standing; some background in science. J. Veverka.

Writing course designed to develop an understanding of our home planet as a member of a diverse family of objects in our solar system. Discussion centers on how studies of other planets and satellites have broadened our knowledge and perspective of Earth, and vice versa. We study, debate, and learn to write critically about important issues in science and public policy that benefit from this perspective. Topics discussed include global warming, the impact threat, the searches for extrasolar planets and extraterrestrial intelligence, and the exploration of Mars.

#### ASTRO 2211 Astronomy: Stars, Galaxies, and Cosmology (PBS)

Fall. 4 credits. Intended for first- and second-year engineering and physical sciences students. Prerequisite: introductory calculus or co-registration in MATH 1110 or 1910 or permission of instructor. R. Bean.

This course offers an introduction to astrophysics aimed at prospective science and engineering majors. It covers a broad array of topics in astrophysics including the formation, structure, evolution and observational properties of normal and extreme stars, galaxies and cosmology, and the underlying physical processes governing them. The textbook is by Kutner. This course is a slightly more mathematical and physics-oriented alternative to ASTRO 1101/1103.

#### ASTRO 2212 The Solar System: Planets, Satellites, and Rings (PBS)

Spring. 4 credits. Intended for first- and second-year engineering and physical sciences students. Prerequisite: introductory calculus or co-registration in MATH 1110 or 1910; some knowledge of classical physics (mechanics and thermodynamics). D. Campbell and P. Gierasch.

Introduction to the solar system with emphasis on the quantitative application of simple physical principles to the understanding of what we observe or can deduce. Topics include the Sun and the interior processes that control its luminosity, the interiors, surfaces, and atmospheres of the planets including the effects of greenhouse gases, satellites, and small bodies, orbits of solar system bodies and the search for extra-solar planets. Results from past and current spacecraft missions will be

discussed including the Cassini mission to the Saturn system and the Mars Exploration Rovers.

**[ASTRO 2233 Topics in Astronomy and Astrophysics]**

Fall. 3 credits. Intended for sophomores planning to major in Astronomy or related fields. Prerequisites: co-registration in PHYS 1112 or 1116, MATH 1120, 1220 or 1920. Home page: [www.astro.cornell.edu/academics/courses/astro233](http://www.astro.cornell.edu/academics/courses/astro233). Next offered 2010-2011. M. Haynes and D. Campbell.]

**ASTRO 2280 Space Exploration (PBS)**

Fall. 3 credits. No special background in physical sciences, math, or engineering assumed. S. Squyres.

Provides an overview of space science, with particular emphasis on the solar system, and a detailed examination of a few selected objects, including the planet Mars, the satellites in the outer solar system, and comets. The focus is on methods of collecting information and especially on spacecraft and space missions. Topics include the design and limitations of instruments. Ethical and political questions associated with space exploration are discussed. Intended for students with an interest in science, technology, and associated policy issues.

**ASTRO 2290 Relativity and Astrophysics (PBS)**

Spring. 4 credits. Prerequisites: freshman physics, calculus, and geometry. T. Herter. Provides a geometrically based introduction to special and general relativity, followed by consideration of astrophysical applications. Includes discussion of tests of Einstein's theory of space, time, and gravitation; the physics of white dwarfs, neutron stars, and black holes; an introduction to modern cosmology.

**ASTRO 2299 Search for Life in the Universe (PBS)**

Spring. 4 credits. Prerequisites: two courses in any physical science subject or permission of instructors. J. Cordes and Y. Terzian.

Surveys the contents of the universe. Reviews theories of cosmic and stellar evolution, and of the formation and evolution of planetary systems, planetary atmospheres, and surfaces. Questions regarding the evolution of life and the development of technology are discussed. Methods to detect extraterrestrial life with emphasis on radio telescopes and associated instrumentation are presented. Hypothetical communication systems are developed and discussed.

**ASTRO 3310 Planetary Imaging Processing (PBS)**

Fall. 3 credits. Intended for sophomores or juniors majoring or concentrating in Astronomy or related fields. Prerequisites: two semesters of introductory physics and some experience with computer programming; permission of instructor required (form available in S8610). J. Bell. Reviews basic techniques employed in the collection and processing of spacecraft images of solar system objects. See [www.astro.cornell.edu/courses/astro310/main.html](http://www.astro.cornell.edu/courses/astro310/main.html) for course details.

**ASTRO 3332 Elements of Astrophysics (PBS)**

Spring. 4 credits. Prerequisites: MATH 1120, 1220, 1920, or equivalent; PHYS 2213 or 2217. J. Houck.

Introduction to astronomy, with emphasis on the application of physics to the study of the universe. Covers: physical laws of radiation; distance, size, mass, and age of stars, galaxies, and the universe; stellar evolution and nucleosynthesis; supernovae and black holes; galaxies and quasars. Introduction to cosmology. Mainly intended for students of science, engineering, and science education interested in astronomy and astrophysics.

**ASTRO 3334 Modern Astrophysical Techniques (PBS)**

Spring. 3 credits. Intended for sophomores majoring or concentrating in Astronomy or related fields. Prerequisites: two semesters of introductory physics and two semesters of calculus. Recommended: ASTRO 2233. J. Lloyd.

The course reviews the basic techniques employed in astrophysical research, both observational and theoretical, to explore the universe. Basic methods and strategies of data acquisition and image and signal processing are discussed. Students gain hands-on experience with visualization techniques and methods of error analysis, data fitting, and numerical simulation. Exercises address the processes by which astrophysicists piece together observations made with today's foremost astronomical instruments to solve questions concerning the origin of planets, stars, galaxies, and the universe itself.

**ASTRO 4410 Experimental Astronomy (PBS)**

Fall. 4 credits. Prerequisites: PHYS 2214/2218 (or 3310 or 3360), PHYS 3323/3327 (or co-registration). J. Cordes and J. Houck.

Observational astrophysics. Major experiments involve techniques in CCD (charge-coupled-device) imaging, optical photometry, optical spectroscopy, radiometry, radio spectroscopy and radio astronomy. The experiments involve use of the Hartung-Boothroyd Observatory's 24-inch telescope, a laboratory two-element radio interferometer, and a radio telescope mounted on top of the Space Sciences Building. The laboratory covers the fundamentals of using astronomical instrumentation and data analysis as applied to celestial phenomena: asteroids, normal stars, supernova remnants, globular clusters, planetary nebulae, the interstellar medium, OH masers, and galaxies.

**ASTRO 4431 Introduction to Astrophysics and Space Sciences (PBS)**

Fall. 4 credits. Prerequisites: mathematics above 2000 level and physics above 3000 level. Recommended: PHYS 4443. D. Chernoff and P. Nicholson.

Overview of modern astrophysical concepts for physical science majors. Major topics include stellar formation, structure, and evolution; stellar atmospheres; compact objects (white dwarf, neutron star, and black holes); planets; and brown dwarfs. Current research problems in these areas are introduced along the way. The emphasis is on using fundamental principles of physics to explain astronomical phenomena. A variety of physics, including elements of atomic and molecular physics, solid state physics and fluid mechanics, are introduced or reviewed in a quick, practical fashion to be put to use in solving astrophysics puzzles.

**ASTRO 4432 Introduction to Astrophysics and Space Sciences II (PBS)**

Spring. 4 credits. Prerequisite: ASTRO 4431 or permission of instructor. T. Herter and G. Stacey.

Covers two broad topics: the astrophysics of the interstellar medium and cosmology. The interstellar medium section covers thermal equilibrium and radiative transport in HII regions, atomic gas regions, and molecular clouds. The cosmology section includes expansion of the universe, metrics, Friedmann equations, dark matter, cosmological tests, the early universe, and the cosmological production of the elements.

**ASTRO 4445 Introduction to General Relativity (also PHYS 4445) (PBS)**

Fall. 4 credits. Staff.

For description, see PHYS 4445.

**ASTRO 4490 Senior Seminar Critical Thinking (PBS)**

Fall. 4 credits. Prerequisites: none. Open to all students. Y. Terzian.

Critical thinking in scientific and nonscientific contexts with selections from the history of astronomy. Topics include elements of classical logic, including standards of evidence. Case studies include examples of competing hypotheses in the history of science, as well as examples from borderline sciences. Stress is put on creative generation of alternative hypotheses and their winnowing by critical scrutiny. Topics include the nature and history of the universe, the nature of time, the nature of reality, the possibilities of life on other planets, and artificial intelligence. Fallacies, illusions, and paradoxes will also be discussed. The course includes debates by the students on controversial topics such as: Can machines think? Is science and technology to be blamed for Hiroshima and 9/11? Should the genome be improved? Is the future determined?

**ASTRO 4940 Independent Study in Astronomy**

Fall or spring. 2-4 credits. Prerequisite: permission of instructor; to register: obtain an independent study form in department office, 610 Space Sciences Bldg.

Recommended: familiarity with topics covered in ASTRO 3332, 4431, or 4434.

Individuals work on selected topics. A program of study is devised by the student and instructor.

**[ASTRO 6509 General Relativity I (also PHYS 6553)]**

Fall. 4 credits. Prerequisite: knowledge of special relativity and methods of dynamics at level of *Classical Mechanics* by Goldstein. Next offered 2010-2011.

E. Flanagan.

For description, see PHYS 6553.]

**[ASTRO 6510 General Relativity II (also PHYS 6554)]**

Spring. 4 credits. Prerequisite: ASTRO 6509. Next offered 2010-2011. E. Flanagan.

For description, see PHYS 6554.]

**ASTRO 6511 Physics of Black Holes, White Dwarfs, and Neutron Stars (also PHYS 6525)**

Fall. 4 credits. Prerequisites: all of physics at upper-division undergraduate level. D. Lai.

Compact objects (neutron stars, black holes, and white dwarfs) are the endpoints of stellar evolution. They are responsible for some of

the most exotic phenomena in the universe, including supernova explosion, radio pulsars, bright X-ray binaries, magnetars, and gamma-ray bursts. Supermassive black holes also lie at the heart of the violent processes in active galactic nuclei and quasars. The study of compact objects allows one to probe physics under extreme conditions (high densities, strong magnetic fields, and gravity). This course surveys the astrophysics of compact stars and related subjects. Emphasis is on the application of diverse theoretical physics tools to various observations of compact stars. There are no astronomy or general relativity prerequisites. At the level of *Physics of Black Holes, White Dwarfs, and Neutron Stars* by Shapiro and Teukolsky.

**ASTRO 6516 Galactic Structure and Stellar Dynamics**

Fall. 4 credits. D. Chernoff.  
Introduction to the study of the structure of galaxies via the laws of modern physics. Topics include the observed kinematics and spatial distribution of stars in the vicinity of the Sun, shapes and properties of stellar orbits, the gravitational N-body problem, collisional relaxation in stellar systems, spiral structure, galaxy classification and evolution, and cosmological results in galaxy formation.

**ASTRO 6520 Radio Astronomy**

Fall. 4 credits. J. Cordes and D. Campbell.  
Covers radio astronomy telescopes and electronics; antenna theory; observing procedures and data analysis; concepts of interferometry and aperture synthesis.

**[ASTRO 6523 Signal Modeling, Statistical Inference, and Data Mining in Astronomy]**

Fall. 4 credits. Next offered 2010–2011. J. Cordes.]

**[ASTRO 6525 Techniques of Optical/Infrared and Submillimeter Astronomy]**

Fall. 4 credits. Next offered 2010–2011. T. Herter.

Optical design, detectors, cryogenic techniques, and data analysis are discussed and related to instrument design and use within the context of current astronomical research.]

**ASTRO 6530 Astrophysical Processes**

Spring. 4 credits. D. Lai, T. Herter, and G. Stacey.

Fundamentals of radiative transfer, bremsstrahlung, synchrotron radiation, Compton scattering, spectral line transfer, gas heating and cooling and topics in atomic and molecular spectroscopy topics are discussed within the framework of astrophysical sources and problems.

**[ASTRO 6531 Astrophysical Fluid Dynamics]**

Spring. 4 credits. Next offered 2010–2011. D. Lai.]

**[ASTRO 6560 Theory of Stellar Structure and Evolution (also PHYS 7667)]**

Fall. 4 credits. Next offered 2010–2011. D. Chernoff.]

**ASTRO 6570 Physics of the Planets**

Fall. 4 credits. P. Nicholson.

Introductory survey of planetary science with an emphasis on the application of physical principles. Planetary dynamics, including satellite orbits, tidal interactions, resonances, and ring dynamics. An introduction to the theory of planetary interiors, gravitational

fields, heat sources, and rotational mechanics. Intended for graduate students and seniors in astronomy, physics, and engineering.

**[ASTRO 6571 Mechanics of the Solar System (also TAM 6730)]**

Spring. 3 credits. Next offered 2010–2011. J. Burns.

For description, see TAM 6730.]

**[ASTRO 6575 Planetary Atmospheres (also EAS 5750)]**

Fall. 4 credits. Next offered 2010–2011. P. Gierasch.]

**[ASTRO 6577 Planetary Surface Processes (also EAS 5770)]**

Spring; 3 or 4 credits (3 credits for course only; 4 credits if registered for lab trip). Next offered 2010–2011. J. Bell.]

**[ASTRO 6578 Planet Formation and Evolution (also EAS 5780)]**

Fall. 4 credits. Next offered 2010–2011. M. Pritchard.]

**[ASTRO 6579 Celestial Mechanics (also TAM 6720)]**

Spring. 3 credits. Next offered 2010–2011. J. Burns.

For description, see TAM 6720.]

**[ASTRO 6590 Galaxies and the Universe]**

Fall. 4 credits. Next offered 2010–2011. R. Giovanelli and M. Haynes.

The universe, its large-scale structure and history; morphology, photometry, dynamics, kinematics and active nuclei of galaxies; galaxy formation and evolution; cosmological theory and observations.]

**ASTRO 6599 Cosmology (also PHYS 6599)**

Spring. 4 credits. Prerequisites: statistical physics, quantum mechanics, and electromagnetic theory courses. R. Bean.

Intended to provide a detailed theoretical development of current ideas in cosmology. Topics include Big Bang cosmology and universe's matter content; a cosmological chronology very early universe, symmetry breaking, inflationary scenarios, nucleosynthesis, recombination, growth of irregularities, galaxy formation and clustering, dark energy; current and future cosmological observational approaches.

**ASTRO 6940 Advanced Study and Research**

Fall or spring. Credit TBA.

Guided reading and seminars on topics not currently covered in regular courses.

**ASTRO 7620 Seminar: Advanced Radio Astronomy**

Spring. 2 credits. Prerequisites: for advanced undergraduates, by permission of instructor. Recommended: some background in astronomical spectroscopy. R. Giovanelli and M. Haynes.

The rich and homogeneous datasets acquired by recent legacy extragalactic surveys have enabled studies of the evolution across cosmic time of galaxies and their stellar populations, their star formation rates and interstellar media as well as the determination of observational constraints imposed on large-scale structure, dark matter, dark energy and fundamental constant evolution. This seminar will explore in detail the survey strategies and technical design of recent legacy-class extragalactic surveys, including ALFALFA, SDSS, 2MASS and key projects undertaken with HST, Spitzer, GALEX, the VLA and Herschel, as well as their

data products and the Virtual Observatory tools available to mine them. The optimization of strategies of future extragalactic surveys will be investigated including those planned using AO40 and CCAT.

**[ASTRO 7621 Seminar: Planetary Radar Astronomy]**

Spring. 3 credits. Prerequisites: upper-level undergraduates and graduate students in Astronomy, engineering, and geology; good background in undergraduate mathematics and physics. Next offered 2010–2011. D. Campbell and J.-L. Margot.

Discussion of radar techniques and the results from the application of these techniques to the study of solar system bodies including the Earth.]

**ASTRO 7652 Advanced Atmospheric Dynamics (also EAS 6520)**

Spring. 3 credits. S. Colucci.

For description, see EAS 6520.

**ASTRO 7660 Cosmic Electrodynamics (also AEP 6080)**

Spring. 2 credits. R. Lovelace.

Selected topics discussed in detail: the solar wind, stellar winds, Bondi accretion, Bondi-Hoyle accretion, accretion disks with B fields, magneto-rotational instability, magneto-centrifugal winds and jets from disks, Poynting jets, funnel flows, the propeller stage of accretion, advection and convection dominated accretion flows, fast dynamo processes in astrophysics.

**ASTRO 7671 Seminar: Lunar Science and Exploration (also EAS 7310)**

Fall. 3 credits. J. Bell and M. Pritchard.

This graduate seminar (open to motivated undergraduates) will explore scientific and engineering questions related to the myriad international human and robotic lunar missions. During the weekly meeting, the instructors and students will discuss classic and recent scientific papers on lunar composition, origin, environment, surface properties, impact cratering and other topics. Students taking the class for credit will also complete individual or group research projects including analysis of new datasets. The results of these projects will be presented orally and in written form. The class will be offered for 3 credits, and may be taken for a grade or S-U.

**[ASTRO 7671 Seminar: Planetary Science—Composition and Mineralogy of the Martian Surface (also EAS 6930)]**

Spring. 3 credits. Next offered 2010–2011. J. Bell.]

**[ASTRO 7671 Seminar: Planetary Science—Micron to Millimeter Astronomy]**

Spring. 3 credits. Next offered 2010–2011. J. Houck and G. Stacey.

Covers topics of current interest in infrared and submillimeter astrophysics.]

**[ASTRO 7671 Seminar: The Nature and Exploration of Comets]**

Fall. 3 credits. Next offered 2010–2011. J. Veverka.

The course will review the current understanding of comets. Particular attention will be given to results obtained by recent spacecraft missions.]

**ASTRO 7673 Seminar: Planetary Atmospheres**

Spring, 2 credits, P. Gierasch.

Usually taught every other year. Topics vary. In the past this course has focused on the planetary boundary layer, on convection, on comparative climate dynamics and on atmospheric waves and instabilities. Topics are often chosen to treat new data that is recently available from spacecraft missions.

**ASTRO 7690 Seminar: Computational Physics (also PHYS 4480/7680)**

Spring, 3 credits. Prerequisite: working knowledge of FORTRAN. Staff.

For description, see PHYS 4480/7680.

**[ASTRO 7699 Seminar: Problems in Theoretical Astrophysics (also PHYS 7665)]**

Fall, 2 credits. Next offered 2010-2011. D. Lai.

Topics in condensed matter, atomic, nuclear and particle astrophysics will be treated, with examples from domains ranging from planets to white dwarfs and neutron stars.]

**BIOLOGICAL SCIENCES**

The biological sciences ("biology") major is distinguished from other life sciences majors by its focus on basic, as opposed to applied, aspects of biology. All biology majors take courses in genetics, evolutionary biology, and biochemistry—subjects fundamental to understanding questions spanning the full spectrum of biology in the age of genomics.

In addition to taking these core courses, each student completes a Program of Study ("concentration") that affords the opportunity for acquiring a more detailed knowledge of particular subject areas: Animal Physiology, Biochemistry, Computational Biology, Ecology and Evolutionary Biology, Genetics and Development, Insect Biology, Molecular and Cell Biology, Microbiology, Neurobiology and Behavior, Nutrition, Plant Biology, and Systematics and Biotic Diversity. Alternatively, students may choose to explore three or more of these areas in the General Biology Program of Study.

The continuing rapid advances in biology are built on an ever-greater integration with the physical sciences and mathematics. Thus, the biology major is designed to provide students with a strong foundation not only in core areas of modern biology, but also in chemistry, organic chemistry, physics, and mathematics.

Students work with faculty, staff, and student advisors in selecting their Program of Study and in choosing the course options that each offers. The Office of Undergraduate Biology (OUB) in 216 Stimson Hall oversees advising for biology majors, and also coordinates the extensive undergraduate biology research program, including the biology research honors program, and the Biology Scholars Program.

The biology major is very popular among students of both the College of Agriculture and Life Sciences and the College of Arts and Sciences. It provides excellent preparation not only for various advanced degrees in science, but also for health careers, because so many of its requirements are also requirements for medical, dental, or veterinary programs. For more details about the biology major and

minor see the section in this catalog on biological sciences or visit [www.biology.cornell.edu](http://www.biology.cornell.edu).

**Courses with Overlapping Content**

Because the department offers many courses with overlapping content, students must choose their courses carefully to ensure that they will receive credit for each course they take. Listed below are courses that have similar content. Students will receive credit for only one of the courses in each group.

BIOG 1101 & 1103, 1105, 1107, 1110

BIOG 1102 & 1104, 1106, 1108, 1109

BIOBM 3300, 3310 & 3320, 3330, NS 3200

BIOSM 3640, 3750

BIOSM 3760, BIOEE 3730

**BIOLOGY & SOCIETY MAJOR**

K. Vogel, director of undergraduate studies, College of Arts and Sciences; S. K. Obendorf, advising coordinator, College of Human Ecology; B. Chabot, advising coordinator, College of Agriculture and Life Sciences; E. Adkins-Regan, B. Bedford, W. Bemis, K. Berggren, R. Boyd, N. Breen, J. T. Brenna, D. Brown, R. Canfield, S. Ceci, B. Chabot, C. C. Chu, W. Crepet, J. Davis, P. Dear, R. Depue, G. W. Feigenson, J. Fortune, C. Geisler, W. Ghiorse, C. Goodale, C. Greene, D. Gurak, J. Haas, A. Hajek, L. Harrington, A. Hedge, S. Hilgartner, T. J. Hinrichs, B. Johnson, B. Knuth, A. Lemley, C. Leuenberger, D. Levitsky, B. Lewenstein, B. Lust, M. Lynch, K. McComas, S. McCouch, A. Netravali, S. K. Obendorf, P. Parra, A. Parrot, D. Pelletier, M. Pfeffer, T. Pinch, A. G. Power, R. Prentice, S. Pritchard, W. Provine, J. V. Reppy, S. Robertson, M. Rossiter, S. Seth, R. Stedman, R. Stoltzfus, J. Tantillo, J. Thies, V. Utermohlen, K. Vogel, R. Wayne, E. Wethington, T. Whitlow, S. Wolf. Emeritus: D. Baks, D. Bates, C. Eberhard, H. C. Howland, K. A. R. Kennedy, J. Fessenden MacDonal, J. Mueller, D. Pimentel, J. M. Stycos

The Biology & Society major is suited for students who wish to combine training in biology with perspectives from the social sciences and humanities on the social, political, and ethical aspects of modern biology. In addition to providing a foundation in biology, Biology & Society students gain a background in the social dimensions of modern biology and in the biological dimensions of contemporary social issues.

The Biology & Society major, which involves faculty from throughout the university, is offered by the Department of Science and Technology Studies. Students in the College of Arts and Sciences, the College of Human Ecology, and the College of Agriculture and Life Sciences are eligible for the major. The major is coordinated for students in all colleges through the Biology & Society Office. Students can get information, specific course requirements, and application procedures for the major from the Biology & Society office in 306 Rockefeller Hall, 255-6047.

Because the major is multidisciplinary, students must attain a basic understanding of the several disciplines it comprises. The curriculum includes courses in ethics; statistics; history,

philosophy, and social studies of science and biology; and basic biology (e.g., genetics and development; biochemistry and molecular-cell biology; ecology; evolutionary biology), as well as integrative courses offered through Biology & Society. Majors are required to take a core course and must develop a theme, an intellectually coherent grouping of courses representative of their special interest in Biology & Society. Recommended themes in the Biology & Society major include biology, behavior, and society; biology and human population; biology and public policy; environment and society; and health and society. Students may also develop their own individually tailored themes (which in recent years have included topics such as biotechnology and society and agriculture, environment, and society). In consultation with their faculty advisor, students select courses that meet the foundation and core course requirements so as to build a coherent theme. Sample curricula for the recommended themes and for several student-developed themes are available in the Biology & Society office.

Because of the interdisciplinary nature and flexibility of the Biology & Society major, we do not allow students to triple major.

Faculty members are available (according to posted office hours or by appointment) in the Biology & Society offices, 306 Rockefeller Hall, to answer questions and to provide assistance.

**Admission to the Major**

All students should have completed a year of college-level biology or two entry-level biology courses before submitting an application during their sophomore year. Juniors are considered on a case-by-case basis. Upper-division applicants should realize the difficulties of completing the major requirements in fewer than two years. Freshmen admitted to the Colleges of Agriculture and Life Sciences and Human Ecology as Biology & Society majors are considered to have been admitted to the major on a provisional basis, contingent on successful completion of the course requirement in introductory biology and submission of the application to the university major. The application includes (1) a one-page statement explaining the student's intellectual interests in the Biology & Society major and why the major is consistent with the student's academic goals and interests; (2) the theme the student wishes to pursue in the major; (3) a tentative plan of courses fulfilling Biology & Society requirements, including courses already taken and those the student plans to take; and (4) a transcript of work completed at Cornell University (and elsewhere, if applicable), current as of the date of application.

Acceptance into the major requires completion of the course sequence in introductory biology. Sophomores in the process of completing this prerequisite may be admitted to the major on a *provisional* basis. It is the student's responsibility to assure that final acceptance is granted upon satisfactory completion of the introductory biology requirement. Although only introductory biological science is a prerequisite for acceptance, students find it useful to have completed some of the other requirements (listed below) by the end of their sophomore year, preferably by the end of the first semester. Students who are considering the

major may also find it beneficial to take STS 2011, What Is Science?, in their freshman or sophomore year. Human Ecology students should also consult the current Human Ecology guide and meet with the college advising coordinator, Nancy Breen, 205 Martha Van Rensselaer Hall, 255-1928.

### Major Requirements

No single course may satisfy more than one major requirement. All courses must be taken for a letter grade.

#### 1. Basic courses

- BIOG 1101–1104 or 1105–1106 or 1107–1108 or BIOSM 1110 (prerequisite for admission to Biology & Society) or two entry-level biology courses.
- College calculus (one course):\* MATH 1106, 1110, 1120 or any higher-level calculus.
- Recommended but not required: General chemistry (one-year sequence) (prerequisite to biochemistry and other chemistry courses): CHEM 1560, 2070–2080, or 2150–2160.

- Foundation Courses** (should be completed by end of junior year). Foundation courses are intended to provide a broad introduction to methodology and theory in their area.

These courses must be above the 1000 level, at least 3 credit hours, and taken for a letter grade.

- Ethics: one course; BSOC 2051 (also STS 2051) or BSOC 2061 (also STS 2061, PHIL 2460).
- Social sciences/humanities foundation: two courses; one from any two of the following subject areas: history of science; philosophy of science; sociology of science; politics of science; and science communication.
- Biology foundation (breadth requirement): three courses; one each from three of the following subject areas: biochemistry, molecular and cell biology (BIOBM 3300 or 3310 or 3330 or NS 3200); ecology (BIOEE 2610, BIOSM 3640, BIOSM 3750); genetics and development (BIOGD 2800 or 2810 or 2820 or PLBR 2250 or NTRES 2830); evolutionary biology (BIOEE 2780); animal behavior (BIONB 2210, BIOSM 3290); neurobiology (BIONB 2220); anatomy and physiology (BIOAP 3110 or NS 3410); biological diversity (BIOPL 2410 or BIOMI 2900 or BIOEE 3730 or 2740 or 4500 or 4700 and 4701 or 4750 or 4760 or BIOSM 3080 or BIOSM 3210 or ENTOM 2120 or PLPA 3010 or 3090 or BIOSM 3100 or 3740 or 3770 or 4490); nutrition (NS 1150 or NS 1220).
- Biology foundation (Depth requirement): one biology course for which one of the above (2c) is a prerequisite.\*\*
- Statistics: one course selected from MATH 1710, BTRY 3010, AEM 2100, SOC 3010, PSYCH 3500, ECON 3190, PAM 2100, ILRST 2100 or 2120.

- Core Course: (one course).** Should be completed by end of junior year.  
BSOC 3011 Life Sciences and Society (also STS 3011); or STS 2861 Science and Human Nature (also PHIL 2860).
- Theme** (five courses that correspond to the theme selected by the student). These courses can be above the 1000 level, at least 3 credit hours, and taken for a letter grade. Choose these courses as follows:
  - Natural science issues/biology elective (two courses). Select from the list of BSOC-approved natural science issues courses or choose course(s) with introductory biology as a prerequisite.
  - Humanities/social sciences electives (two courses). Courses from the list of senior seminars may be used as theme electives if not used to meet another requirement, or select humanities or social sciences courses in consultation with the faculty advisor.
  - Senior seminar (one course taken senior year). Courses change yearly.

\* Students may petition to take a second statistics course (an advanced course, in sequence with the statistics course taken in the foundation) in place of the calculus requirement.

\*\* A list of approved depth courses using NS 1150 and NS 1220 as a prerequisite is available in 306 Rockefeller Hall.

### Independent Study

Projects under the direction of a Biology & Society faculty member are encouraged as part of the program of study in the student's theme area. Applications for research projects are accepted by individual faculty members. Students may enroll for 1–4 credits in BSOC 3751 Independent Study with written permission of the faculty supervisor and may elect either the letter grade or the S–U option. Applications and information on faculty research, scholarly activities, and undergraduate opportunities are available in the Biology & Society office, 306 Rockefeller Hall.

### The Honors Program

The honors program is designed to provide independent research opportunities for academically talented undergraduate students whose major is Biology & Society (BSOC). Students who enroll in the honors program are expected, with faculty guidance, to do independent study and research dealing with issues in Biology & Society. Students participating in the program should find the experience intellectually stimulating and rewarding whether or not they intend to pursue a research career.

Biology & Society majors are considered for entry into the honors program at the end of the second semester of the junior year. Application forms for the honors program are available in the Biology & Society office, 306 Rockefeller Hall. The honors program is available to Biology & Society majors from the Colleges of Arts and Sciences and Agriculture and Life Sciences. Biology & Society majors in the College of Human Ecology must be selected by an honors committee within their college. To qualify for the Biology & Society honors program, students must have an

overall Cornell cumulative grade point average (GPA) of at least 3.3, have formulated a research topic, and have found a project supervisor (with an academic appointment at Cornell) and another faculty member willing to serve as their advisors. At least one of these must be a member of the Biology & Society major. Applications will be reviewed by a committee headed by the director of undergraduate studies, who will notify students directly of the outcome. Students will be permitted to register for the honors program only by permission of the department. Students must enroll for both the fall and spring semesters. BSOC 4991/4992 is now cross-listed with the College of Agriculture and Life Sciences as ALS 4991/4992 and the College of Human Ecology as HE 4990. Students wishing to receive CALS credit can sign up for ALS 4991/4992 and those wishing to receive Human Ecology credit must sign up for HE 4990. They must attend the honors seminar during the fall semester. More information on the honors program is available in the Biology & Society Office, 306 Rockefeller Hall, 255-6047.

### People to contact for Biology & Society honors information:

In Arts and Sciences: Kathleen Vogel, director of undergraduate studies, kmv8@cornell.edu

In Agriculture and Life Sciences: Brian Chabot, faculty representative to CALS Honors Committee, bfc1@cornell.edu

In Human Ecology: S. Kay Obendorf, advising coordinator, CHE, sko3@cornell.edu

### Further Information

Professor Kathleen Vogel, director of undergraduate studies, kmv8@cornell.edu

Professor Brian Chabot, advising coordinator, College of Agriculture and Life Sciences, bfc1@cornell.edu

S. Kay Obendorf, advising coordinator, College of Human Ecology, sko3@cornell.edu

Susan Sullivan, Biology & Society Advising Office, 306 Rockefeller Hall, 255-6047, sfc1@cornell.edu

web site: [www.sts.cornell.edu](http://www.sts.cornell.edu)

### I. First-Year Writing Seminars

Consult the John S. Knight Institute web site for times, instructors, and descriptions. Web site: [www.arts.cornell.edu/Knight\\_institute/index.html](http://www.arts.cornell.edu/Knight_institute/index.html).

### II. Introductory Courses

#### [STS 1101 Science and Technology in the Public Arena (SBA-AS)]

Fall. 3 credits. Recommended as introduction to field. Not required; may not be used to fulfill major requirement. STS 1101 and 1102 can be taken separately or in any order. Next offered 2011–2012.

J. Reppy.

For description, see STS listings, STS 1101.]

#### STS 1102 Histories of the Future (also HIST 1620) (CA-AS)]

Spring. 3 credits. Recommended as an introduction to the field. Not required; may not be used to fulfill a major requirement. STS 1101 and 1102 may be taken separately or in any order. R. Prentice.

For description, see STS listings, STS 1102.

### III. Foundation Courses

#### A. Ethics (one course)

##### **BSOC 2051 Ethical Issues in Health and Medicine (also STS 2051) (KCM-AS)**

Fall. 4 credits. Limited to 150 students. Not open to freshmen. S. Hilgartner.

In today's rapidly changing world of health and medicine, complex ethical issues arise in many contexts—from the private, interpersonal interactions between doctor and patient to the broad, mass-mediated controversies that make medicine into headline news. This course examines ethical problems and policy issues that arise in contemporary medicine, health care, and biomedical research. Tools for ethical analysis are applied to a variety of cases and fundamental questions in bioethics. Perspectives from social science, history, and law also inform the course. The course explores ethical questions that arise in a number of substantive contexts, including the doctor-patient relationship, medical decision making near the end of life, human experimentation, genetics and reproductive technology, public health, and the allocation of scarce resources.

**BSOC 2061 Ethics and the Environment (also PHIL 2460, STS 2061) (KCM-AS)**  
Spring. 4 credits. Open to all undergraduates; freshmen by permission of instructor. S. Pritchard.

Politicians, scientists, and citizens worldwide face many environmental issues today, but they are neither simple nor straightforward. Moreover, there are many ways to understand how we have, do, and could value the environment from animal rights and wise use to deep ecology and ecofeminism. This class acquaints students with some of the challenging moral issues that arise in the context of environmental management and policy-making, both in the past and the present. Environmental concerns also highlight important economic, epistemological, legal, political, and social issues in assessing our moral obligations to nature as well as other humans. This course examines various perspectives expressed in both contemporary and historical debates over environmental ethics by exploring four central questions: What is nature? Who counts in environmental ethics? How do we know nature? Whose nature?

#### B. Social Sciences/Humanities

**Foundation** (two courses, one from any two areas)

##### 1. History of Science

##### **HIST 3150 Environmental History: The U.S. and the World (also AMST 3150)**

Fall. 4 credits. A. Sachs.  
For description, see HIST 3150.

##### **NTRES 2320 Nature and Culture**

Spring. 3 credits. J. Tantillo.  
For description, see NTRES 2320.

##### **NTRES 3320 Introduction to Ethics and Environment**

Fall. 4 credits. J. Tantillo.  
For description, see NTRES 3320.

##### **STS 2331 Agriculture, History, and Society: From Squanto to Biotechnology**

Fall. 3 credits. M. Rossiter.  
For description, see STS 2331.

##### **[STS 2811 Science in Western Civilization: Medieval and Early-Modern Europe up to Isaac Newton (also HIST 2810) # (HA-AS)]**

Fall. 4 credits. May be taken for Foundation credit if course time period better meets students theme/interest, STS 2821 preferred for major. Next offered 2010-2011. P. Dear.]

##### **STS 2821 Science in Western Civilization: Newton to Darwin, Darwin to Einstein (also HIST 2820)**

Spring. 4 credits. S. Seth.  
For description, see HIST 2820.

##### **STS 2871 Evolution (also BIOEE 2070, HIST 2870)**

Fall or summer. 3 credits. May not be taken for credit after BIOEE 2780. W. Provine.

For description, see BIOEE 2070.

##### **[STS 3551 Computers: From the 17th Century to the Dotcom Boom (also COMM/INFO 3551)]**

Fall. 4 credits. STS 3551 and 3561 may be taken separately or in any order. Next offered 2011-2012. Staff.

For description, see STS listings, STS 3551.]

##### **STS 3561 Computing Cultures (also COMM/INFO 3561, VISST 3560)**

Spring. 4 credits. STS 3551 and 3561 may be taken separately or in any order. R. Prentice.

For description, see STS listings, STS 3561.

##### **STS 4331 International History of Science**

Spring. 4 credits. M. Rossiter.  
For description, see STS listings, STS 4331.

##### **STS 4441 Historical Issues of Gender and Science (also FGSS 4440)**

Spring. 4 credits. M. Rossiter.  
For description, see STS listings, STS 4441.

##### **STS 4471 Seminar in the History of Biology (also BIOEE 4670, BSOC 4471, HIST 4150)**

Fall or summer (six-week session). 4 credits. Limited to 18 students. S-U or letter grades. W. Provine.  
For description and prerequisites, see BIOEE 4670.

#### 2. Philosophy of Science

##### **STS 2011 What Is Science? An Introduction to the Social Studies of Science and Technology (also SOC 2100)**

Spring. 3-4 credits. K. Vogel.  
For description, see STS listings, STS 2011.

##### **STS 2861 Science and Human Nature (also PHIL 2860)**

Spring. 4 credits. May be used to meet philosophy of science requirement if not used to meet core course requirement. R. Boyd.

For description, see PHIL 2860.

##### **STS 3811 Philosophy of Science: Knowledge and Objectivity (also PHIL 3810)**

Fall. 4 credits. R. Boyd.  
For description, see PHIL 3810.

#### 3. Sociology of Science

##### **BSOC 2201 Society and Natural Resources under Sociology of Science (also DSOC/NTRES 2201)**

Spring. 3 credits. R. Stedman.  
For description, see NTRES 2201.

##### **BSOC 3011 Life Sciences and Society (also STS 3011) (SBA-AS)**

Fall. 4 credits. May be used to meet sociology of science requirement *if not* used to meet core course requirement. M. Lynch.

For description, see "Core Courses," BSOC 3011.

##### **[BSOC 3311 Environmental Governance (also NTRES 3310, STS 3311) (CA-AS)]**

Spring. 3 credits. Next offered 2010-2011. S. Wolf.

For description see NTRES 3310.]

##### **[BSOC 4421 Sociology of Science (also CRP/SOC 4420, STS 4421)]**

Fall. 4 credits. Next offered 2011-2012. T. Pinch.

For description, see STS 4421.]

##### **DSOC 2200 Sociology of Health and Ethnic Minorities (also LSP 2200)**

Fall. 3 credits. P. Parra.  
For description, see DSOC 2200.

##### **HD 4520 Culture and Human Development**

Fall. 3 credits. Q. Wang.  
For description, see HD 4520.

##### **NS 2450 Social Science Perspectives on Food and Nutrition**

Fall. 3 credits. C. Bisogni and J. Sobal.  
For description and prerequisites, see NS 2450.

##### **STS 2011 What Is Science? An Introduction to the Social Studies of Science and Technology (also SOC 2100)**

Spring. 3 credits. K. Vogel.  
For description, see STS listings, STS 2011.

##### **STS 3111 The Sociology of Medicine (also SOC 3130)**

Fall. 4 credits. Not open to freshmen. C. Leuenberger.  
For description, see STS listings, STS 3111.

##### **[STS 4111 Knowledge, Technology, and Property**

Spring. 4 credits. Next offered 2011-2012. S. Hilgartner.

For description, see STS 4111.]

#### 4. Politics of Science

##### **[BSOC 3311 Environmental Governance (also NTRES 3310, STS 3311)]**

Spring. 3 credits. Next offered 2010-2011. S. Wolf.

For description see NTRES 3310.]

##### **BSOC 4071 Law, Science, and Public Values (also STS 4071)**

Spring. 4 credits. M. Lynch.  
For description, see STS listings, STS 4071.

##### **CRP 3800 Environmental Politics**

Fall. 4 credits. R. Booth.  
For description, see CRP 3800.

##### **PAM 2300 Introduction to Policy Analysis**

Fall and spring. 4 credits. R. Avery and J. Gerner.

For description, see PAM 2300.

**STS 3241 Environment and Society (also DSOC/SOC 3240)**

Fall. 3 credits. G. Gillespie.  
For description, see DSOC 3240.

**[STS 3911 Science in the American Polity: 1960 to Now (also AMST 3911, GOVT 3091)]**

Spring. 4 credits. Next offered 2010–2011.  
J. Reppy.  
For description, see STS 3991.]

**5. Science Communication****COMM 4210 Communication and the Environment**

Spring. 3 credits. May be used in Foundation only if **not** taken as senior seminar. Offered odd-numbered years.  
K. McComas.

For description, see COMM 4210.

**STS 2851 Communication, Environment, Science, and Health (also COMM 2850)**

Spring. 3 credits. B. Lewenstein.  
For description, see COMM 2850.

**[STS 3521 Science Writing for the Mass Media (also COMM 3520)]**

Fall. 3 credits. Next offered 2010–2011.  
B. Lewenstein.  
For description and prerequisites, see COMM 3520.]

**STS 4661 Public Communication of Science and Technology (also COMM 4660/6660, STS 6661)**

Spring. 3 credits. Limited to 15 students. May be used in Foundation only if **not** taken as senior seminar. Offered even-numbered years. B. Lewenstein.  
For description and prerequisites, see COMM 4660.

**C. Biology Foundation** (breadth requirement): Three courses: one from three of the following subject areas:

**1. Biochemistry, Molecular and Cell Biology****BIOBM 3300 Principles of Biochemistry, Individualized Instruction**

Fall and spring. 4 credits. J. Blankenship, P. Hinkle, and staff.  
For description and prerequisites, see BIOBM 3300.

**BIOBM 3310 Principles of Biochemistry: Proteins and Metabolism**

Fall. 3 credits. May not be taken for credit after BIOBM 3300 or 3330. G. Feigenson.  
For description and prerequisites, see BIOBM 3310.

**BIOBM 3330 Principles of Biochemistry, Lectures**

Summer, six-week session. 4 credits. S. Ely.  
For description and prerequisites, see BIOBM 3330.

**NS 3200 Introduction to Human Biochemistry**

Fall. 4 credits. P. Stover.  
For description and prerequisites, see NS 3200.

**2. Ecology****BIOEE 2610 Ecology and the Environment**

Fall. 4 credits. Not open to freshmen. Staff.  
For description and prerequisites, see BIOEE 2610.

**BIOSM 3640 Field Marine Science**

Summer. 6 credits. Taught at Shoals Marine Laboratory; for more information and application, contact the SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 3640.

**BIOSM 3750 Field Marine Biology and Ecology**

Summer. 6 credits. Taught at Shoals Marine Laboratory; for more information and application, contact the SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 3750.

**3. Genetics and Development****BIOGD 2800 Lectures in Genetics**

Fall, spring, and summer. 3 credits. T. Fox, R. MacIntyre, and D. Nero.  
For description and prerequisites, see BIOGD 2800.

**BIOGD 2810 Genetics**

Fall, spring, and summer. 5 credits. Limited to 200 students. Not open to freshmen fall semester. T. Fox, R. MacIntyre, and D. Nero.

For description and prerequisites, see BIOGD 2810.

**BIOGD 2820 Human Genetics**

Spring. 2 or 3 credits (2 credits if taken after BIOGD 2810); must be taken for 3 credits to fulfill Biology & Society requirements. Limited to 25 students per disc. M. Goldberg.

For description and prerequisites, see BIOGD 2820.

**NTRES 2830 Genetics for Population Biologists**

Fall. 3 credits. M. Hare.  
For description, see NTRES 2830.

**PLBR 2250 Plant Genetics**

Spring. 3 credits. Staff.  
For description, see PLBR 2250.

**4. Evolutionary Biology****BIOEE 2780 Evolutionary Biology**

Fall or spring. 3 or 4 credits. Fall, M. Geber; spring, staff.  
For description, see BIOEE 2780.

**5. Animal Behavior****BIONB 2210 Neurobiology and Behavior I: Introduction to Behavior**

Fall. 3, 4, or 5 credits. K. Shaw and staff.  
For description and prerequisites, see BIONB 2210.

**BIOSM 3290 Ecology of Animal Behavior**

Summer. 3, 4, or 5 credits. Taught at the Shoals Marine Laboratory; for more information, contact SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 3290.

**6. Neurobiology****BIONB 2220 Neurobiology and Behavior II: Introduction to Neurobiology**

Spring. 3 or 4 credits. J. R. Fetcho and staff.  
For description and prerequisites, see BIONB 2220.

**7. Physiology and Anatomy****BIOAP 3110 Introductory Animal Physiology, Lectures (also VTBSM 3460)**

Fall. 3 credits. M. Baustian.  
For description and prerequisites, see BIOAP 3110.

**NS 3410 Human Anatomy and Physiology**

Spring. 3 credits. K. O'Brien.  
For description, see NS 3410.

**8. Biological Diversity****BIOEE 2740 The Vertebrates: Structure, Function, and Evolution**

Spring. 4 credits. B. McGuire.  
For description and prerequisites, see BIOEE 2740.

**BIOEE 3730 Biology of the Marine Invertebrates**

Fall. 5 credits. D. Harvell.  
For description and prerequisites, see BIOEE 3730.

**[BIOEE 4500 Mammalogy (Lecture)]**

Spring. 3 credits. Next offered 2010–2011.  
B. A. McGuire.  
For description and prerequisites, see BIOEE 4500.]

**[BIOEE 4700 Herpetology, Lectures**

Spring. 2 credits; must be taken in conjunction with 4701 to count for major credit. Offered alternate years; next offered 2010–2011. H. Greene.  
For description and prerequisites, see BIOEE 4700.]

**[BIOEE 4701 Herpetology, Laboratory**

Spring. 2 credits; must be taken in conjunction with 4700 to count for major credit. Offered alternate years; next offered 2010–2011. H. Greene.  
For description and prerequisites, see BIOEE 4701.]

**BIOEE 4750 Ornithology**

Spring. 4 credits. D. Winkler.  
For description and prerequisites, see BIOEE 4750.

**[BIOEE 4760 Biology of Fishes**

Fall. 4 credits. Next offered 2010–2011.  
A. McCune.  
For description and prerequisites, see BIOEE 4760.]

**BIOMI 2900 General Microbiology Lectures**

Fall, spring, and summer. 2 or 3 credits; must be taken for 3 credits to fulfill major requirement. B. Batzing (summer) and W. Ghiorse.  
For description and prerequisites, see BIOMI 2900.

**BIOPL 2410 Introductory Botany**

Fall. 3 credits. K. Niklas.  
For description, see BIOPL 2410.

**BIOSM 3080 Field Microbial Ecology**

Summer. 4 credits. Taught at Shoals Marine Laboratory, N.H. L. Zettler and E. Zettler.  
For more information, contact the SML office at G14 Stimson Hall.

**BIOSM 3100 Marine Symbiosis**

Summer. 4 credits. Taught at Shoals Marine Laboratory, N.H. For more information, contact SML office at G14 Stimson Hall. Staff.  
For description and prerequisites, see BIOSM 3100.

**BIOSM 3210 Anatomy and Function of Marine Vertebrates**

Summer. 4 credits. Prerequisite: one year biology. Taught at Shoals Marine Laboratory, N.H. F. Fish and W. Bemis.

For more information, contact the SML office at G14 Stimson Hall.

**BIOSM 3740 Field Ornithology**

Summer. 4 credits. Taught at Shoals Marine Laboratory, N.H.; for more information, contact SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 3740.

**BIOSM 3770 Diversity of Fishes**

Summer. 4 credits. Taught at Shoals Marine Laboratory, N.H.; for more information, contact SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 3770.

**BIOSM 4490 Seaweeds, Plankton, and Seagrass: the Ecology and Systematics of Marine Plants**

Summer. 4 credits. Taught at Shoals Marine Laboratory, N.H.; for more information, contact SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 4490.

**ENTOM 2120 Insect Biology**

Fall. 4 credits. J. P. Sanderson.

For description and prerequisites, see ENTOM 2120.

**PLPA 3010 Biology and Management of Plant Diseases**

Fall. 3 credits. W. Fry.

For description, see PLPA 3010.

**[PLPA 3090 Fungi**

Fall. 3 credits. Next offered 2010–2011. K. Hodge.

For description and prerequisites, see PLPA 3090.]

**9. Nutrition****NS 1120 Nutrition and the Life Cycle**

Spring. 3 credits. P. Brannon.

For description, see NS 1120.

**NS 1150 Nutrition, Health, and Society**

Fall. 3 credits. D. Levitsky.

For description, see NS 1150.

**D. Biology Foundation** (depth requirement): one course for which one of the above breadth requirement courses (2C) is a prerequisite.

**E. Statistics** (one course)**AEM 2100 Introductory Statistics**

Spring. 4 credits. C. VanEs.

For description and prerequisites, see AEM 2100.

**BTRY 3010 Statistical Methods I**

Fall and summer. 4 credits. Fall, P. Sullivan; summer: F. King.

For description and prerequisites, see BTRY 3010.

**ECON 3190 Introduction to Statistics and Probability**

Fall. 4 credits. Y. Hong.

For description and prerequisites, see ECON 3190.

**ILRST 2100 Introductory Statistics (also STSCI 2100)**

Spring. 4 credits. Staff.

For description, see ILRST 2100.

**MATH 1710 Statistical Theory and Application in the Real World**

Fall and spring. 4 credits. Staff.

For description, see MATH 1710.

**PAM 2100 Introduction to Statistics**

Fall and spring. 4 credits. J. Lewis, T. Evans, and staff.

For description, see PAM 2100.

**PSYCH 3500 Statistics and Research Design**

Fall. 4 credits. J. Schwade.

For description, see PSYCH 3500.

**SOC 3010 Evaluating Statistical Evidence**

Fall. 4 credits. Limited to Arts and Sciences students. M. Brashears.

For description, see SOC 3010.

**IV. Core Courses****BSOC 3011 Life Sciences and Society (also STS 3011) (SBA-AS)**

Fall. 4 credits. M. Lynch.

Critical thinking about the diverse influences shaping the life sciences. Topics include evolution and natural selection, heredity and genetic determinism, biotechnology, and reproductive interventions. Students interpret episodes, past and present, in biology in light of scientists' historical location, economic and political interests, use of language, and ideas about causality and responsibility. Readings, class activities, and written assignments are designed so that students develop interpretive skills and explore their own intellectual and practical responses to controversies in biology and society.

**STS 2861 Science and Human Nature (also PHIL 2860) (KCM-AS)**

Spring. 4 credits. R. Boyd.

For description, see PHIL 2860.

**V. Themes****A. Natural Science Issues/Biology**

**Elective** (two courses). Select from the following list of BSOC-approved natural science issues courses or choose course(s) with intro biology as a prerequisite.

**BEE 3299 Sustainable Development**

Spring. 3 credits. Web-based course.

N. Scott.

For description and more information, see BEE 3299.

**[BIOEE 6730 Human Evolution: Concepts, History, and Theory (also ANTHR 6373)**

Fall. 3 credits. Next offered 2010–2011.

K. Kennedy.

For description, see BIOEE 6730.]

**BIOG 3050 Basic Immunology (also VETMI 3150)**

Fall. 3 credits. J. Appleton.

For description, see BIOG 3050.

**[BIOPL 2470 Ethnobiology**

Fall. 3 credits. Offered alternate years; next offered 2010–2011. Staff.

For description, see BIOPL 2470.]

**BIOSM 2770 Intro to Marine Conservation Biology**

Summer, two-week session. 4 credits.

Prerequisite: one year biology. Taught at Shoals Marine Laboratory, N.H. H. Weeks and K. Flessa.

For more information, contact the SML office at G14 Stimson Hall.

**BIOSM 3220 Ecology of Biological Invasions**

Summer, two-week session. 4 credits.

Prerequisite: one year biology. Taught at Shoals Marine Laboratory, N.H. R. Seeley and J. Dijkstra.

For more information, contact the SML office at G14 Stimson Hall.

**BIOSM 4720 Genetics of Marine Diversity**

Summer, two-week session. 4 credits.

Prerequisite: one year biology. Taught at Shoals Marine Laboratory, N.H. A. Sherlock.

For more information, contact the SML office at G14 Stimson Hall.

**BME 4110 Science and Technology Approaches to Problems in Human Health**

Fall. 3 credits. C. B. Schaffer and

M. G. Kaplitt.

For description, see BME 4110.

**BSOC 2101 Plagues and People (also ENTOM 2100)**

Fall. 3 credits. L. Harrington.

For description, see ENTOM 2100.

**BSOC 2141 Biological Basis of Sex Differences (also BIOAP/FGSS 2140) (PBS)**

Fall. 3 credits. Offered even-numbered years. J. Fortune.

For description, see BIOAP 2140.

**BSOC 3441 Insect Conservation Biology (also ENTOM 3440)**

Spring. 3 credits. J. Losey.

For description, see ENTOM 3440.

**[BSOC 3471 Human Growth and Development: Biological and Behavioral Interactions (also HD/NS 3470)**

Spring. 3 credits. Offered alternate years; next offered 2010–2011. J. Haas and S. Robertson.

For description and prerequisites, see HD 3470.]

**EAS 3220 Biogeochemistry of the Hawaiian Islands**

Spring. 4 credits. Prerequisites: enrollment in EES Semester in Hawaii; EAS 2200, EAS 3030, or permission of instructor. L. Derry.

For description, see EAS 3220.

**EAS 3510 Marine Ecosystems Field Course**

Spring. 4 credits. Prerequisites: EAS 2400; enrollment in EES Semester in Hawaii.

Recommended: oceanography course. C. Greene, B. Monger, and C. D. Harvell.

For description, see EAS 3510.

**ENTOM 2020 Invasions**

Spring. 3 credits. A. Hajek and J. Nyrop.

For description, see ENTOM 2020.

**ENTOM 2770 Natural Enemies and Invasive Species**

Spring. 2–3 credits (Biology & Society students must take 3-credit option).

J. P. Nyrop.

For description, see ENTOM 2770.

**ENTOM 3520 Medical and Veterinary Entomology**

Fall. 3 credits. L. Harrington.  
For description, see ENTOM 3520.

**FSAD 4390 Biomedical Materials and Devices for Human Body Repair**

Spring. 3 credits. C. Chu.  
For description, see FSAD 4390.

**[HD 2200 The Human Brain and Mind: Biological Issues in Human Development]**

Fall. 3 credits. Next offered 2010–2011.  
Staff.  
For description, see HD 2220.]

**HD 2600 Introduction to Personality (also PSYCH 2750)**

Fall. 3 credits. V. Zayas.  
For description, see HD 2600.

**[HD 3200 Human Developmental Neuropsychology: Neurobiology of Human Diseases and Disorders]**

Spring. 3 credits. Next offered 2010–2011.  
Staff.  
For description, see HD 3200.]

**[HD 3370 Language Development (also COGST/PSYCH 4360, LING 4436)]**

Spring. 4 credits. Next offered 2010–2011.  
B. Lust.  
For description, see HD 3370.]

**HD 3440 Infant Behavior and Development**

Fall. 3 credits. Not open to freshmen.  
S. Robertson.  
For description and prerequisites, see HD 3440.

**HD 3660 Emotional Functions of the Brain**

Spring. 3 credits. R. Depue.  
For description, see HD 3660.

**HD 4260 Translational Research in Memory and Neuroscience**

Fall. 4 credits. C. Brainerd.  
For description, see HD 4260.

**[HD 4330 Developmental Cognitive Neuroscience]**

Spring. 3 credits. May be used as depth course if BIONB 2210 or 2220 taken as breadth. Next offered 2010–2011. Staff.  
For description, see HD 4330.]

**[HD 4660 Psychobiology of Temperament and Personality]**

Fall. 3 credits. Next offered 2010–2011.  
R. DePue.  
For description and prerequisites, see HD 4660.]

**NS 2750 Human Biology and Evolution (also ANTHR 2750)**

Fall. 3 credits. J. Haas and Z. Gu.  
For description, see NS 2750.

**NS 3150 Obesity and the Control of Body Weight**

Spring. 3 credits. Staff.  
For description see NS 3150.

**NS 3220 Maternal and Child Nutrition**

Spring. 3 credits. Limited to 25 students.  
P. Brannon.  
For description and prerequisites, see NS 2220.

**NS 3310 Physiological and Biochemical Bases of Human Nutrition**

Spring. 4 credits. C. McCormick.  
For description and prerequisites, see NS 3310.

**NS 3500 Epidemiology in Context**

Spring. 3 credits. D. Pelletier.  
For description and prerequisites, see NS 3500.

**[NS 3610 Biology of Normal and Abnormal Behavior (also PSYCH 3610)]**

Spring. 3 credits. Prerequisite: junior or senior standing. Next offered 2010–2011.  
B. Strupp.  
For description and prerequisites, see NS 3610.]

**[NS 4210 Nutrition and Exercise]**

Spring. 3 credits. Next offered 2011–2012.  
S. Travis.  
For description, see NS 4210.]

**[NS 4750 Mechanisms of Birth Defects]**

Spring. 3 credits. Next offered 2011–2012.  
P. Stover.  
For description and prerequisites, see NS 4750.]

**NTRES 2010 Environmental Conservation**

Spring. 3 credits. T. Fahey.  
For description, see NTRES 2010.

**[NTRES 4280 Principles and Practices of Applied Wildlife Science]**

Spring. 3 credits. Offered alternate years; next offered 2011–2012. Staff.  
For description, see NTRES 4280.]

**PSYCH 2230 Introduction to Biopsychology**

Fall. 3 credits. D. Smith.  
For description, see PSYCH 2230.

**PSYCH 3260 Evolution of Human Behavior**

Spring. 4 credits. B. Johnston.  
For description and prerequisites, see PSYCH 3260.

**Examples of biology electives****ANSC 2400 Animal Reproduction and Development**

Spring. 3 credits. J. Parks.  
For description, see ANSC 2400.

**ANSC 2410 Animal Reproduction and Development Lab**

Spring. 1 credit. J. Parks.  
For description, see ANSC 2410.

**[HD 4660 Psychobiology of Temperament and Personality]**

Fall. 3 credits. Next offered 2010–2011.  
R. DePue.  
For description and prerequisites, see HD 4660.]

**NS 3310 Physiological and Biochemical Bases of Human Nutrition**

Spring. 4 credits. C. McCormick.  
For description, see NS 3310.

***B. Humanities/Social Science Elective***  
(two courses)

Courses listed earlier as social science/humanities foundation courses (2B) are particularly appropriate as social science/humanities electives. However, a single course cannot be used to meet both requirements. Examples of recommended social science or humanities electives are listed below. A more complete list is available in 306 Rockefeller Hall.

**Examples of social science electives****AEM 4640 Economics of Agricultural Development (also ECON 4640)**

Fall. 3 credits. R. Christy.  
For description, see AEM 4640.

**ALS 4000 Community Service Learning Project**

Fall and spring. 3 credits. Prerequisite: permission of instructor. Mandatory organizational meeting on August 31, 4:30 p.m., 102 Mann Library. B. Chabot.  
For more information, see ALS 4000.

**ANTHR 2411 Nature and Culture**

Spring. 4 credits. S. Sangren.  
For description, see ANTHR 2411.

**ANTHR 4900 Primate Conservation: Cross-Cultural Perspectives on Wilderness Preservation and Human-Animal Coexistence**

Spring. 4 credits. A. Arcadi.  
For description see ANTHR 4900.

**BEE 3299 Sustainable Development**

Spring. 3 credits. Web-based course.  
N. Scott.  
For description and more information, see BEE 3299.

**[BIOEE 6710 Paleoanthropology of South Asia (also ANTHR 6371, ASIAN 6671)]**

Fall. 3 credits. Next offered 2010–2011.  
K. Kennedy.  
For description, see BIOEE 6710.]

**NS 2600 Introduction to Global Health**

Spring. 3 credits. R. Stoltzfus.  
For description, see NS 2600.

**[BSOC 3311 Environmental Governance (also NTRES 3310, STS 3311)]**

Fall. 3 credits. Next offered 2010–2011.  
S. Wolf.  
For description, see NTRES 3310.]

**BSOC 3431 Biotechnology and the Economy (also STS 3431) (SBA-AS)**

Fall. 4 credits. J. Reppy.  
For description, see STS 3431.

**BSOC 4351 Postcolonial Science (also ANTHR 4435/7435)**

Spring. 4 credits. S. Langwick.  
For description, see ANTHR 4435.

**CRP 4510 Environmental Law (also CRP 5510)**

Fall. 4 credits. R. Booth.  
For description, see CRP 4510.

**DEA 4100 Facility Planning and Design in a Diverse Society**

Spring. 3 credits. L. Maxwell.  
For description, see DEA 4100.

**DEA 4150 Strategic Planning for Health Care and Educational Facilities**

Spring. 3 credits. L. Maxwell.  
For description, see DEA 4150.

**DEA 4220 Ecological Literacy in Design (also ARCH 4264)**

Spring. 3 credits. J. Elliott.  
For description, see DEA 4220.

**DSOC 2010 Population Dynamics (also SOC 2202)**

Spring. 3 credits. A. Basu and D. Brown.  
For description, see DSOC 2010.

**DSOC 2050 Rural Sociology and International Development (also SOC 2060)**

Spring. 3 credits. P. McMichael.  
For description, see DSOC 2050.

**DSOC 2650 Latinos in the U.S.A. (also LSP 2010)**

Spring. 3 credits. H. Velez-Guadalupe.  
For description see DSOC 2650.

**DSOC 4100 Health and Survival Inequalities (also FGSS/SOC 4100)**

Fall. 4 credits. A. Basu.  
For description, see DSOC 4100.

**DSOC 4210 Theories of Reproduction (also FGSS/SOC 4210)**

Spring. 4 credits. A. Basu.  
For description see DSOC 4210.

**HD 2510 Social Gerontology: Aging and the Life Course**

Spring. 3 credits. Limited to 60 students. Highly recommended: HD 2500 or equivalent, to be determined by instructor. E. Wethington.  
For description and prerequisites, see HD 2510.

**HD 2600 Introduction to Personality (also PSYCH 2750)**

Fall. 3 credits. V. Zayas.  
For description, see HD 2600.

**HD 3190 Memory and the Law**

Fall. 3 credits. C. Brainerd.  
For description, see HD 3190.

**[HD 3360 Connecting Social, Cognitive, and Emotional Development**

Fall. 3 credits. Next offered 2010–2011. P. Casasola.  
For description and prerequisites, see HD 3360.]

**HD 3430 Social Worlds of Childhood**

Spring. 4 credits. J. Ross-Bernstein.  
For description, see HD 3430.

**HD 3570 Social Inequalities in Physical and Mental Health**

Fall. 3 credits. E. Wethington.  
For description, see HD 3570.

**HD 3620 Human Bonding**

Spring. 3 credits. C. Hazan.  
For description, see HD 3620.

**HD 3700 Adult Psychopathology (also PSYCH 3250)**

Spring. 3 credits. H. Segal.  
For description, see HD 3700.

**HD 4260 Translational Research in Memory and Neuroscience**

Fall. 4 credits. C. Brainerd.  
For description, see HD 4260.

**HD 4570 Health and Social Behavior (also SOC 4570)**

Fall. 3 credits. E. Wethington.  
For description, see HD 4570.

**NS 3150 Obesity and the Control of Body Weight**

Spring. 3 credits. Staff.  
For description see NS 3150.

**[NS 4210 Nutrition and Exercise**

Spring. 3 credits. Limited to nutrition majors, others by permission of instructor. Next offered 2011–2012. S. Travis.  
For description and prerequisites, see NS 4210.]

**NS 4570 Health, Poverty and Inequality: A Global Perspective**

Spring. 3 credits. D. Sahn.  
For description see NS 4570.

**[NS 6500 Food and Nutrition Assessment in a Social Context**

Fall. 3 credits. Next offered 2011–2012. D. Pelletier and G. Peltó.  
For description and prerequisites, see NS 6500.]

**[NTRES 4310 Environmental Strategies (also DSOC 4320)**

Spring. 3 credits. Next offered 2010–2011. S. Wolf.  
For description, see NTRES 4310.]

**PAM 2350 U.S. Health Care System**

Spring. 3 credits. S. Nicholson.  
For description, see PAM 4350.

**PAM 3370 Race and Public Policy (also SOC 3370)**

Fall. 3 credits. A. Sassler.  
For description, see PAM 3370.

**PAM 3500 Contemporary Issues in Women's Health (also FGSS 3500)**

Spring. 3 credits. A. Parrot.  
For description, see PAM 3500.

**PAM 3800 Human Sexuality**

Spring. 4 credits. A. Parrot.  
For description, see PAM 3800.

**PAM 4370 Economics of Health Policy**

Fall. 3 credits. K. Simon.  
For description and prerequisites, see PAM 4370.

**Examples of humanities electives****PHIL 2410 Ethics**

Fall. 4 credits. T. Irwin.  
For description, see PHIL 2410.

**STS 4811 Problems in the Philosophy of Science (also PHIL 4810, STS 6811)**

Spring. 4 credits. R. Boyd and A. Chignell.  
For description, see PHIL 4810.

**C. Senior Seminars****ASRC 4606 The Family and Society in Africa**

Summer. 3 credits. N. Assié-Lumumba.  
For description, see ASRC 4606.

**BSOC 3181 Living in an Uncertain World: Science, Technology, and Risk (also STS 3181)**

Fall. 4 credits. S. Pritchard.  
For description, see STS 3181.

**[BSOC 4021 Bodies in Medicine, Science, and Technology (also FGSS/STS 4021) (sr sem) (CA-AS)**

Spring. 4 credits. Next offered 2010–2011. R. Prentice.  
For description, see STS 4021.]

**BSOC 4111 Vitality and Power in China (also HIST/STS 4111, SHUM 4931)**

Spring. 4 credits. Limited to 15 students. T. J. Hinrichs.  
For description, see SHUM 4931.

**BSOC 4161 Microbes and Food: Contemporary Issues Affecting Humanity (also PLPA 4160)**

Spring. 4 credits. S. Beer.  
For description, see PLPA 4160.

**BSOC 4231 Gender and Technology (also FGSS/HIST/STS 4231) (HA-AS)**

Spring. 4 credits. S. Pritchard.  
For description, see STS 4231.

**[BSOC 4291 Politics of Science (also STS 4291, GOVT 4293) (SBA-AS)**

Fall. 4 credits. Next offered 2010–2011. R. Herring.]

**BSOC 4361 Link, Network, Nexus (also SHUM 4936, STS 4361)**

Spring. 4 credits. Limited to 15 students. B. Massumi.  
For description, see SHUM 4936.

**[BSOC 4421 The Sociology of Science (also SOC 4420, STS 4421) (SBA-AS)**

Spring. 4 credits. Next offered 2010–2011. T. Pinch.  
For description, see STS 4421.]

**BSOC 4471 Seminar in the History of Biology (also BIOEE 4670, HIST 4150, STS 4471) (PBS)**

Summer, six-week session, or fall. 4 credits. W. Provine.  
For description, see BIOEE 4670.

**[BSOC 4711 The Dark Side of Biology: Biological Weapons, Bioterrorism, and Biocriminality (also STS 4711) (SBA-AS)**

Fall. 4 credits. Prerequisites: at least one course in STS and one semester of biology beyond introductory biology. Next offered 2010–2011. K. Vogel.

Rapid advances in biotechnology, as well as changing social and political climates, have created new public fears that the malicious release of pathogens and toxins by states and/or terrorist groups is a serious threat. Debates have also emerged as to what biological research and publications should be restricted and censored to prevent misuse. The course explores the scientific, social, political, legal, and ethical discussions surrounding historical and current work on dangerous pathogens and toxins. This course also takes a look at the role that the expert and lay communities play in the shaping of popular perceptions and public policies in these threat discussions.]

**BSOC 4921 The History of Reason (also HIST/STS 4921, SHUM 4932)**

Spring. 4 credits. Limited to 15 students. P. Dear.  
For description, see SHUM 4932.

**[BSOC 4961 History of Medicine in China (also ASIAN/HIST/STS 4961)**

Spring. 4 credits. Next offered 2011–2012. T. J. Hinrichs.]

**BSOC 6610-6611 Environmental Policy (also ALS/BIOEE 6610-6611) (PBS)**

Fall and spring (yearlong). Students must enroll in both BSOC 6610 and BSOC 6611. 3 credits each semester. Limited to 12 students. D. Pimentel.  
For description and prerequisites, see BIOEE 6610-6611.

**COML 4900 Energy, Empire, Modernity (also COML 6900)**

Fall. 4 credits. A. Banerjee.  
For description, see COML 4900.

**COMM 4210 Communication and the Environment**

Spring. 3 credits. Offered odd-numbered years. K. McComas.  
For description, see COMM 4210.

**CSS 4100 Environmental Impacts of Agricultural Biotechnology**

Spring. 3 credits. D. Buckley and P. Hobbs.  
For description, see CSS 4100.

**CSS 4940 Biotechnology and Development (also GOVT 4300)**

Spring. 4 credits. R. Herring and J. Thies.  
For description see CSS 4940.

**DSOC 4380 Population and Development (also DSOC 6380, SOC 2370)**

Spring. 3 credits. D. Gurak.  
For description, see DSOC 4380.

**[HD 3360 Connecting Social, Cognitive, and Emotional Development]**

Fall. 3 credits. Next offered 2010–2011.  
M. Casasola.  
For description, see HD 3360.]

**HD 3430 Social Worlds of Childhood**

Spring. 4 credits. J. Ross-Bernstein.  
For description, see HD 3430.

**[HD 4140 Social and Psychological Aspects of the Death Penalty]**

Spring. 3 credits. Next offered 2010–2011.  
C. J. Brainerd.  
For description, see HD 4140.]

**[HD 4180 Aging: Contemporary Issues]**

Fall. 3 credits. Next offered 2010–2011.  
J. Mikels.  
For description, see HD 4180.]

**[HD 4190 Midlife Development]**

Fall. 3 credits. Next offered 2010–2011.  
A. Ong.  
For description, see HD 4190.]

**HD 4200 Laboratory in Risk and Traditional Decision-Making**

Spring. 3 credits. V. Reyna.  
For description, see HD 4200.

**HD 4310 Mind, Self, and Emotion: Research Seminar**

Spring. 3 credits. Q. Wang.  
For description, see HD 4310.]

**[HD 4320 Cognitive, Social, and Developmental Aspects of Scientific Reasoning (also COGST 4320)]**

Fall. 3 credits. Next offered 2010–2011.  
B. Koslowski.  
For description, see HD 4320.]

**HD 4590 Transitions Across the Life Span**

Fall. 3 credits. C. Loeckenhoff.  
For description, see HD 4590.

**[HD 4640 Adolescent Sexuality (also FGSS 4670)]**

Fall. 3 credits. Next offered 2010–2011.  
R. Savin-Williams.  
For description, see HD 4640.]

**[HD 4660 Psychobiology of Temperament and Personality]**

Fall. 3 credits. Next offered 2010–2011.  
R. Depue.  
For description and prerequisites, see HD 4660.]

**HD 4680 Stress in Childhood and Adolescence**

Spring. 3 credits. J. Eckenrode.  
For description, see HD 4680.

**HD 4740 Autism and the Development of Social Cognition**

Fall. 3 credits. M. Belmonte.  
For description, see HD 4740.

**HD 4780 Attention Deficit/Hyperactivity Disorder in Children**

Spring. 3 credits. S. Robertson.  
For description, see HD 4780.

**NS 4600 Explorations in Global Health**

Spring. 3 credits. Prerequisite: Global Health minors or permission of instructor.  
D. Pelletier.  
For description, see NS 4600.

**NTRES 4330 Applied Environmental Philosophy**

Spring. 4 credits. J. Tantillo.  
For description, see NTRES 4330.

**[PAM 4570 Innovation and Entrepreneurship in the Health Care Industry]**

Fall. 3 credits. Next offered 2010–2011.  
J. Kuder.  
For description see PAM 4570.]

**PAM 5520 Health Care Services: Consumer and Ethical Perspectives**

Fall. 4 credits. A. Parrot.  
For description, see PAM 5520.

**[PAM 5560 Managed Care]**

Fall. 3 credits. For undergraduate seniors only, by permission of instructor. Next offered 2010–2011. J. Kuder.  
For description, see PAM 5560.]

**[STS 4111 Knowledge, Technology, and Property]**

Spring. 4 credits. Next offered 2011–2012.  
S. Hilgartner.  
For description, see STS 4111.]

**STS 4221 New York Women (also FGSS 4220) (HA-AS)**

Fall. 4 credits. M. Rossiter.  
For description, see STS listing, STS 4221.

**STS 4311 From Surgery to Simulation**

Spring. 4 credits. R. Prentice.  
For description, see STS 4311.]

**STS 4441 Historical Issues of Gender and Science (also FGSS 4440) (CA-AS)**

Spring. 4 credits. M. Rossiter.  
For description see STS listing, STS 4441.

**STS 4531 Knowledge and Society (also SOC 4530) (CA-AS)**

Spring. 4 credits. C. Leuenberger.  
For description, see STS 4531.

**STS 4661 Public Communication of Science and Technology (also COMM 4660/6660, STS 6661)**

Spring. 3 credits. Limited to 15 students. Offered even-numbered years.  
B. Lewenstein.  
For description and prerequisites, see COMM 4660.

**STS 4751 Science, Race, and Colonialism (also HIST 4751)**

Fall. 4 credits. S. Seth.  
For description see STS listing, STS 4751.

**STS 4951 Social Studies of the Human Sciences**

Fall. 4 credits. C. Leuenberger.  
For description, see STS listing, STS 4951.

**VI. Other Courses**

**BSOC 1451 Body, Mind, and Health (also STS 1451) # (CA-AS)**

Summer. 3 credits. Open only to junior and senior high school students. M. Hurst.  
For description, see STS 1451.

**BSOC 3751 Independent Study**

Fall or spring. 1–4 credits. Prerequisite: biology and society majors; written permission of faculty supervisor.  
Projects under the direction of a Biology and Society faculty member are encouraged as part of the program of study within the student's concentration area. Applications for research projects are accepted by individual faculty members. Students may enroll for 1 to 4 credits in BSOC 3751 Independent Study with written permission of the faculty supervisor and may elect either the letter grade or the S–U option. Students may elect to do an independent study project as an

alternative to, or in advance of, an honors project. Applications and information on faculty research, scholarly activities, and undergraduate opportunities are available in the Biology and Society Office, 306 Rockefeller Hall. *Independent study credits may not be used in completion of the major requirements.*

**BSOC 4991/4992 Honors Project I and II (also ALS 4991/4992, HE 4990)**

Fall and spring (yearlong). Prerequisite: senior biology and society students by permission of department; overall GPA of 3.3. Students should apply in 306 Rockefeller Hall. Arts and Sciences students should enroll in BSOC 4991 to receive Arts and Sciences credit; CALS students should enroll in ALS 4991 to receive College of Agriculture and Life Sciences credit; HE students should enroll in HE 4990 for College of Human Ecology credit. Students who are admitted to the honors program are required to complete two semesters of honors project research and to write an honors thesis. The project must include substantial research, and the completed work should be of wider scope and greater originality than is normal for an upper-level course. The student must find a project supervisor and a second faculty member willing to serve as faculty reader; at least one of these must be a member of the Biology and Society faculty.

Students must register for the 4 credits each semester for a total of 8 credits. After the fall semester, students receive a letter grade of “R”; a letter grade for both semesters is submitted at the end of the second semester whether or not the student completes a thesis or is recommended for honors. Minimally, an honors thesis outline and bibliography should be completed during the first semester. In consultation with the advisors, the director of undergraduate studies will evaluate whether the student should continue working on an honors project. Students should note that these courses are to be taken in addition to those courses that meet the regular major requirements.

**If students do not complete the second semester of the honors project, they must change the first semester to independent study to clear the “R” and receive a grade. Otherwise, the “R” will remain on their record and prevent them from graduating.**

**BURMESE**

See “Department of Asian Studies.”

**CAMBODIAN (KHMER)**

See “Department of Asian Studies.”

**CATALAN**

See “Department of Romance Studies.”

**CENTER FOR APPLIED MATHEMATICS**

The Center for Applied Mathematics administers a broadly based interdepartmental graduate program that provides opportunities

for study and research over a wide range of the mathematical sciences. This program is based on a solid foundation in analysis, algebra, and methods of applied mathematics. The remainder of the graduate student's program is designed by the student and his or her Special Committee. For detailed information on opportunities for graduate study in applied mathematics, students should contact the director of graduate studies of the Center for Applied Mathematics, 657 Frank H. T. Rhodes Hall.

There is no special undergraduate degree program in applied mathematics. Undergraduate students interested in an application-oriented program in mathematics may select an appropriate program in the Department of Mathematics, the Department of Computer Science, or some department of the College of Engineering.

A listing of selected graduate courses in applied mathematics can be found in the description of the center under "Interdisciplinary Centers, Programs, and Studies."

## CENTER FOR INTERNATIONAL STUDIES

See "Interdisciplinary Centers, Programs, and Studies."

## CHEMISTRY AND CHEMICAL BIOLOGY

B. A. Baird, chair (122 Baker Laboratory, 255-4175); D. B. Collum, associate chair; P. J. Chirik, director of undergraduate studies; H. D. Abuña, B. A. Baird, R. A. Cerione, G. Chan, P. Chen, P. J. Chirik, G. W. Coates, D. B. Collum, B. R. Crane, H. F. Davis, S. DeBeer George, W. R. Dichtel, F. J. DiSalvo, S. E. Ealick, G. S. Ezra, J. H. Freed, B. Ganem, M. A. Hines, R. Hoffmann, S. Lee, H. Lin, D. R. Lorey, J. A. Marohn, J. Njardarson, J. Park, P. Peterson, T. Rutledge, D. Y. Sogah, J. Terry, D. A. Usher, B. Widom, P. T. Wolczanski, D. B. Zax

The Department of Chemistry and Chemical Biology offers a full range of courses in physical, organic, inorganic, analytical, theoretical, bioorganic, and biophysical chemistry. In addition to their teaching interests, chemistry and chemical biology faculty members have active research programs. The link between teaching and research is a vital one in a continuously evolving scientific subject; it ensures that students will be provided with the most advanced information and perspectives and affords opportunities for students to participate in research. For additional information about the department and course offerings, see the department course web page ([www.chem.cornell.edu](http://www.chem.cornell.edu)).

### The Major

To fit the widely varying needs of our undergraduate majors, the department offers two different tracks that both lead to the same undergraduate degree:

**Standard Major**—The standard major provides a comprehensive background in all fields of chemistry. Most students who complete the standard major go on to

graduate study in chemistry or to medical school, although some students proceed directly to a position in the chemical industry. With additional independent research (which is not required), the standard chemistry major is fully accredited by the American Chemical Society.

**Alternative Major**—The alternative major offers a flexible program of study that is primarily designed for students who intend to double major in another field. For example, students majoring in biology can complete the alternative major with little additional class work. This program might also be attractive for students interested in law (especially patent law), as a double major in government or economics plus chemistry is quite feasible. This program is not suited to further graduate work in chemistry. With few exceptions, students in the alternative major are not chosen to participate in the honors program in chemistry. The alternative major is not accredited by the American Chemical Society.

Either version of the major can be completed in three years of study. Most students, however, complete all of the requirements in their first three years with the exception of CHEM 4100, Inorganic Chemistry, which is usually taken in the fall semester of the senior year. The typical chemistry course sequence is:

first year: general chemistry and mathematics

second year: organic chemistry, analytical and organic laboratories, and physics

third year: physical chemistry lectures and laboratories

fourth year: inorganic chemistry

### Admission to the Major

Admission to the chemistry major requires the satisfactory completion of a number of introductory courses which, when taken together, demonstrate an ability to complete the major. These courses include (1) CHEM 2150-2160 or 2070-2080 (CHEM 2090 or 1560 may be substituted for 2070 but 1560 is not recommended); (2) CHEM 3000; (3) PHYS 2207 or 1112 or 1116; and (4) MATH 1110 or 1910. Second-semester sophomores (or beyond) who have completed all but one of these requirements may be admitted to the major provided that they have a plan for completing the major on schedule.

### The Standard Major

The following courses must be completed for the standard major:

General chemistry: CHEM 2070 + 2080 or CHEM 2150 + 2160. (CHEM 2090 or 1560 may be substituted for CHEM 2070, but 1560 is not recommended).

Organic chemistry: CHEM 3570 + 3580 or CHEM 3590 + 3600

Physical chemistry: CHEM 3890 + 3900

Inorganic chemistry: CHEM 4100

Laboratory chemistry: CHEM 3000 + 3010 + 3020 + 3030

Physics: (PHYS 2207 or 1112 or 1116) + (PHYS 2208 or 2213).

Mathematics: MATH 1110 + 1120 + 2130 or MATH 1110 + 1220 + 2210 + 2220 or MATH 1910 + 1920 + 2930

Most standard majors also perform independent research at some point in their academic career, either during the semester or in the summer. Many students take advanced courses to complement this program.

### The Alternative Major

The following courses must be completed for the alternative major:

General chemistry: CHEM 2070 + 2080 or CHEM 2150 + 2160. (CHEM 2090 or 1560 may be substituted for CHEM 2070, but 1560 is not recommended)

Organic chemistry: CHEM 1570 (CHEM 3570 + 3580 or CHEM 3590 + 3600 may be substituted)

Physical chemistry: CHEM 2870 (CHEM 3890 + 3900 may be substituted)

Inorganic chemistry: CHEM 4100

Laboratory chemistry: CHEM 2510 + 2900 + 3000 (CHEM 3010 may be substituted for CHEM 2510; CHEM 3030 may be substituted for CHEM 2900).

Physics: (PHYS 2207 or 1112 or 1116) + (PHYS 2208 or 2213)

Mathematics: MATH 1110 + 1120 or MATH 1110 + 1220 or MATH 1910 + 1920

One additional 3- or 4-credit advanced chemistry course at the 3000 level or above. (CHEM 3580, 3600 or 3900 can be used to satisfy this requirement.)

Three additional courses, of 3 or more credits each, that form a cohesive unit and are not at the introductory level. These three courses must be approved by the director of undergraduate studies.

The three additional courses may be in another field of study, such as biochemistry, physics, biology, materials science, economics, government, or education. Many students who double major use courses from their second major to satisfy this requirement.

Like the standard majors, many alternative majors perform independent research, either in the chemistry department or with a member of the Chemistry field.

### Honors

Any student who completes the requirements for a standard major in chemistry with a cumulative GPA of 3.5 or higher shall be awarded a degree with honors (cum laude).

In addition, senior chemistry majors who have superior grades in chemistry and related subjects and who have had good performance in at least 8 credits of undergraduate research (or the equivalent) in chemistry or a related field (e.g., biochemistry) may be nominated for the honors program. To ensure that the nomination process runs smoothly, all students who are interested in the honors program should discuss this possibility with their advisor early in the fall semester of the senior year. Admission to the honors program is by invitation only. Students completing the alternative major are only eligible for the honors program in exceptional cases.

Students in the honors program participate in the honors seminar (CHEM 4980) and write a senior thesis. The successful completion of the honors program leads to the degree of bachelor of arts with honors or high honors in chemistry.

## Program for Science Teachers

Chemistry majors who wish to become teachers will be interested to know that Cornell University offers a certification program for teachers of secondary (grades 7–12) science. Interested students apply to the program during their sophomore or junior years. If accepted, students integrate some course work in education with the rest of their undergraduate studies. All chemistry majors who enter this program will remain in the College of Arts and Sciences to complete the major.

After earning the bachelor's degree, certification students enter the graduate field of education to complete a fifth year of study at Cornell. Following this fifth year, students are eligible for a master's degree from Cornell and a teaching certificate from New York State. For additional information, contact the Department of Education, 255-2207.

## Laboratory Course Regulations

Students registered for laboratory courses who do not appear at the first meeting of the laboratory will forfeit their place in that laboratory but are not automatically dropped from the course.

**Students and members of the teaching staff are required to wear safety goggles and lab aprons in all chemistry laboratories. Closed-toed footwear is required (no sandals). Students are reminded to take their goggles and lab aprons to the first laboratory session. Those who fail to cooperate with the safety program will be asked to leave the laboratories.**

Students in organic and analytical labs are required to pay for glassware and any other items broken or missing from their laboratory desks at the close of each semester. Students who fail to inventory their desks at the appointed time in the presence of their instructor are charged a \$20 fee in addition to charges for any breakage.

## Courses

**Note:** Class meeting times are accurate at the time of publication. If changes occur, the department will provide new information as soon as possible.

Preliminary examinations for all courses may be given in the evening.

## Courses with Overlapping Content

Because the department offers several courses with overlapping content, students should select courses carefully to meet the needs of their academic programs and to ensure credit for each course they take. Listed below are groups of courses with largely similar content. In general, students may receive credit for only one course in each group.

CHEM 1560, 2070, 2090, 2160

CHEM 2080, 2150

CHEM 1570, 3570

### CHEM 1007 Academic Support for CHEM 2070

Fall, spring. 1 transcript credit only; cannot be used toward graduation.

CHEM 1007 reviews material presented in CHEM 2070 lectures and also provides problem-solving strategies and practice. This course is recommended for students who want to improve their chemistry problem-solving

skills. CHEM 1007 is not a substitute for CHEM 2070 lectures and recitations.

### CHEM 1008 Academic Support for CHEM 2080

Fall, spring. 1 transcript credit only; cannot be used toward graduation.

CHEM 1008 reviews material presented in CHEM 2080 lectures and also provides problem-solving strategies and practice. This course is recommended for students who want to improve their chemistry problem-solving skills. CHEM 1008 is not a substitute for CHEM 2080 lectures and recitations.

### CHEM 1057 Academic Support for CHEM 3570

Fall, spring. 1 transcript credit only; cannot be used toward graduation.

Reviews material presented in CHEM 3570 lectures and offers practice with CHEM 3570 material. Weekly review sessions focus on the most important topics covered in lecture, and office hours held throughout the week are designed to help improve performance in CHEM 3570.

### CHEM 1058 Academic Support for CHEM 3580

Fall, spring. 1 transcript credit only; cannot be used toward graduation.

Reviews material presented in CHEM 3580 lectures and offers practice with CHEM 3580 material. Weekly review sessions focus on the most important topics covered in lecture and office hours held throughout the week are designed to help improve performance in CHEM 3580.

### CHEM 1150 The Language of Chemistry (PBS)

Fall. 3 credits. Contributes to satisfying CALS physical science requirement of one course in chemistry. S–U or letter grades.

Lec, M W F. T. Rutledge.

Adam Sandler once said, "Chemistry can be a good and a bad thing. Chemistry is good when you make love with it. Chemistry is bad when you make crack with it." Using this sophisticated view of chemistry as a perhaps widely held perception and as a focus, a thorough examination of the good and the bad that chemistry has accomplished will be examined.

### [CHEM 1160 The World of Chemistry (PBS)

Spring. 3 credits. Contributes to satisfying CALS physical science requirement of one course in chemistry. S–U or letter grades.

Lec, M W F. Next offered 2010–2011.

Students in *The World of Chemistry* will explore the stresses we have placed on our ecosystem—and atmosphere—and learn how chemistry allows us to understand these problems and to repair them.]

### CHEM 1560 Introduction to General Chemistry (PBS)

Fall or summer. 4 credits. Limited enrollment. Nonrefundable lab fee (covers cost of safety goggles, lab apron, and breakage): \$20. Lec, M W F; lab, M, T, W, R, or F; prelims, Oct. 1, Nov. 12. S. Lee.

A one-semester introduction to chemistry, both qualitative and quantitative. CHEM 1560 prepares students for CHEM 1570; CHEM 1560 is not recommended for premedical or pre-veterinary students; however, students who have never taken a chemistry course in secondary school or who have a very weak preparation sometimes take CHEM 1560 + 2080.

### CHEM 1570 Introduction to Organic and Biological Chemistry (PBS)

Spring or summer. 3 credits. Prerequisite: CHEM 1560 or 2070. Because CHEM 1570 is only a 3-credit course, it does not provide a practical route to satisfying medical school requirements. Because of duplication of materials, students who take both 1570 and 3570 will receive graduation credit only for CHEM 1570. Lec, M W F; prelims, Feb. 18, Mar. 16, Apr. 13. W. Dichtel.

Introduction to organic chemistry with an emphasis on those structures and reactions of organic compounds having particular relevance to biological chemistry.

### CHEM 2070–2080 General Chemistry (PBS)

2070, fall or summer; 2080, spring or summer. 4 credits each semester. CHEM 2070 (or CHEM 2090) is a prerequisite for CHEM 2080. (CHEM 1560 is accepted, but not recommended.) CHEM 2070 has a \$20 nonrefundable lab fee that covers cost of safety goggles, lab apron, and breakage. Engineering students should take CHEM 2090 and cannot take CHEM 2070 without written permission from the Chemistry Office of Undergraduate Studies and the College of Engineering. Exceptionally well prepared students may receive credit for CHEM 2070 by demonstrating competence in the advanced placement examination of the College Entrance Examination Board or in the departmental examination given at Cornell before classes start in the fall. Taking CHEM 2080 after 2150 may be done only by permission of the Director of Undergraduate Studies. Lec, T R; lab, M T W R F; discs, T W R F; prelims, Oct. 6, Nov. 12, Mar. 2, Apr. 13. Fall; F. J. DiSalvo and D. B. Zax; spring, D. A. Usher.

Covers fundamental chemical principles, with considerable attention given to the quantitative aspects and techniques important for further work in chemistry.

### CHEM 2090 Engineering General Chemistry

Fall or spring. 4 credits. Enrollment limited to Engineering students; students from other colleges cannot take CHEM 2090 without written permission from the Chemistry Office of Undergraduate Studies. Prerequisite: high school chemistry or permission of instructor. CHEM 2090 is required of all Engineering freshmen and is a prerequisite for CHEM 2080. Entering students exceptionally well prepared in chemistry may receive advanced placement credit for General Chemistry by demonstrating competence in the advanced placement examination of the College Entrance Examination Board or in the departmental examination given at Cornell before classes start in the fall. Nonrefundable lab fee (covers cost of safety goggles, lab apron, and breakage): \$20. Lec, M W F; lab, M T W R F; prelims, Oct. 6, Nov. 12, Mar. 2, Apr. 13. Fall: P. Chen; spring: P. T. Wolczanski.

Covers basic chemical concepts, such as reactivity and bonding of molecules, intermolecular forces in liquids and solids, gases, chemical equilibrium, thermodynamics, introductory quantum mechanics, and kinetics. Attention will be focused on aspects of chemistry most pertinent to engineering.

**CHEM 2150-2160 Honors General and Inorganic Chemistry (PBS)**

2150, fall; 2160, spring. 4 credits each semester. Limited enrollment. Prerequisites: two years high school chemistry or permission of instructor, physics, and mathematics. Corequisite: calculus course at level of MATH 1110 or 1910 for students who have not taken high school calculus; for CHEM 2160, CHEM 2150.

Recommended for students who intend to specialize in chemistry or in related fields. Taking CHEM 2080 after CHEM 2150 may be done only by permission of director of undergraduate studies. Nonrefundable lab fee (covers cost of safety goggles, lab apron, and breakage): \$20. Lec, M W F; lab, M T W R or F; prelims, Oct. 8, Nov. 12, Mar. 2, Apr. 8. Fall: H. F. Davis; spring: S. Lee.

Intensive systematic study of the laws and concepts of chemistry, with considerable emphasis on quantitative aspects. First semester covers thermochemistry, kinetics, and equilibrium. Second semester includes systematics of inorganic chemistry. Laboratory work covers qualitative and quantitative analysis, transition metal chemistry, and spectroscopic techniques.

**CHEM 2510 Introduction to Experimental Organic Chemistry**

Fall, spring, or summer. 2 credits. Limited enrollment. Corequisite: CHEM 1570 or 3570. Not recommended for chemistry majors considering graduate school in chemistry. Lec, fall, R or F; spring, R; lab, M T W R or F; prelims, fall: Nov. 17; spring: Apr. 15. T. Ruttledge.

Introduction to the synthesis, separation, characterization, and handling of materials, including the applications of different types of chromatography, extraction, crystallization, infrared spectroscopy, polarimetry, and others.

**CHEM 2870-2880 Introductory Physical Chemistry (PBS)**

2870, fall; 2880, spring. 3 credits each semester. Prerequisites: CHEM 2080 or 2160 and MATH 1110-1120 and PHYS 2208, or permission of instructor; for CHEM 2880, CHEM 2870 or 3890. Lec, M W F; prelims: 2870: Oct. 8, Nov. 24. 2880: Mar. 11, Apr. 20. Fall: R. F. Loring; spring: H. F. Davis.

Survey of the fundamental principles of physical chemistry, focusing in the fall on thermodynamics, chemical kinetics, and the electronic structure of atoms and molecules. In the spring, the course is oriented to the application of physical chemistry to biological systems, including statistical mechanics, phenomena in condensed phases, transport, electrochemistry, and spectroscopy. CHEM 2870 satisfies the minimum requirement for physical chemistry in the alternative chemistry major.

**CHEM 2900 Introductory Physical Chemistry Laboratory**

Spring. 2 credits each semester. Lec, T R; lab: M T R F. J. A. Marohn.

Survey of the methods basic to the experimental study of physical chemistry, with a focus on the areas of kinetics, equilibrium, calorimetry, and molecular spectroscopy.

**CHEM 3000 Quantitative Chemistry**

Fall. 2 credits. Prerequisite: CHEM 2080 or 2160 or advanced placement in chemistry.

Lec, R; lab, M T W R. J. A. Marohn.

Volumetric, spectrophotometric, and potentiometric methods are emphasized. Techniques are learned by analysis of knowns, and then are used on unknowns. Lectures and problem sets stress the relationship between theory and applications.

**CHEM 3010 Honors Experimental Chemistry I (PBS)**

Spring. 4 credits. Prerequisites: CHEM 3000 and 3570 or 3590. Lec, M W F; 2 labs, M W or T R. T. Ruttledge.

Introduction to the techniques of synthetic organic chemistry. A representative selection of the most important classes of organic reactions is explored in the first half of the semester, augmented by lectures on the reaction chemistry and the theory of separation and characterization techniques.

**CHEM 3020 Honors Experimental Chemistry II (PBS)**

Fall. 4 credits. Limited enrollment; priority given to chemistry majors. Prerequisite: CHEM 3010. Lec, M W F; 2 labs, M W T R. F. H. D. Abruña.

Instrumental methods of analysis, including chemical microscopy, visible and infrared spectroscopies, and gas chromatography.

**CHEM 3030 Honors Experimental Chemistry III (PBS)**

Spring. 4 credits. Limited to 10 students per lab. Prerequisites: CHEM 3020, 3890, 3900; co-registration in latter permissible. Lec, M W F; 2 labs, M W or T R. D. B. Zax.

Introduction to experimental physical chemistry, including topics in spectroscopy and kinetics. The analysis and numerical simulation of experimental data is stressed.

**CHEM 3570-3580 Organic Chemistry for the Life Sciences (PBS)**

Fall or summer, 3570; spring or summer, 3580. 3 credits each semester. Prerequisite: for CHEM 3570, CHEM 2080 or 2160 or advanced placement; for CHEM 3580, CHEM 3570 or permission of instructor. Recommended: concurrent registration in CHEM 2510 or 3000. Because of duplication of material, students who take both CHEM 1570 and 3570 will receive graduation credit only for CHEM 1570. Lec, M W F, optional disc may be offered; prelims, Sept. 24, Oct. 20, Nov. 12, Feb. 18, Mar. 16, Apr. 22. Fall: J. Njardarson; spring: D. Y. Sogah.

Study of the more important classes of carbon compounds—including those encountered in the biological sciences. Emphasizes their three-dimensional structures, mechanisms of their characteristic reactions, their synthesis, methods of identifying them, and their role in modern science and technology.

**CHEM 3590-3600 Honors Organic Chemistry I and II (PBS)**

3590, fall; 3600, spring. 4 credits each semester. Limited enrollment. Prerequisites: CHEM 2080 or CHEM 2160 or permission of instructor. Recommended: co-registration in CHEM 3000-3010-3020. Recommended for students who intend to specialize in chemistry or closely related fields. Lec, M W F; disc, W; prelims, Sept. 24, Oct. 27, Nov. 12, Spring: Feb. 18, Mar. 16, Apr. 22. Fall: B. Ganem; spring, H. Lin.

Rigorous and systematic study of organic compounds, their structures, the mechanisms

of their reactions, and the ways they are synthesized in nature and in the laboratory.

**CHEM 3890-3900 Honors Physical Chemistry I and II (PBS)**

Fall, 3890; spring, 3900. 4 credits each semester. Prerequisites: MATH 2130 or 2210-2220; PHYS 2208; CHEM 2080 or 2160 or permission of instructor; for CHEM 3900, CHEM 3890. Lec, 3890: M W F; rec, M, T, or W. Lec, 3900: M W F; rec M W R; prelims: 3890, Sept. 29, Oct. 27, Nov. 24; 3900, Feb. 18, Mar. 16, Apr. 15. Fall, 3890: G. S. Ezra; spring, 3900: J. Park.

CHEM 3890 is primarily an introduction to the quantum mechanics of atoms and molecules. The behavior of ensembles of quantum mechanical particles (statistical mechanics) is introduced near the end of the semester. Rotational, vibrational and electronic spectroscopy are covered in detail. CHEM 3900 is a continuation of CHEM 3890 and discusses the thermodynamic behavior of macroscopic systems in the context of quantum and statistical mechanics. Kinetic theory and the laws of thermodynamics are covered in detail.

**[CHEM 4040 Entrepreneurship in Chemical Enterprise**

Spring. 1 credit. Lec, T. Next offered 2010-2011. B. Ganem.

Designed to acquaint students with the problems of planning, starting, and managing a new scientifically oriented business venture, the course consists of six weekly 90-minute meetings focusing on case studies and assigned reading, as well as outside lectures by entrepreneurs in the chemical, pharmaceutical, and biotechnology industries. Topics include new technology evaluation and assessment, business formation, resource allocation, management development, as well as manufacturing and sales issues.]

**CHEM 4100 Inorganic Chemistry (PBS)**

Fall. 4 credits. Prerequisites: CHEM 3580 or 3600, and 2870 or 3900. Lec, M W F; prelims, Sept. 24, Oct. 20, Nov. 12. S. DeBeer George.

Systematic study of the synthesis, structure, bonding, reactivity, and uses of inorganic, organometallic, and solid-state compounds.

**CHEM 4210 Introduction to Inorganic Chemistry Research**

Fall or spring. 2-4 credits. Prerequisites: CHEM 3030 and 3890-3900, or 2870-2880, and 2900 with average of B- or better, or permission of instructor. Selected faculty. Research in inorganic chemistry involving both laboratory and library work, planned in consultation with a faculty member.

**CHEM 4330 Introduction to Analytical Chemistry Research**

Fall or spring. 2-4 credits. Prerequisites: CHEM 3030 and 3900 with average of B- or better or permission of instructor. Selected faculty.

Research in analytical chemistry involving both laboratory and library work, planned in consultation with a faculty member.

**[CHEM 4400 Bio-Inorganic Chemistry (PBS)**

Spring. 3 credits. Prerequisites: CHEM 2150-2160 or 2070-2080, 3570-3580, 3590-3600 or equivalent. Lec, W F. Next offered 2010-2011. B. R. Crane.

Addresses important aspects of inorganic chemistry in biological systems. Topics include: (1) the distribution and properties of

metals in biology; (2) coordination chemistry of biological metals; (3) properties of metal-containing macromolecules; (4) redox processes and long-range electron transfer; (5) metallocofactors and metal clusters; (6) Lewis acid catalysis; (7) metal-oxygen reactions in biology; and (8) metal trafficking and metalloprotein assembly.]

**CHEM 4500 Principles of Chemical Biology (also BIOBM 4500) (I) (PBS)**

Fall. 3 credits. Prerequisites: CHEM 3570–3580, 3590–3600 or equivalent. Lec, T R. H. Lin.

Covers topics at the interface of chemistry and biology with a focus on problems where organic chemistry has made a particularly strong contribution to understanding the mechanism of the biological system. Topics include the organic chemistry of carbohydrates, proteins and nucleic acids, strategies for identifying the cellular target of physiologically active natural products, combinatorial chemistry, and chemical aspects of signal transduction, cell division and development.

**[CHEM 4510 Structural Chemical Biology (PBS)]**

Spring. 3 credits. Prerequisites: CHEM 2880 and 3580 or equivalent. Lec, T; lab, R. Next offered 2010–2011. S. Ealick.

This course is intended for students with a basic understanding of chemistry who want more knowledge about chemical biology. The interrelationship between the structure and function of biologically important molecules will be explored.]

**CHEM 4610 Introduction to Organic Chemistry Research**

Fall or spring. 2–4 credits. Prerequisites: CHEM 3020 and 3580 or 3600 with grade of B– or better or permission of instructor. Selected faculty.

Research in organic chemistry involving both laboratory and library work, planned in consultation with a faculty member.

**CHEM 4770 Introduction to Physical Chemistry Research**

Fall or spring. 2–4 credits. Prerequisite: CHEM 3900 with average of B– or better or permission of instructor. Selected faculty.

Research in physical chemistry involving both laboratory and library work, planned in consultation with a faculty member.

**CHEM 4980 Honors Seminar**

Spring. 0 credits. Admission only by department invitation. Additional pre- or corequisites: outstanding performance in two coherent 4-credit units of research in course such as CHEM 4210, 4330, 4610, 4770; or equivalent amount of research in another context. Lec W. G. W. Coates and F. J. DiSalvo.

In the Chemistry Honors Seminar students will present their research in written and oral form. The Seminar will also include a broader discussion of professional issues and life skills in the world of chemistry.

**CHEM 6000–6010 General Chemistry Colloquium**

6000, fall; 6010, spring. 0 credits. R. Staff. Series of talks representative of all fields of current research interest in chemistry given by distinguished visitors and faculty members.

**CHEM 6020 Information Literacy for the Physical Scientist**

Spring. 1 credit. Primarily for graduate students and undergraduate chemistry majors doing research. Lec, T. L. Solla.

Introduction to physical science information research methods, with hands-on exploration of print and electronic resources. Much important information can be missed and valuable time wasted without efficient information research strategies. Topics include finding chemical and physical properties, reaction and analytical information; patents, web resources; using specialized resources in chemistry, physics, biochemistry, and materials science; and managing citations.

**CHEM 6050 Advanced Inorganic Chemistry I: Symmetry, Structure, and Reactivity**

Fall. 4 credits. Prerequisite: CHEM 3890–3900 or equivalent or permission of instructor. Lec, M W F. P. Wolczanski.

Introduction to chemical bonding and applications of group theory, including valence bond theory, and spectroscopy as applied to main group and transition-metal coordination compounds. An introduction to reactivity covers substitution, electron transfer, and related reactions. Readings are at the level of Carter's *Molecular Symmetry and Group Theory* and Jordan's *Reaction Mechanisms of Inorganic and Organometallic Systems*.

**[CHEM 6060 Advanced Inorganic Chemistry II: Synthesis, Structure, and Reactivity of Coordination Compounds, and Bioinorganic Chemistry]**

Spring. 4 credits. Prerequisite: CHEM 6050 or equivalent or permission of instructor. Lec, M W F. Next offered 2010–2011. P. T. Wolczanski.

Synthesis, structure, and reactivity of main group and modern coordination compounds and bioinorganic systems. The mechanisms of transition-metal reactions are emphasized, and evaluation of the current literature are stressed.]

**[CHEM 6070 Advanced Inorganic Chemistry III: Solid-State Chemistry]**

Spring. 4 credits. Prerequisite: undergraduate inorganic chemistry or permission of instructor. Lec, M W F. Next offered 2010–2011. S. Lee.

Third in a three-semester sequence. Interdisciplinary approach to solids. Topics include solid-state structure and X-ray diffraction, phase diagrams, diffusion kinetics, synthetic methods, electronic structure, and physical properties of solids.]

**CHEM 6080 Advanced Inorganic Chemistry I: Organometallic Chemistry**

Spring. 4 credits. Prerequisites: CHEM 6050, 6650, or permission of instructor. M W F. P. J. Chirik.

Synthesis, structure, and reactivity of organometallic compounds and applications in catalysis. Evaluation of the current literature is emphasized, and background readings are at the level of *Applications of Organotransition Metal Chemistry* by Collman, Hegedus, Finke, and Norton and *Organometallic Chemistry of the Transition Metals* by Crabtree.

**[CHEM 6250 Advanced Analytical Chemistry I]**

Spring. 4 credits. Prerequisite: CHEM 2880 or 3890 or equivalent. Lec, M W F; occasional labs, TBA. W. Next offered 2010–2011. D. B. Zax.

Application of high-resolution NMR spectroscopy, infrared, and mass spectroscopy to chemical problems. Some practical experience in NMR and MS is offered.]

**[CHEM 6270 Advanced Analytical Chemistry II]**

Spring. 3 credits. Primarily for graduate students. Prerequisite: CHEM 7930 or equivalent preferable. Lec, M W F. Next offered 2010–2011. D. B. Zax.

Modern techniques in nuclear magnetic resonance. Little overlap is expected with CHEM 6250, as this course focuses on more general questions of experimental design, understanding of multipulse experiments, and aspects of coherent averaging theory.]

**[CHEM 6280 Trace Element and Isotopic Analysis (also NS 6900)]**

Fall. 3 credits. Primarily for graduate students and advanced undergraduates. Prerequisite: CHEM 2880 or 3900 or 3020, or CHEM 2080 and PHYS 2208, or permission of instructor. Lec, T R. Offered alternate years; next offered 2010–2011. J. T. Brenna.

Survey course in modern high-precision isotope ratio mass spectrometry (IRMS) techniques and trace/surface methods of analysis.]

**CHEM 6290 Electrochemistry**

Spring. 4 credits. Primarily for graduate students and junior and senior undergraduates. Prerequisite: CHEM 3900 or equivalent. Recommended: MATH 2130. Lec, T R. H. D. Abruña.

Fundamentals and applications of electrochemistry. Topics include the fundamentals of electrode kinetics, electron transfer theory, the electrical double layer, diffusion, and other modes of transport. A broad range of electrochemical techniques and instrumentation will also be covered.

**CHEM 6500–6510 Organic and Organometallic Chemistry Seminar**

6500, fall; 6510, spring. 0 credits. Requirement for graduate students majoring in organic or bioorganic chemistry. Juniors and seniors encouraged to attend. T R. Staff.

Series of talks representative of all fields of current research interest in organic organometallic chemistry, given by research associates, faculty members, and distinguished visitors.

**CHEM 6650 Advanced Organic Chemistry**

Fall. 4 credits. Primarily for graduate students and junior and senior undergraduates. Prerequisites: CHEM 3580 or 3600, and CHEM 3900 or equivalents, or permission of instructor; some knowledge of elementary quantum mechanics. Lec, M W F. W. R. Dichtel.

Discussion of the properties of organic molecules, reactive intermediates, and the underlying physical phenomena that affect them.

**CHEM 6660 Synthetic Organic Chemistry**

Spring. 4 credits. Primarily for graduate students and upperclass undergraduates. Prerequisite: CHEM 6650 or permission of instructor. Lec, T R. D. B. Collum.

Modern techniques of organic synthesis; applications of organic reaction mechanisms and retrosynthetic analysis to the problems encountered in rational multistep synthesis, with particular emphasis on modern developments in synthesis design.

**[CHEM 6670 Topics in Chemical Biology]**

Fall. 4 credits. Prerequisite: CHEM 3600 or equivalent, BIOBM 3300 or permission of instructor. Lec, M W F. Next offered 2010–2011. H. Lin.

This course is intended for advanced undergraduate students majoring in chemical biology and graduate students working in related areas. The topics that will be covered fall into two general areas: Antibiotics: Mechanism of action of different types of antibiotics; Biosynthesis of polyketide and nonribosomal peptide antibiotics; Antibiotic resistance mechanisms and strategies to overcome antibiotic resistance.]

**[CHEM 6680 Chemical Aspects of Biological Processes]**

Fall. 4 credits. Prerequisite: CHEM 3600 or equivalent. Lec, T R. Next offered 2010–2011. T. P. Begley.

Examines a representative selection of the most important classes of enzyme-catalyzed reactions from a mechanistic perspective. Topics include the chemical basis of enzymatic catalysis, techniques for the elucidation of enzyme mechanism, cofactor chemistry, and the biosynthesis of selected natural products. The application of chemical principles to understanding biological processes is emphasized.]

**[CHEM 6690 Organic and Polymer Synthesis Using Transition Metal Catalysts]**

Spring. 4 credits. Prerequisite: primarily for graduate students or advanced undergraduates; CHEM 3590/3600 or equivalent or permission of instructor. Next offered 2010–2011. G. W. Coates.

Transition metal-based catalysts are invaluable in both organic and polymer synthesis. This course begins with a brief overview of organometallic chemistry and catalysis.]

**[CHEM 6700 Fundamental Principles of Polymer Chemistry]**

Fall. 4 credits. Prerequisite: CHEM 3590/3600 or equivalent or permission of instructor. Primarily for graduate students and advanced undergraduates. No previous knowledge of polymers required. Lec, T R. G. W. Coates.

Emphasizes general concepts and fundamental principles of polymer chemistry. The first part of the course deals with general introduction to classes of polymers, molar masses and their distributions, and a brief survey of major methods of polymer synthesis. The second part deals with characterization and physical properties. These include solution properties—solubility and solubility parameters, solution viscosity, molecular weight characterizations (gel permeation chromatography, viscometry, light scattering, osmometry); bulk properties—thermal and mechanical properties; dynamic mechanical properties; and structure-property relationships.

**[CHEM 6710 Synthetic Polymer Chemistry (also CHEM 6750, MSE 6710)]**

Spring. 4 credits. Prerequisites: minimum of organic chemistry at level of CHEM 3590/3600. Students without this organic chemistry background should see instructor before registering. Primarily for graduate students and advanced undergraduates. Recommended: knowledge of material covered in CHEM 6700 or MSE 6220. Lec, T R. Next offered 2010–2011. D. Y. Sogah.

Emphasizes application of organic synthetic methods to the development of polymerization methods and control of polymer architecture. Emphasizes modern concepts in synthetic polymer chemistry and topics of current interest: the study of new methods of polymer synthesis, the control of polymer stereochemistry and topology, and the design of polymers tailored for specific uses and properties.]

**[CHEM 6720 Kinetics and Regulation of Enzyme Systems]**

Spring. 4 credits. Primarily for graduate students with interests in biophysical chemistry and quantitative treatments of protein function. Prerequisite: CHEM 2880 or 3900, BIOBM 3300, 3310, or equivalents or permission of instructor. Lec, M W F. Next offered 2010–2011. B. Baird.

Focus is on protein interactions and related changes in structure and activity. Topics include protein structure and dynamics; thermodynamics and kinetics of ligand binding; steady state and transient enzyme kinetics; enzyme catalysis and regulation; and the role of cell membrane receptors in regulating cellular activities.]

**[CHEM 6770 Chemistry of Nucleic Acids]**

Fall. 4 credits. Primarily for graduate students. Prerequisites: CHEM 3580 or 3600, and 3900 or equivalents. Lec, M W. Next offered 2010–2011. D. A. Usher.

Structure, properties, synthesis, and reactions of nucleic acids from a chemical point of view. Special topics include RNAi, antisense and antigene technology, ribozyme reactions (including the ribosome), mutagens, PCR, recent advances in sequencing, DNA as a computer, and alternative genetic materials.]

**[CHEM 6810 Introduction to Quantum Chemistry]**

Fall. 4 credits. Prerequisites: one year of undergraduate physical chemistry, three semesters of calculus, one year of college physics. Lec T R. Next offered 2010–2011. G. S. Ezra.

Introduction to the application of quantum mechanics in chemistry. Covers many of the topics in CHEM 7930–7940 at a more descriptive, less mathematical level.]

**[CHEM 6860 Physical Chemistry of Proteins]**

Fall. 4 credits. Primarily for graduate students. Prerequisite: CHEM 2880 or 3900 or equivalents. Letter grades for undergraduate and graduates. Lec, M W F. B. R. Crane.

Protein studies using physical methods are presented, with focuses on using single molecule spectroscopic methods and on metalloprotein structures/functions. Topics include: (1) physical concepts: chemical structure and conformation of proteins; protein folding energy landscape; electron transfer theory; enzyme kinetics; protein-

protein interactions; protein–DNA interactions. (2) Experimental methodologies: absorption/emission spectroscopy; fluorescence resonance energy transfer; confocal microscopy; total internal reflection microscopy; single molecule spectroscopy; time correlated single photon counting; fluorescence correlation spectroscopy; atomic force microscopy; optical/magnetic tweezers; super resolution optical microscopy; (3) Protein structure and function: oxygen binding and activation proteins; electron transfer proteins; oxygenases and oxidases; metallochaperones; metalloregulatory proteins; green fluorescent proteins; motor proteins (kinesin, dynein and F1-ATPase); and live cell imaging.

**[CHEM 7000 Baker Lectures]**

Fall and spring. Next offered 2010–2011. Distinguished scientists who have made significant contributions to chemistry will come to Cornell for one-day symposiums. Refer to the Chemistry and Chemical Biology web site for more information, [www.chem.cornell.edu](http://www.chem.cornell.edu).]

**[CHEM 7010 Introductory Graduate Seminar]**

Fall. 0 credits. Highly recommended for all senior graduate students in any field of chemistry. Lec, W. Next offered 2010–2011. R. Hoffmann.

Discussion of professional issues facing young chemists as well as life skills: academic and industrial trends, presentations, employment, immigration, publication, research funding, and ethics.]

**[CHEM 7160 Introduction to Solid State Organic Chemistry]**

Spring. 3 credits. Recommended: CHEM 6070 or some exposure to or course in solid state chemistry and quantum mechanics; good undergraduate physical chemistry course may be sufficient for quantum theory; PHYS 4443 or CHEM 7930 or 7940 are at substantially higher level than what is needed. Lec, M W F. Next offered 2010–2011. S. Lee.

Examines some principles of crystallography and also electronic structure theory of solids. We then consider properties such as conduction, superconductivity, ferroelectricity and ferromagnetism. The final portion of this course is concerned with structure-property relations.]

**[CHEM 7650 Physical Organic Chemistry I]**

Fall. 4 credits. Primarily for graduate students. Lec, M W F. C. F. Wilcox.

Explores contemporary tools for calculating molecular structures and energies of species of all sizes. The course uses computers extensively but requires only a limited knowledge of mathematics.)

**[CHEM 7740 Chemistry of Natural Products: Combinatorial Chemistry]**

Spring. 3 credits. Prerequisites: CHEM 3600 and BIOBM 3300 or equivalent. Lec, M W F. Next offered 2010–2011. T. P. Begley.

This course explores the design, synthesis, screening, and use of natural (i.e., peptide, protein, nucleic acid, carbohydrate) and unnatural (i.e., totally synthetic) libraries.]

**[CHEM 7800 Chemical Kinetics and Molecular Reaction Dynamics]**

Fall. 4 credits. Prerequisite: CHEM 6810 or permission of instructor. Lec, T R. Next offered 2010–2011. Staff.

Principles and theories of chemical kinetics and molecular reaction dynamics. Topics include potential energy surfaces, transition state theory, and statistical theories of unimolecular decomposition. Depending on class interest, the course also includes special topics such as surface reactions and photochemistry.]

**CHEM 7870 Mathematical Methods of Physical Chemistry**

Fall. 4 credits. Prerequisites: one year of undergraduate physical chemistry, three semesters of calculus, and one year of college physics. Lec, T R. J. Park.

Provides the mathematical foundation for graduate courses in physical chemistry, such as quantum mechanics and statistical mechanics, as well as for research in experimental and theoretical physical chemistry. Topics include linear algebra, matrices, and the eigenvalue problem; functions of a complex variable and contour integration; methods of solution of relevant differential equations; special functions; partial differential equations; integral transforms. The program Mathematica is employed throughout for both analytical and numerical work. At the level of *Mathematical Methods for Scientists and Engineers* by McQuarrie, and *Mathematical Methods for Physicists* by Arfken and Weber.

**CHEM 7880 Macromolecular Crystallography (also BIOBM 7380)**

Fall. 3 credits. Prerequisite: permission of instructor. Lec, T R. S. E. Ealick.

Lectures cover the fundamentals of X-ray crystallography and focus on methods for determining the three-dimensional structures of macromolecules. Topics include crystallization, data collection, phasing methods, model building, refinement, structure validation, and structure interpretation.

**CHEM 7890-7900 Introduction to Nanoscale Materials Research**

7890, fall; 7900, spring. 3 credits each semester. Primarily for graduate students. Lec, T R. M. A. Hines.

A broad introduction to the scientific and technical challenges and techniques that underlie nanoscale materials research, including some of the skills necessary for a successful career in science or engineering (e.g., public speaking, research ethics). The course is composed of a rotating series of short modules presented in a variety of formats, including lectures, workshops, laboratory experiments and seminars. Students will receive training in both experimental and computational techniques. Enrolled students must complete all modules.

**CHEM 7910 Spectroscopy**

Spring. 4 credits. Prerequisite: CHEM 7930 or PHYS 4443 or equivalent. Lec, T R. J. H. Freed.

Magnetic Resonance Spectroscopy and Molecular Spectroscopy are offered alternate years. Molecular Spectroscopy (offered Spring 2010) includes principles of molecular rotational, vibrational, and electronic spectroscopy; interaction of molecules with radiation; Born-Oppenheimer approximation, diatomic molecules, polyatomic molecules, molecular symmetry groups. At the level of *Molecular Rotation Spectra* by Kroto. Magnetic Resonance Spectroscopy includes: quantum mechanics of electron and nuclear spins; Fourier Transform and Two Dimensional experiments; spin relaxation; multiple quantum coherence; imaging. At the level of *The Principles of Magnetic Resonance* by Slichter.

**[CHEM 7920 Molecular Collision Theory**

Spring. 4 credits. Lec, T R. Next offered 2010-2011. G. S. Ezra.

The concepts and methods of scattering theory are described with particular emphasis on applications to problems of chemical interest. At the level of Child's *Molecular Collision Theory* and Taylor's *Scattering Theory*.]

**CHEM 7930 Quantum Mechanics I**

Fall. 4 credits. Prerequisites: CHEM 3900, co-registration in AEP 3210, or CHEM 7870 or equivalents or permission of instructor. Lec, M W F. G. Chan.

Basic quantum mechanics at the level of Landau and Lifschitz: time-independent and time-dependent Schrodinger's equation, matrix, operators, and bracket formalisms, orbital and spin angular momentum, one-dimensional examples, tunnelling, hydrogen atom, many-electron wavefunctions and particle statistics, time-independent and time-dependent perturbation theory, variational principle, scattering theory.

**CHEM 7940 Quantum Mechanics II**

Spring. 4 credits. Prerequisites: CHEM 7930 or equivalent and CHEM 7870 or equivalent or co-registration in AEP 3220, or permission of instructor. Lec, M W F. G. S. Ezra.

Topics include the density matrix; evolution operator; path integral formulation of quantum mechanics; time-dependent phenomena; two-level system; time-dependent perturbation theory; Fermi's Golden rule; interaction of radiation with matter; second quantization, stimulated and spontaneous emission; correlation functions and response theory; electric and magnetic properties of molecules; scattering theory; theory of reaction rates; molecular spectroscopy.

**CHEM 7950 Statistical Thermodynamics**

Fall. 4 credits. Primarily for graduate students. Prerequisite: CHEM 3900 or equivalent. Pre or corequisite: CHEM 6810 or CHEM 7930 or equivalent. Lec T R. J. H. Freed.

**CHEM 7960 Statistical Mechanics**

Spring. 4 credits. Prerequisites: CHEM 7950, CHEM 7930 or CHEM 7110 or equivalent. Lec, T R. R. F. Loring.

Statistical mechanics of interacting atoms and molecules. Topics include liquid state theory, critical phenomena, computational statistical mechanics, and nonequilibrium statistical mechanics. Statistical thermodynamics at the level of the first 12 chapters of *Statistical Mechanics* by McQuarrie. Topics include ensembles and thermodynamics: microscopic states vs. macroscopic observables, maximum entropy, partition functions and calculation of thermodynamic properties; systems of noninteracting particles: Boltzmann distribution, ideal gases, ideal crystals, thermodynamics from spectroscopic data, chemical equilibrium, Bose-Einstein and Fermi-Dirac statistics; weak interacting systems: Dense gases and simple fluids.

**CHEM 7980 Electronic Structure Theory**

Spring. 4 credits. Prerequisites: CHEM 7930 or equivalent. Lec, T R. G. K. Chan.

Quantum mechanics of many-particle systems as found in quantum chemistry and condensed matter. The emphasis will be on methods and techniques, although examples will be drawn both from molecular systems and condensed matter models. Most systems will be considered at zero temperature.

CHINA AND ASIA-PACIFIC STUDIES

X. Xu, acting director (123 McGraw Hall, 255-4741), R. Bush, A. Carlson, J. Chen, Z. Chen, S. Cochran, S. Divo, E. Gunn, P. Katzenstein, F. Logevall, T. Lowi, A. Mertha. Affiliated faculty: M. Evangelista, J. Kirshner, J. V. Koschmann, T. Lyons, V. Nee, E. Sanders, M. Shin, E. Tagliacozzo, K. Taylor, X. Xu.

China and Asia-Pacific Studies (CAPS) offers a unique approach to the study of China's language, history, politics, society, and foreign relations by providing students with experience both on- and off-campus, including three years in Ithaca, one semester in Washington, D.C., and one semester in Beijing. web site: [www.einaudi.cornell.edu/caps](http://www.einaudi.cornell.edu/caps)

**The Major**

Students are required to take one of the introductory courses, CAPS 2827 (GOVT 2827) or CAPS 2570 (HIST 2571), during their first two years at Cornell, but they may declare the CAPS major before taking either of these or any other CAPS courses. The other required courses are:

- All of the following language courses: CHIN 1101-1102, 2201-2202, and 3301-3302 or CHIN 3306 (CAPS 3060) or CHIN 1109-1110 for heritage learners or the equivalent for FALCON students (all in Ithaca or Washington before senior year).
- Two 4000-level (or above) Chinese courses in Beijing and Ithaca.
- Two of the following lecture courses: CAPS 3857/GOVT 3857, CAPS 3140/HIST 3140, CAPS 3520/HIST 3520, and CAPS 4690/ECON 4690.
- All of the following seminars: CAPS 3000 and CAPS 5000 (during fall of junior year at Cornell in Washington), CAPS 3010 and CAPS 3020 (during fall of senior year at Peking University), and CAPS 4000 (during spring of senior year in Ithaca).

Students interested in the CAPS major should speak to the program director to arrange for a major advisor.

**Externships**

CAPS majors hold externships in government, business, law, the media, museums, research institutions, nongovernmental organizations, or other organizations during their semesters in Washington, D.C., and Beijing. They are encouraged to coordinate the two experiences.

**Honors**

To become a candidate for honors, a CAPS major must maintain a grade average of B+ and have approval for a senior essay proposal from a faculty advisor. During senior year, a CAPS honors student completes the research and writing of a senior essay by taking two tutorials, CAPS 4010 in Beijing and CAPS 4020 in Ithaca.

**Introductory Courses**

**CAPS 2403 China under Revolution and Reform (also GOVT 2403) @ (SBA-AS)**

Fall. 3 credits. A. Mertha.

For description, see GOVT 2403.

**CAPS 2570 China Encounters the World (also ASIAN 2257, HIST 2571) @ (HA-AS)**

Fall. 4 credits. X. Xu.  
For description, see HIST 2571.

**CAPS 2827 China and the World (also GOVT 2827) @ (CA-AS)**

Spring. 3 credits. A. Carlson.  
For description, see GOVT 2827.

**Courses in Ithaca**

**[CAPS 2281 Antiquity and Modernity in Contemporary China (also ASIAN 2281) @ # (CA-AS)]**

Spring. 3 credits. Next offered 2010-2011.  
R. McNeal.]

**[CAPS 2940 History of China in Modern Times (also HIST 2940, ASIAN 2294) @ (HA-AS)]**

4 credits. Next offered 2010-2011.  
S. Cochran.]

**CAPS 3060 Readings in Chinese History, Culture, Society (also CHIN 3306) @**

Spring. 4 credits. Z. Chen.  
For description, see CHIN 3306.

**CAPS 3140 History of American Foreign Policy, 1912 to Present (also AMST/ HIST 3140) (HA-AS)**

Spring. 4 credits. F. Logevall.  
For description, see HIST 3140.

**CAPS 3520 20th-Century Asian American Relations (also HIST 3520) @ (HA-AS)**

Spring. 4 credits. Next offered 2010-2011.  
J. Chen.]

**[CAPS 3857 Seminar on American Foreign Policy (also GOVT 3857) (SBA-AS)]**

4 credits. Next offered 2010-2011.  
P. Katzenstein.]

**CAPS 4020 Honors Thesis Tutorial II**

Spring. 4 credits. Prerequisite: CAPS 4010.  
Staff.

**CAPS 4030 Issues in China and Asia-Pacific Studies @ (CA-AS)**

Spring. 4 credits. X. Xin.

This course serves as the wrap-up seminar for CAPS students. It is designed for CAPS seniors to review their experience in conducting CAPS studies in Ithaca, Washington, D.C., and Beijing, to reflect the key challenges that they have encountered in such experiences and the solutions that they have come up with, and to enhance their basic abilities crucial for pursuing future studies and/or careers that are related to their CAPS experience after graduating from Cornell. Central to the course are the "course projects" that, with the assistance and support of instructor, the students are to take the initiative to develop by themselves.

**CAPS 4690 China's Economy Under Mao and Deng (also ECON 4690) @ (SBA-AS)**

Spring. 4 credits. T. Lyons.  
For description, see ECON 4690.

**CAPS 4827 Unifying While Integrating: China and the World (also GOVT 4827/6827) @ (HA-AS)**

Spring. 4 credits. A. Carlson.  
For description, see GOVT 4827.

**CAPS 4870 Asia Security (also GOVT 4877/6877) @ (SBA-AS)**

Spring. 4 credits. A. Carlson.  
For description, see GOVT 4877.

**[CAPS 4930 Problems in Modern Chinese History (also HIST 4930) @ (HA-AS)]**

Next offered 2010-2011.]

**CAPS 4999 CAPS Independent Study**

Fall and spring. 1 to 4 credits. Prerequisite: junior or senior standing. Permission of instructor required. Staff.

**Chinese Language Courses**

**CHIN 1101-1102 Beginning Mandarin I and II**

1101, fall; 1102, spring. 6 credits each semester.

For description, see CHIN 1101-1102 under "Asian Studies."

**CHIN 1109-1110 Beginning Chinese Reading and Writing for Students of Chinese Heritage**

1109, fall; 1110, spring. 6 credits each semester.

For description, see CHIN 1109-1110 under "Asian Studies."

**CHIN 2201-2202 Intermediate Mandarin I and II**

2201, fall; 2202, spring. 4 credits each semester.

For description, see CHIN 2201-2202 under "Asian Studies."

**CHIN 2209-2210 Intermediate Chinese Reading and Writing for Students of Chinese Heritage**

2209, fall; 2210, spring. 4 credits each semester.

For description, see CHIN 2009-2210 under "Asian Studies."

**CHIN 3301-3302 High Intermediate Mandarin I and II**

3301, fall; 3302, spring. 4 credits each semester.

For description, see CHIN 3301-3302 under "Asian Studies."

**CHIN 3309-3310 Business Chinese in Cultural Context**

3309, fall; 3310, spring. 4 credits each semester.

For description, see CHIN 3309-3310 under "Asian Studies."

**CHIN 4411-4412 Advanced Mandarin I and II**

4411, fall; 4412, spring. 4 credits each semester.

For description, see CHIN 4411-4412 under "Asian Studies."

**CHIN 4426 Special Topics: Chinese Historical Documents on Modern China (also HIST 4650/6650; CHIN 6626)**

Fall. 4 credits. Z. Chen.

For description, see HIST 4650.

**CHIN 4427-4428 High Advanced Mandarin I and II**

4427, fall; 4428, spring. 4 credits each semester.

For description, see CHIN 4427-4428 under "Asian Studies."

**CHIN 4431-4432 Directed Study**

4431, fall; 4432, spring. 4 credits each semester.

For description, see CHIN 4431-4432 under "Asian Studies."

**Courses in Washington, D.C.**

**CAPS 3000 Seminar on American Relations with China (also ASIAN 3305, HIST 3391) (HA-AS)**

Fall. 4 credits. Offered in Cornell in Washington program only. Staff.  
A historical review of the fragile and volatile U.S.-China relationship from the opening by Richard Nixon in the early 1970s until the present. Several individual sessions will be led by current or former executive branch or congressional officials, business people, journalists, representatives of nongovernmental organizations and others who have worked in China or have participated in the making of U.S. policy toward China.

**CAPS 4997 Research Seminar in American Studies (also HIST/AMST 4997)**

Fall. 8 credits. Offered in Cornell in Washington program only. S. Jackson.  
For description, see HIST 4997.

**CAPS 4998 Politics and Policy: Theory, Research, and Practice (also GOVT/ AMST/ALS 4998; PAM 4060)**

Fall. 8 credits. Offered in Cornell in Washington program only. S. Jackson.  
For description, see HIST 4997.

**CHIN 4445 Directed Study for CAPS Students in D.C.**

Fall. 1-4 credits, variable. Offered in Cornell in Washington program only. Staff.  
Prerequisite: permission of instructor. Intended for advanced language study.

**Courses in Beijing**

**CAPS 4001 China's Changing Politics, Economy, Society, and Culture @ (CA-AS)**

Fall. 4 credits. Offered at Peking University for CAPS majors only. X. Xu and H. Duan.  
Using resources specifically available in China, this course combines lectures, guest lectures, field trips, and faculty-directed research projects to help students achieve an in-depth understanding of China's changing politics, economy, society, and culture.

**CAPS 4002 Chinese Perspectives on China's Foreign Relations @ (SBA-AS)**

Fall. 4 credits. Offered at Peking University for CAPS majors only. Peking University staff.

This course, offered by faculty members of Peking University's School of International Studies, provides Chinese perspectives on contemporary China's international relations.

**CAPS 4010 Honors Thesis Tutorial I**

Fall. 4 credits. Offered at Peking University for CAPS majors only. See program director about making arrangements with appropriate advisors. Staff.

**CHIN 4451 Advanced Mandarin for CAPS Students in Beijing**

Fall. 4 credits. Equivalent to CHIN 4411 in Ithaca. Offered at Peking University for CAPS majors only. Staff.

For description, see CHIN 4411 under "Asian Studies."

**CHIN 4455 Directed Study for CAPS Students in Beijing**

Fall. 1-4 credits, variable. Prerequisite: permission of instructor. Intended for advanced language study. Offered at Peking University for CAPS majors only. Staff.

**CHIN 4457 High Advanced Mandarin**

Fall. 4 credits. Equivalent to CHIN 4427 in Ithaca. Offered at Peking University for CAPS majors only. Staff.

For description, see CHIN 4427 under "Asian Studies."

**CHINESE**

FALCON Program (Chinese)

See Department of Asian Studies.

**CLASSICS**

C. Brittain, chair, F. M. Ahl, K. Bowes, T. Brennan, K. Clinton, G. Fine, K. Fisher, M. Fontaine (director of undergraduate studies), D. Mankin, S. Manning, A. Nussbaum, H. Pelliccia, P. Pucci, H. R. Rawlings III, E. Rebillard (director of graduate studies), A. Ruppel, J. Rusten, B. Strauss.

The Department of Classics at Cornell is one of the oldest in the country. It offers both the traditional core training in the languages, literature, philosophy, art, and history of ancient Greece and Rome, and also newer approaches developed from the comparative study of Mediterranean civilizations, peace studies, and feminist and literary theory. The broad range of instruction includes courses offered by professors with appointments in the Departments of History, Philosophy, Comparative Literature, History of Art, Linguistics, and Near Eastern Studies, and in the Programs of Archaeology, Medieval Studies, and Religious Studies.

The department offers a wide variety of classical civilization courses in English translation on such subjects as Greek mythology, ancient mystery religions, early Christianity, and Greek and Roman society; ancient epic, lyric, tragedy, comedy, satire, novels, and love-poetry; Periclean Athens, Republican Rome, the Roman Empire, and Plato, Aristotle, and Hellenistic philosophy. These courses are designed to introduce aspects of classical antiquity to the students with very divergent primary interests. Courses in art, archaeology, and dendrochronology also have wide appeal. These courses make use of the university's large collections of ancient coins and of reproductions of sculptures, inscriptions, and other ancient objects. For example, since 1976 over 500 Cornell students have worked in the Aegean Dendrochronology Project's laboratory, measuring the annual rings on thousands of samples of wood and charcoal, and using the rings to date structures as old as 7000 BC. In the summers selected students have participated in collecting trips around the eastern end of the Mediterranean (see web site at [www.arts.cornell.edu/dendro](http://www.arts.cornell.edu/dendro)). Students who wish to gain first-hand archaeological experience may also join one of several summer Cornell-sponsored field projects in Greece and Turkey.

The study of language is a vital part of classics. Offerings range from 1000-level classes designed to further the understanding of English through the study of the Latin and Greek sources of much of its vocabulary, to courses in linguistics on the morphology and syntax of the ancient languages, comparative grammar, and Indo-European (the

reconstructed source of the family of languages that includes Greek, Latin, Sanskrit, and most modern European languages).

The core function of the department is the study of ancient Greek and Latin. Elementary Greek and Latin are taught in both two-semester courses and intensive summer courses. (For students whose Latin is a bit rusty, the department also offers a rapid, one-semester review class.) Students with a more advanced knowledge of Greek or Latin can choose from a wide selection of courses, from intermediate language classes at the 2000 level, which refresh and broaden knowledge of syntax and vocabulary, to graduate and faculty reading groups. All of these courses concentrate on exciting literary texts, whether the poems of Catullus and Virgil, or the dialogues of Plato and Xenophon, at the 2000 level, or, in the advanced reading groups, the latest papyrological discoveries, such as the "new" fragments of Empedocles' cosmic poem or the "new" epigrams of Posidippus.

The primary purpose of language instruction is to make possible the study at first hand of the extraordinary range of powerful and challenging ideas embodied in Greek and Latin texts. The department offers undergraduate and graduate seminars on literary, linguistic, historical, and philosophical topics, studied through the Greek and Latin works of authors from Homer (probably from the eighth century BCE) to Boethius (sixth century CE), and occasionally from later writers such as Dante, Petrarch, or Milton. The department strives to adapt its program to the needs of individual students from all disciplines.

**Majors in Classics**

The major in Classics offers four tracks, which are Greek, Latin, classics, and classical civilization. Only classes passed with a C- or better may be applied to the classics major.

**Classics**

The classics track requires: (1) six courses in Greek and Latin numbered 2101 or above; (2) either CLASS 2675/HIST 2650 or one term of CLASS 2681/HIST 2670—CLASS 2682/HIST 2671, and (3) two courses in other related subjects selected in consultation with the student's departmental advisor (see below). Classics majors are required to take a minimum of two 3000-level courses in one language and one 3000-level course in the other.

Students who are considering graduate study in classics are strongly advised to complete the classics major.

**Greek**

The Greek track requires: (1) GREEK 1105; (2) five courses in Greek numbered 2101 or above; (3) CLASS 2675/HIST 2650; and (4) two courses in other related subjects selected in consultation with the student's departmental advisor (see below). The courses in Greek must include at least three at the 3000 level.

**Latin**

The Latin track requires: (1) LATIN 1205 or 2201; (2) five courses in Latin numbered 2202 or above; (3) one term of CLASS 2681/HIST 2670—CLASS 2682/HIST 2671; and (4) two courses in other related subjects selected in consultation with the student's departmental advisor (see below). The courses in Latin must include at least three at the 3000 level.

**Classical Civilization**

The classical civilization track requires: (1) either (a) two 2000-level courses in either ancient Greek or Latin, or (b) one course at the 2000 level in ancient Greek and Latin; (2) either (a): CLASS 2601 or 2603 and one term of CLASS 2681/HIST 2670—CLASS 2682/HIST 2671, or (b): CLASS 2612 and CLASS 2675/HIST 2650; (3) one course at the 2000 level in ancient Greek or Roman material culture; and (4) six additional courses in classical civilization, classical archaeology, ancient history, ancient philosophy, ancient Greek or Latin (at 2000 level or above), or related subjects (this last may number up to two, selected in consultation with the student's departmental advisor).

**Related Subjects**

Classics is an interdisciplinary field concerned with the study of Mediterranean civilizations from the 15th century BCE to the sixth century CE. Subjects in the field include Greek and Latin language, literature, and linguistics; ancient philosophy, history, archaeology, and art history; papyrology, epigraphy, and numismatics. In addition to the required courses in language and literature, the majors include a requirement for related courses intended to give breadth and exposure to the other disciplines within the field and to enrich the student's study of classical languages and literature. Since the influence of the Greek and Roman world extended far beyond antiquity, a related course may focus on some aspect of the classical tradition in a later period. Students select related courses in consultation with their departmental advisors or the director of undergraduate studies.

**Honors**

Candidates for the degree of bachelor of arts with honors in classics, Greek, Latin, or classical civilization must fulfill the requirements of the appropriate major and complete the two-semester honors course, CLASS 4721–4722. (Credit for the honors course may be included in the credits required for the major.) Candidates for honors must have a cumulative average grade of 3.0 and an average of 3.5 in their major. Students choose an honors advisor by the end of their sixth semester, in consultation with the departmental honors committee or the DUS. By the second week of their seventh semester, they submit an outline of their proposed research to their advisor and the committee. The thesis is written in the second semester of the course, under the supervision of the student's honors advisor. The level of honors is determined by the committee, in consultation with students' advisors. Copies of successful honors theses are filed with the department. Further details about this program are provided in the brochure *Guidelines for Honors in Classics*, available in the department office, 120 Goldwin Smith Hall, or on the department web page: [www.arts.cornell.edu/classics/honors.asp](http://www.arts.cornell.edu/classics/honors.asp).

**Independent Study**

Independent study at the 3000 level may be undertaken by undergraduates upon completion of one semester of work at the 3000 level in the relevant field and only with the permission of the director of undergraduate studies.

## Study Abroad

Cornell is associated with four programs that provide opportunities for summer, semester, or yearlong study abroad in Greece and Italy. The American School of Classical Studies at Athens offers a summer program for graduate students and qualified undergraduates; College Year in Athens offers semester-long courses (consult Cornell Abroad for details). The Intercollegiate Center for Classical Studies in Rome provides semester-long courses in Latin, Greek, ancient history, art, archaeology, and Italian; the American Academy in Rome offers both full-year and summer programs for qualified graduate students. The Department of Classics awards several travel grants each year for graduate students from the Townsend Memorial Fund; undergraduates are eligible for the Caplan Travel Fellowships (see "Caplan Fellowships," below). Detailed information on these programs is available in the department office, 120 Goldwin Smith Hall.

## Summer Support for Language Study

The Department of Classics has at its disposal resources to assist students who wish to enroll in intensive Latin or Greek in the Cornell summer session. These courses are designed to enable students to enter second-year Latin or Greek the following fall. Preference is given to undergraduate majors in classics and other students needing Latin or Greek for completion of their majors or graduate programs; dyslexic students are accorded additional preference. Two different kinds of support are available: (1) The Kanders-Townsend Prize Fellowship provides a stipend to cover up to \$4,600 in living expenses and full tuition for either GREEK 1103 or LATIN 1203, and is open only to freshman or sophomore classics majors (or potential classics majors) who have already begun one classical language and wish to start the other in the summer. (2) Classics department tuition support is open to Cornell undergraduate and graduate students and provides some level of tuition support, up to the full amount; no stipend for living expenses is offered. Applications are due to the chair of the Department of Classics by March 31. See also "Caplan Fellowships," below.

## Placement in Greek and Latin

Placement of first-year undergraduates in Greek and Latin courses is determined by examinations given by the Department of Classics during orientation week. For details concerning these examinations, contact the director of undergraduate studies.

## Satisfying the College Language Requirements with Greek or Latin

Ancient Greek: Option 1 is satisfied by taking GREEK 2101 or above. Option 2 is satisfied by taking either (a) GREEK 1101, 1102, and 1105 or (b) GREEK 1103 and 1105. (GREEK 1103 counts as two courses. Although credits for 1103 and 1105 add up to only 9, this sequence does satisfy Option 2 of the college's language requirement.)

Modern Greek: Option 1 is satisfied by taking GREEK 2144. Option 2 is satisfied by taking GREEK 1141, 1142 and 1143.

Latin: Option 1 is satisfied by taking LATIN 2201 or above. Option 2 is satisfied by taking either (a) LATIN 1201, 1202, and 1205 or (b) LATIN 1203 and 1205. (LATIN 1203 counts as two courses. Although credits for 1203 and

1205 add up to only 9, this sequence does satisfy Option 2 of the college's language requirement.) The sequence LATIN 1204-1205 does not satisfy Option 2. Students can place into LATIN 2201 with an A- or better in LATIN 1202, 1203 or 1204. Upon completing 2201, they satisfy Option 1. LATIN 1204 overlaps with LATIN 1202 therefore cannot be taken (or counted toward the degree) after completing LATIN 1202 or 1203.

## First-Year Writing Seminars

The department offers first-year writing seminars on a wide range of classical and medieval topics. Consult John S. Knight Writing Seminar Program brochures for times, instructors, and descriptions.

## Caplan Fellowships

The Harry Caplan Travel Fellowships are awarded annually to one or two outstanding juniors by the College of Arts and Sciences for summer travel or projects in Europe or the Near East. Interested juniors should consult the director of undergraduate studies.

## Classical Civilization

### CLASS 1692 Bioscientific Terminology (also BIOMI 1720) # (HA-AS)

Summer and winter. 3 credits. D. Bowman and H. Roisman.

A study of the Greek and Latin word elements that combine to form most of the specialized terms in the biological sciences. The student who learns the meanings of those elements and the rules of word formation can usually recognize the basic meaning of any unfamiliar word in that field. This skill is especially valuable for pre-law, pre-medical, pre-dental, pre-veterinary students and for those in other health and legal fields, as well as for students who would like to broaden their general vocabulary. This course would be excellent preparation for students prior to taking standardized test: e.g., SAT, GRE, MCAT, TOEFL, LSAT, etc.

### CLASS 1699 English Words: Histories and Mysteries (also LING 1109) # (HA-AS)

Spring. 3 credits. Staff.

For description, see LING 1109.

### CLASS 2601 The Greek Experience # (CA-AS)

Spring. 3 credits. Limited to 50 students. F. Ahl.

Introduction to the literature and thought of ancient Greece. Topics include epic and lyric poetry, tragedy and comedy, and historical, political, philosophical, and scientific writings. Some attention is also given to the daily life of ordinary citizens, supplemented by slides of ancient art and architecture.

### CLASS 2603 Initiation to Greek Culture # (LA-AS)

Fall. 4 credits. Limited to 18 students.

Intended especially for freshmen. Students must apply in writing to chair, Department of Classics, 120 Goldwin Smith Hall. P. Pucci.

Knowledge of Greek or Latin is not necessary, since all texts are in translation. What is necessary is the willingness to participate in three one-hour seminars each week and also a supplementary one- or two-hour session, during which the class participates in workshops with specially invited guests. This course covers a wide range of Greek literary

and philosophical works as well as modern critical and philosophical writings on the Greeks. The focus throughout is on the status of language, the many forms of discourse that appear in the literature, and the attempts the Greeks themselves made to overcome the perceived inadequacies and difficulties inherent in language as the medium of poetry and philosophy. The course inquires into the development of philosophy in the context of a culture infused with traditional, mythological accounts of the cosmos. It asks how poetic forms such as tragedy responded to and made an accommodation with philosophical discourse while creating an intense emotional effect on the audience; how the first historians, using literary and philosophical discourse, created space for their own inquiry; and discusses how these issues persist and are formulated in our own thinking.

### CLASS 2604 Greek Mythology # (LA-AS)

Summer and fall. 3 credits. Limited to 50 students in summer; 200 in fall. D. Mankin.

Survey of the Greek myths, with emphasis on the content and significance of the myths in Mediterranean society, including the place of myth in Greek life and consciousness; the factors and influences involved in the creation of myths; and the use of myths for our understanding of Greek literature, religion, and moral and political concepts.

### CLASS 2605 Theater, Sport, and Spectacle: Performance and Competition in Greece and Rome (also THETR 2605) # (CA-AS)

Fall. 3 credits. J. Rusten.

A study not of play-texts or ancient history per se, but the social history of the richly documented tradition of competitive artistic, athletic, and spectacular performances sponsored by cities, wealthy individuals, and kings/emperors in antiquity, with special attention to the ongoing connections and cross-influences between music/theater, athletics, and human/animal combats. We will take our comparative material from the fifth century BCE to the late Roman empire. Topics include organizational frameworks, funding sources, associations of performers and their ideologies and rivalries, regulation and hierarchies of audiences, public claque, the adaptation of performance to political events, influence on art, and institutional and intellectual opposition. Evidence will include ancient treatises, inscriptions, mosaics, wall-paintings, and terracottas; all source readings available in English.

### CLASS 2612 The Roman Experience # (CA-AS)

Spring. 3 credits. D. Mankin.

Introduction to the civilization of the Romans as expressed in their literature, religion, and social and political institutions.

### CLASS 2613 Intro to New Testament and Other Early Christian Literature (also JWST/NES/RELST 2629) @ # (HA-AS)

Spring. 3 credits (see CLASS 3629 for additional 1 credit). K. Haines-Eitzen.

For description, see NES 2629.

### [CLASS 2632 Paranoia and Conspiracy (also COML 2632) # (LA-AS)

Spring. 3 credits. Next offered 2010-2011. M. Fontaine.

This course examines paranoia, fearmongering, and conspiracies imagined in ancient Greece and Rome. Readings cover a range of literary and philosophical texts.]

**[CLASS 2651 The Comic Theater (also COML/THETR 2230) # (LA-AS)**

Spring. 3 credits. Next offered 2010–2011. J. Rusten.

Comic drama: Greece and Rome, Italian renaissance, Elizabethan England, Molière's France, English Restoration, and modern film. Themes: trickster, parody, farce, and caricature. All readings in English.]

**[CLASS 2661 Ancient Philosophy (also PHIL 2200) # (KCM-AS)**

Fall. 4 credits. T. Brennan.

For description, see PHIL 2200.

**[CLASS 2675 Ancient Greece from Homer to Alexander the Great (also HIST 2650) # (HA-AS)**

Fall. 4 credits. Open to first-year students. Next offered 2010–2011. B. Strauss.

For description, see HIST 2650.]

**[CLASS 2676 Periclean Athens (also HIST 2580) # (HA-AS)**

Fall. 4 credits. H. Rawlings III.

The first five weeks will provide a synoptic view of Athens' historical and cultural achievement in the middle of the fifth century BC—the traditional pinnacle of "The Glory that was Greece." Readings will be taken from Greek historians, philosophers, poets and documentary texts. The next seven to eight weeks will follow the course of the Peloponnesian War to its end; readings from Thucydides will be interwoven with contemporaneous texts composed by the dramatists (Sophocles, Euripides, and Aristophanes) and the sophists (supplemented with readings from Plato). The remaining classes will consider the fate of Socrates. The basic aim of the course is to approach an understanding of how and why a vital and creative society came unglued. There will be weekly discussion sections and at least two debates.

**[CLASS 2680 War and Peace in Greece and Rome (also HIST 2560) # (HA-AS)**

Spring. 4 credits. Next offered 2010–2011. B. Strauss.

For description, see HIST 2560.]

**[CLASS 2681 History of Rome I (also HIST 2670) # (HA-AS)**

Fall. 4 credits. Open to first-year students. Next offered 2010–2011. E. Rebillard.

A general introduction to Roman history from the foundation of Rome in the middle of the eighth century BC to the end of the Republic (31 BC).]

**[CLASS 2682 History of Rome II (also HIST 2671) # (HA-AS)**

Summer. 4 credits. Open to first-year students. L. Van Abbema.

This course is the second part of a two-term survey of Roman history, examines the history of the Roman Empire from the beginnings of the Augustan Principate (31 BC) to the fall of the Western Empire in the fifth century (AD 476). We will consider the creation and development of the imperial regime, explore the various types of challenges (military, cultural, and religious) to the hegemony of the Roman state, and try to understand the transformations of Roman society and culture down to the middle of the fifth century AD.

**[CLASS 2686 Small Wars in Greece and Rome (also HIST 2061) # (HA-AS)**

Fall. 3 credits. Next offered 2010–2011. B. Strauss.]

**[CLASS 3625 Christianization of the Roman World (also HIST 3625, NES 3633, RELST 3635) # @ (HA-AS)**

Fall. 4 credits. E. Rebillard.

In the fourth century CE the emperors decided to favor Christianity and shortly thereafter to forbid non-Christian activity. The "end of paganism," however, did not occur all at once if it ever did. The study of the Christianization of the Roman world is concerned with both the impact of Christian belief and practice on the late antique society and the resistance and/or persistence of the old beliefs and practices. This seminar will focus on the approaches to the problem of Christianization and on its documentation. Through readings and discussion, we will chart the transformations of the Roman world from 300 to 600 CE and try to get a better understanding of what remains one of the most fascinating historical problems of the ancient world.

**[CLASS 3629 Intro to New Testament and Other Early Christian Literature (also JWST/NES/RELST 3629)**

Spring. 1 credits K. Haines-Eitzen.

Extra credit option for students who have had one year of Greek, to read portions of the New Testament and other Christian writings in Greek. For description, see NES 3629.

**[CLASS 3630 Senior Seminar # (LA-AS)**

Spring. 4 credits. H. Pelliccia.

Topic: What is a classic? What is Classics? In this course we will study the history of the idea of the classic author or text from fourth century Greece forward to the late-20th-century "canon wars."

**[CLASS 3642 Greeks, Romans, and Victorians (also COML 3820) # (LA-AS)**

Spring. 4 credits. Next offered 2011–2012. F. Ahl.

Explores how 19th-century (and especially Victorian English and Irish) poets, dramatists, and to a lesser extent, novelists, present Greco-Roman antiquity.]

**[CLASS 3644 Sages and Saints/Ancient World (also HIST 3644, RELST 3644) # (HA-AS)**

Spring. 4 credits. Next offered 2011–2012. E. Rebillard.

This seminar considers the continuities and changes in the representations of the holy man, from the sages of classical antiquity to the saints of early Christianity.]

**[CLASS 3645 The Tragic Theater (also COML 3440, THETR 3450) # (LA-AS)**

Spring. 4 credits. Limited to 40 students. F. Ahl.

Tragedy and its audiences from ancient Greece to modern theater and film. Topics: origins of theatrical conventions; Shakespeare and Seneca; tragedy in modern theater and film. Works studied include: Aeschylus' *Agamemnon*; Sophocles' *Oedipus Tyrannus*, *Philoctetes*; Euripides' *Alcestis*, *Helen*, *Iphigenia in Aulis*, *Orestes*; Seneca's *Thyestes*, *Trojan Women*; Shakespeare's *Julius Caesar*, *Titus Andronicus*, *Othello*; Strindberg's *The Father*; Dürrenmatt's *The Visit*; Bergman's *Seventh Seal*; Cacoyannis' *Iphigenia*.

**[CLASS 3661 Hellenistic Philosophy (also PHIL 3204) # (KCM-AS)**

Spring. 4 credits. T. Brennan.

An examination of the doctrines of the Greek philosophers working in the three centuries after the death of Aristotle. Emphasis on Stoicism, Epicureanism, and Skepticism.

**[CLASS 3669 Plato (also PHIL 3202) # (KCM-AS)**

Fall. 4 credits. Prerequisite: at least one philosophy course at 2000 level or above; or permission of instructor. G. Fine. For description, see PHIL 3202.

**[CLASS 3676 Greek and Roman Historiography # (HA-AS)**

Spring. 4 credits. J. Rusten.

Rather than a survey of the history of ancient Greek and Rome, a study of the major ancient authors (from Herodotus through Ammianus Marcellinus) who invented and developed the genres of historical writing. We will examine their philosophical and educational aims, concepts of historical causation, demarcation of subject matter, as well as conventions and sub-genres of historiography in antiquity, and critics of historical styles and approaches. All readings in English.

**[CLASS 3686 Independent Study in Classical Civilization, Undergraduate Level**

Fall and spring. 1–4 credits. Prerequisite: permission of director of undergraduate studies, in extraordinary circumstances only.

**[CLASS 4662 Topics in Ancient Philosophy (also PHIL 4200) # (KCM-AS)**

Fall. 4 credits. G. Fine.

For description, see PHIL 4200.

**[CLASS 4681 Fourth Century and Early History of Greece (also HIST 4411) # (HA-AS)**

Fall. 4 credits. Undergrads and grads will meet for two hours; grad students must stay for one additional hour. Next offered 2011–2012. B. Strauss.]

**[CLASS 4682 Topics in Ancient Greek History (also CLASS 7684, HIST 4320/6330)**

Spring. 1–4 credits, variable. Limited to 15 students. Next offered 2011–2012. Staff.]

**[CLASS 4683 Classics and Early America (also HIST 4861, GOVT 4862) # (HA-AS)**

Fall. 4 credits. Next offered 2010–2011. H. Rawlings III.

This seminar focuses on the Founders' use of Greek and Roman models in establishing the American Republic.]

**[CLASS 7173 Ancient Philosophy (also PHIL 6200)**

Fall. 4 credits. G. Fine.

For description, see PHIL 6200.

**[CLASS 7345 Graduate TA Training**

Fall and spring. 1 credit. Staff. Pedagogical instruction and course coordination. Requirement for all graduate student teachers of LATIN 1201–1202 and first-year writing seminars.

**[CLASS 7459 Seminar in Vedic Philology (also ASIAN/LING 6659)**

Spring. 4 credits. Prerequisite: two years of Sanskrit or permission of instructor. M. Weiss.

For description, see LING 6659.

**[CLASS 7681 Fourth Century and Early Hellenistic History of Greece (also HIST 6411)**

Fall. 4 credits. B. Strauss.

For description, see HIST 6411.

**CLASS 7682 Topics in Ancient History (also HIST 6300, NES/JWST 6642)**

Spring. 4 credits. E. Rebillard.

Topic: Sharing the City: Pagans, Jews and Christians in Late Antiquity.

**CLASS 7960 Independent Study in Classical Studies**

Fall and spring. Up to 4 credits.

**CLASS 9900 Doctoral Dissertation Research**

Fall and spring. 0 credits. Letter grades only. Staff.

**Greek****GREEK 1101 Elementary Ancient Greek I**

Fall. 4 credits. H. Pelliccia.

Introduction to Attic Greek. Designed to enable the student to read the ancient authors as soon as possible.

**GREEK 1102 Elementary Ancient Greek II**

Spring. 4 credits. Prerequisite: GREEK 1101 or equivalent. A. Ruppel.

Continuation of GREEK 1101, prepares students for GREEK 1105.

**GREEK 1103 Intensive Greek**

Summer. 6 credits. Staff.

Intensive introduction combining the fundamentals of ancient Greek grammar with readings from a variety of classical authors in the original Greek. Prepares students in a single semester for GREEK 1105.

**GREEK 1105 Intermediate Ancient Greek I #**

Fall. 3 credits. Prerequisites: GREEK 1102, 1103, or placement by departmental exam. P. Pucci.

Introduces students to reading Greek literary texts (Xenophon's *Anabasis*) and a dialogue of Plato. Covers complex syntax and reviews the grammar presented in GREEK 1102 or 1103.

**GREEK 1141 Elementary Modern Greek I (also NES 1340)**

Fall. 4 Credits. K. Yiavis.

The course is intended for students with no experience in modern Greek. The goal is to provide a thorough grounding in Greek language with an emphasis on communication. Small class size will provide intensive practice in speaking, writing and listening-comprehension. Elementary Modern Greek II will be offered in the spring semester.

**GREEK 1142 Elementary Modern Greek II (also NES 1341)**

Spring. 4 credits. Prerequisite: NES 1340/GREEK 1141 or placement by departmental exam. K. Yiavis.

Intended for students with no experience in Greek. The goal is to provide a thorough grounding in Greek language with an emphasis on communication. Small class size provides intensive practice in speaking, writing, and listening/comprehension.

**GREEK 1143 Intermediate Modern Greek I (also NES 1342)**

Fall. 4 credits. Prerequisite: GREEK 1142/NES 1341 or placement by departmental exam. K. Yiavis.

Emphasizes complex grammatical and syntactical phenomena of the Modern Greek language through oral communication and texts. Students look into idiomatic nuances and special features of the language. Oral

speech and writing are more crucial at this level.

**[GREEK 2101 Greek Prose # (LA-AS)**

Fall. 3 credits. *Satisfies Option 1.*

Prerequisite: GREEK 1105. Next offered 2010-2011. M. Fontaine.

Selected readings from Herodotus' *Histories*.]

**[GREEK 2103 Homer # (LA-AS)**

Spring. 3 credits. *Satisfies Option 1.*

Prerequisite: GREEK 1105. Next offered 2010-2011. Staff.

Readings in the Homeric epic.]

**GREEK 2104 Euripides: Alcestis # (LA-AS)**

Spring. 3 credits. *Satisfies Option 1.*

Prerequisite: GREEK 1105. P. Pucci.

With the *Alcestis* we encounter Greek tragedy in one of its Euripidean versions: serious events and comic happenings interlace and weave a most mysterious analysis of human responses to death, to marriage relationship, to myth. The text has no long choruses and therefore is also easier for students with a short experience of Greek. This is a wonderful introduction to Greek Tragedy.

**GREEK 2144 Intermediate Modern Greek II (also NES 2324)**

Spring. 4 credits. *Satisfies Option 1.*

Prerequisite: GREEK 1143/NES 1342 or placement by departmental exam.

K. Yiavis.

This course emphasizes complex grammatical and syntactical phenomena of the Modern Greek language through oral communication and texts. Students look into idiomatic nuances and special features of the language. Oral speech and writing are more crucial at this level.

**[GREEK 3101 Greek Epic # (LA-AS)**

Spring. 4 credits. *Satisfies Option 1.*

Prerequisite: one 2000-level Greek course. Next offered 2011-2012. P. Pucci.

Undergraduate Seminar. This course focuses on the epic language, its specificity, its poetic means (epithets, formulae, similes, etc.), its function in constructing and interpreting the world, and its aesthetic, emotional effects.]

**[GREEK 3102 Greek Historiography and Oratory # (HA-AS)**

Fall. 4 credits. *Satisfies Option 1.*

Prerequisite: one 2000-level Greek course. Next offered 2010-2011. Staff.

Undergraduate seminar. History and myth in Herodotus and Plato. Readings in Greek from Herodotus' *Histories* and Plato's *Phaedrus*, *Critias*, and *Timaeus*.]

**GREEK 3103 Greek Philosophy and Rhetoric (LA-AS)**

Spring. 4 credits. *Satisfies Option 1.*

Prerequisite: one 2000-level Greek course. H. Rawlings III.

Undergraduate seminar. Topic: Greek rhetoric. We will read speeches by several Greek orators.

**GREEK 3104 Seminar: Greek Drama (LA-AS)**

Fall. 4 credits. *Satisfies Option 1.*

Prerequisite: one 2000-level Greek course. H. Pelliccia.

**GREEK 3185 Independent Study in Greek, Undergraduate Level**

Fall and spring. Up to 4 credits.

Prerequisite: permission of DUS in extraordinary circumstances only. Staff.

**GREEK 4101 Advanced Readings in Greek Literature # (LA-AS)**

Fall. 4 credits. Prerequisite: one semester

of 3000-level Greek. H. Rawlings III.

In reading the texts, we will analyze the historiographical methods employed by Herodotus and Thucydides: their use of sources, their epistemologies, their means of representing events, their positions in the intellectual context of their times.

**[GREEK 4102 Advanced Readings in Greek Literature # (LA-AS)**

Spring. 4 credits. Prerequisite: one semester

of 3000-level Greek. Next offered 2010-2011. Staff.]

**GREEK 4116 Advanced Greek Composition (LA-AS)**

Spring. 4 credits. Prerequisite: GREEK 3116 or equivalent. J. Rusten.

**GREEK 7171 Graduate Seminar in Greek**

Fall. 4 credits. J. Rusten.

Topic: The fragments of Athenian comedy, 486-280 BCE. Readings of the substantial remains of comedies apart from the 11 preserved plays of Aristophanes and the three of Menander. Particular attention to the evidence for the earliest comedy and its relation to politics, the plays of Aristophanes's rivals Cratinus (*Phlutuses*, *Dionysalexander*, *The Wine-flask*) and Eupolis (*Demes*, *Baptai*, *Toadies*, *Maricas*), the 4th-century comedy of Antiphanes and Timocrates, the more than 100 paintings from Southern Italy illustrating scenes of 4th-century comedy, Menander's partially preserved plays (*She Gets a Haircut*, *The Shield*, *the Sicyonian*), and the plays that lie behind the Latin adaptations of the third and second centuries BCE.

**GREEK 7172 Graduate Seminar in Greek**

Spring. 4 credits. P. Pucci.

Topic: Aristophanes.

**GREEK 7910 Independent Study in Greek**

Fall and spring. 1-4 credits.

**Latin****LATIN 1201 Elementary Latin I**

Fall. 4 credits. Staff.

Introductory course designed to prepare students to start reading Latin prose at the end of a year. The class moves swiftly and includes extensive memorization of vocabulary and paradigms; study of Latin syntax; and written homework, quizzes, tests, and oral drills.

**LATIN 1202 Elementary Latin II**

Spring. 4 credits. *Students may not receive credit for both LATIN 1202 and LATIN 1204.*

Students should be ready for LATIN 1205 by the end of the course, but may take LATIN 2201 if they pass with A- or better. Prerequisite: 1201 or equivalent. Staff.

Continuation of LATIN 1201, using readings from various authors; prepares students for LATIN 1205.

**LATIN 1203 Intensive Latin**

Summer. 6 credits. Staff.

Intensive introduction that quickly instills the essentials of Latin grammar before progressing to readings in the original Latin. Prepares students in a single term for LATIN 1205.

**LATIN 1204 Latin in Review**

Fall. 4 credits. *Students may not receive credit for both LATIN 1202 and LATIN 1204.*

Prerequisite: placement by departmental examination. Staff.

Designed to accommodate students who have had some Latin, but are insufficiently prepared to take 1202. It begins with review of some material covered in 1201 and then continues with second-term Latin material (1202). The class moves swiftly and includes extensive memorization of vocabulary and paradigms; study of Latin syntax; and written homework, quizzes, tests, and oral drills. Students should be ready for LATIN 1205 by the end of the course, but may take LATIN 2201 if they pass with A- or better.

#### LATIN 1205 Intermediate Latin I

Fall and spring. 3 credits. Prerequisites: LATIN 1202, 1203, 1204 or placement by departmental exam. Fall, D. Mankin; spring, A. Ruppel.

Introduces students to reading a literary Latin text (Ovid, *Ars Amatoria I*). Covers complex syntax and reviews the grammar presented in LATIN 1202, 1203, or 1204.

#### LATIN 2201 Latin Prose # (LA-AS)

Fall. 3 credits. *Satisfies Option 1*. Prerequisite: LATIN 1205 or grade of A- or above in LATIN 1202, 1203, or 1204 or placement by departmental exam. E. Rebillard.

Reading of Nepos' *Life of Atticus*, a wealthy and cultured Roman who himself stayed out of politics, but was the confidant of the Republic's greatest politician, Cicero; readings also of Nepos' *Life of Cato the Elder* and selections from Cicero's *Letters to Atticus*.

#### [LATIN 2203 Catullus # (LA-AS)]

Fall. 3 credits. *Satisfies Option 1*. Prerequisite: LATIN 1205. Next offered 2011–2012. Staff.

Aims to present the poems of Catullus within their cultural and historical context. The poems are read and translated, and their significance both individually and as products of Late Roman Republican culture discussed in class. Selections from the works of Catullus's contemporaries are assigned in translation.]

#### LATIN 2204 Roman Drama # (LA-AS)

Spring. 3 credits. *Satisfies Option 1*. Prerequisite: LATIN 1205. D. Mankin. Topic: TBA.

#### [LATIN 3201 Roman Epic # (LA-AS)]

Spring. 3 credits. *Satisfies Option 1*. Prerequisite: 2000-level Latin. Next offered 2010–2011. Staff.

Undergraduate seminar.]

#### [LATIN 3202 Roman Historiography # (LA-AS)]

Spring. 4 credits. *Satisfies Option 1*. Prerequisite: one term of 2000-level Latin or permission of instructor. Next offered 2011–2012. Staff.

Undergraduate seminar. Topic: TBA.]

#### LATIN 3203 Roman Poetry (LA-AS)

Fall. 3 credits. *Satisfies Option 1*. Prerequisite: one 2000-level Latin course. M. Fontaine.

Undergraduate seminar. Topic: Neoteric poetry.

#### LATIN 3204 Roman Prose # (LA-AS)

Spring. 3 credits. *Satisfies Option 1*. Prerequisite: one 2000-level Latin course. H. Pelliccia.

Undergraduate seminar.

#### [LATIN 3215 Imperial Latin

Spring. 4 credits. *Satisfies Option 1*. Prerequisite: one semester of 2000-level Latin. Next offered 2011–2012. Staff. Undergraduate Latin seminar. Topic: TBA.]

#### [LATIN 3217 Latin Prose Composition # (LA-AS)]

Fall. 4 credits. Prerequisite: one semester of 2000-level Latin. Next offered 2010–2011. Staff.]

#### LATIN 3286 Independent Study in Latin, Undergraduate Level

Fall and spring. Variable to 4 credits. Prerequisite: permission of DUS in extraordinary circumstances only. Staff.

#### LATIN 4201 Advanced Readings in Latin Literature # (LA-AS)

Fall. 4 credits. Prerequisite: one semester of 3000-level Latin. M. Fontaine. Topic: Ovid's *Metamorphoses*.

#### LATIN 4202 Advanced Readings in Latin Literature # (LA-AS)

Spring. 4 credits. Prerequisite: one semester of 3000-level Latin. C. Brittain. Topic: Epistolography.

#### [LATIN 4203 Survey of Latin Literature # (LA-AS)]

Fall. 4 credits. Seniors must obtain permission from the instructor to enroll in the class. Next offered 2010–2011.]

#### [LATIN 4213 Survey of Medieval Latin Literature (also LATIN 7213, MEDVL 4103/6103) # (LA-AS)]

Fall. 3 credits. Next offered 2010–2011. C. Ruff.

For description, see MEDVL 4103.]

#### [LATIN 4216 Advanced Latin Prose Composition # (LA-AS)]

Fall. 4 credits. Prerequisite: graduate standing; undergraduates who have completed LATIN 3217 and have permission of instructor. Next offered 2010–2011. Staff.]

#### [LATIN 4223/7223 Topics in Medieval Latin Literature (also MEDVL 4201/6201)]

Spring. 4 credits. Next offered 2010–2011.]

#### [LATIN 7213 Survey of Medieval Latin Literature (also MEDVL 4103/6103, LATIN 4213)]

Fall. 3 credits. Next offered 2011–2012. C. Ruff.

For description, see MEDVL 4103.]

#### [LATIN 7222 Latin Paleography (also MEDVL 6102)]

Spring. 4 credits. Next offered 2011–2012.]

#### LATIN 7262 Latin Philosophical Texts (also PHIL 4002, RELST 6020) # (KCM-AS)

Fall and spring. 1–4 credits. Prerequisites: knowledge of Latin and permission of instructor. C. Brittain and S. MacDonald. For description, see PHIL 6020.

#### LATIN 7271 Graduate Seminar in Latin (also PHIL 6201)

Fall. 4 credits. C. Brittain. Topic: Cicero's Philosophical Text.

#### LATIN 7272 Graduate Seminar in Latin

Spring. 4 credits. M. Fontaine. Topic: Lucretius.

#### LATIN 7920 Independent Study in Latin

Fall and spring. 1–4 credits. Staff.

### Classical Art and Archaeology

#### CLASS 2700 Introduction to Art History: The Classical World (also ARTH 2200) # (HA-AS)

Spring. 4 credits. Each student must enroll in a sec. K. Fisher.

For description, see ARTH 2200.

#### [CLASS 2727 Art and Archaeology in the Ancient Mediterranean World (also ARKEO 2728, ARTH 2227) # (HA-AS)]

Fall. 4 credits. Next offered 2011–2012. S. Manning.

This course introduces students to a selection of the major themes and issues in the archaeology and art of the ancient Mediterranean region from the later prehistoric period (the Bronze Age) through to the Roman era.]

#### [CLASS 2743 Archaeology/Roman Private Life (also ARKEO 2743, ARTH 2221) # (CA-AS)]

Spring. 3 credits. Next offered 2011–2012. Staff.

Introduction to Roman archaeology through everyday lives of Romans.]

#### [CLASS 2744 Archaeology of Greek Private Life (also ARKEO/HIST 2744, ARTH 2222) # (CA-AS)]

Spring. 3 credits. Next offered 2010–2011. K. Bowes.

This course offers an overview of the archaeology of the ancient Greek world, focusing on the everyday lives.]

#### [CLASS 3727 Iconography of Greek Myth (also ARTH 3230) # (HA-AS)]

Spring. 4 credits. Next offered 2010–2011. A. Alexandridis.

For description, see ARTH 3230.]

#### [CLASS 3730 Archaeology, Ethics, and Nationalism (also ARKEO 3730, HIST 3630) # (CA-AS)]

Spring. 3 credits. Next offered 2010–2011. K. Bowes.

This course explores the historical and ethical ramifications of doing archaeology.]

#### [CLASS 3731 Archaeology/Ancient Mediterranean Religion (also ARKEO 3731) # (HA-AS)]

Fall. 4 credits. Next offered 2011–2012. K. Bowes.

This course will survey the material remains of religious practices in the ancient Mediterranean from the Greek Dark Ages to early Christianity.]

#### [CLASS 3733 Bronze Age Palaces and Societies (also ARKEO 3733)]

Fall. 4 credits. Prerequisite: one 2000-level or above classical archaeology or archaeology course. K. Fisher.

This course will examine the origins and development of the Bronze Age civilizations that arose in mainland Greece and on the islands of Crete and Cyprus, ca. 3000–1000 bc. Archaeological evidence and textual sources will be used to explore various aspects of Minoan, Mycenaean and Late Cypriot society, including daily life, religion, economy and long-distance exchange, warfare, mortuary practices, art and architecture. Emphasis is placed on how the palaces, both as monumental buildings and as governing institutions, shaped these various aspects of Bronze Age society.]

**CLASS 3744 Hellenistic Culture (also ARTH 3224)**

Spring. 4 credits. A. Alexandridis.  
For description, see ARTH 3224.

**CLASS 3750 Introduction to Dendrochronology (also ARKEO 3090, ARTH 3250, EAS 3750) # (HA-AS)**

Fall. 4 credits. Limited to 10 students.  
Prerequisite: permission of instructor. Letter grades only. S. Manning.

Introduction and training in dendrochronology and its application to archaeology, art history, and environmental stress through participation in a research project dating ancient to modern tree-ring samples from both the Mediterranean and the Upper New York State region. Supervised reading, laboratory/project work, field trip(s) in local area. A possibility exists for summer fieldwork in the Mediterranean.

**[CLASS 4733 Sexuality in Greek and Roman Art (also ARTH 4236/6236) # (CA-AS)]**

Fall. 4 credits. Next offered 2010-2011.  
A. Alexandridis.  
For description, see ARTH 4236.]

**CLASS 7729 Emergence of Greek Civilization (also ARKEO 7729)**

Spring. 4 credits. S. Manning.  
What happened before Classical Greece? Seminar with a focus on the development of complex to state-level society in the Aegean, and its relations with neighboring regions, from the start of the Neolithic through the Bronze Age and down to Homer.

**[CLASS 7742 Research Methods in Archaeology (also ARKEO 7742, ARTH 6252) # (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011.  
S. Manning.]

**Greek and Latin Linguistics****[GREEK 4411 Greek Comparative Grammar (also LING 4451) (KCM-AS)]**

Spring. 4 credits. Prerequisite: thorough familiarity with morphology of classical Greek. Next offered 2010-2011.  
A. Nussbaum.

The prehistory and evolution of the sounds and forms of ancient Greek as reconstructed by comparison with the other Indo-European languages.]

**[LATIN 4452 Latin Comparative Grammar (also LING 4452) (KCM-AS)]**

Fall. 4 credits. Prerequisite: thorough familiarity with morphology of classical Latin. Next offered 2010-2011.  
A. Nussbaum.

The prehistory and evolution of the sounds and forms of Classical Latin as reconstructed by comparison with the other Indo-European languages.]

**[LATIN 4453 Structure of Latin (also LING/ROMS 4453) # (KCM-AS)]**

Fall. 4 credits. Cannot be used toward the language course major requirement. Next offered 2010-2011. Staff.  
For description, see LING 4453.]

**GREEK 4455 Greek Dialects (also LING 4455) (KCM-AS)**

Fall. 4 credits. A. Nussbaum.  
Survey of the dialects of ancient Greek through the reading and analysis of representative epigraphical and literary texts.

**LATIN 4456 Archaic Latin (also LING 4456) (LA-AS)**

Spring. 4 credits. Prerequisite: reading knowledge of Latin. M. Weiss.  
Reading of epigraphical and literary pre-Classical texts with special attention to archaic and dialectal features. The position of Latin among the Indo-European languages of ancient Italy, the rudiments of Latin historical grammar, and aspects of the development of the literary language.

**[GREEK 4457 Homeric Philology (also LING 4457) # (LA-AS)]**

Spring. 4 credits. Prerequisite: ability to read Homeric Greek. Next offered 2011-2012. A. Nussbaum.  
Language of the Homeric epics: dialect background, archaisms, modernizations. Notion of a *Kunstsprache*: its constitution, use, and internal consistency. Phonological and morphological aspects of epic compositional technique.]

**[GREEK 4459 Mycenaean Greek (also LING 4459) (LA-AS)]**

Spring. 4 credits. Prerequisite: thorough familiarity with morphology of Classical Greek. Next offered 2011-2012. Staff.]

**Sanskrit****CLASS 1331-1332 Elementary Sanskrit (also LING/SANSK 1131-1132)**

1331, fall; 1332, spring. 4 credits each semester. Prerequisite: for 1331, none; for 1332, 1331. Fall, A. Nussbaum; spring, A. Ruppel.  
For description, see SANSK 1131-1132.

**CLASS 2351-2352 Intermediate Sanskrit (also LING/SANSK 2251-2252) @ #**

2351, fall; 2352, spring. 3 credits each semester. *CLASS 2351 satisfies Option 1.* Prerequisite: CLASS 1332 or equivalent. L. McCrea.  
For description, see SANSK 2251-2252.

**CLASS 3391 Independent Study in Sanskrit, Undergraduate Level**

Fall and spring. Variable to 4 credits. Prerequisite: permission of director of undergraduate studies, in extraordinary circumstances only. Staff.

**CLASS 3393 Advanced Sanskrit I (also SNLIT 3301) @ (LA-AS)**

Fall. 4 credits. L. McCrea.  
For description, see SNLIT 3301.

**CLASS 3394 Advanced Sanskrit II (also SNLIT 3302) @ (LA-AS)**

Spring. 4 credits. L. McCrea.  
For description, see SNLIT 3302.

**[CLASS 4490 Sanskrit Comparative Grammar (also LING 4460) (KCM-AS)]**

Fall. 4 credits. Next offered 2010-2011.  
A. Nussbaum.  
Survey of the historical phonology and morphology of Sanskrit in relation to the Indo-Iranian and Indo-European comparative evidence.]

**CLASS 7950 Independent Study in Sanskrit**

Fall and spring. Variable to 4 credits. Staff.

**Honors Courses****CLASS 4721-4722 Honors Course: Senior Essay**

Fall and spring. 8 credits. Student must choose advisor by end of sixth semester. Topics must be approved by Standing Committee on Honors by beginning of seventh semester.  
See "Honors" under Classics front matter.

**COGNITIVE SCIENCE PROGRAM**

M. Christiansen (psychology) and Jeff Hancock (information science), directors. G. Gay, J. Hancock (communication); C. Cardie, R. Constable, J. Halpern, D. Huttenlocher, T. Joachims, L. Lee, B. Selman, R. Zabih (computer science); G. Evans, A. Hedge (design and environmental analysis); K. Basu, L. Blume, D. Easley (economics); J. Dunn, R. Ripple, D. Schrader (education); S. Wicker (electrical and computer engineering); M. Belmonte, C. Brainerd, M. Casasola, S. Ceci, B. Koslowski, B. Lust, V. Reyna, S. Robertson, Q. Wang, E. Wethington, W. Williams (human development); K. O'Connor, J. Russo, M. Thomas-Hunt (Johnson Graduate School of Management); J. Bowers, A. Cohn, M. Diesing, W. Harbert, S. McConnell-Ginet, A. Miller-Ockhuizen, M. Rooth, C. Rosen, Y. Shirai, M. Wagner, J. Whitman, D. Zec (linguistics); A. Nerode, R. Shore (mathematics); H. Lipsion, F. Valero-Cuevas (mechanical and aerospace engineering); R. Harris-Warrick, H. Howland, R. Hoy, C. Linster, H. K. Reeve (neurobiology and behavior); R. Boyd, M. Eklund, C. Ginet, H. Hodes, D. Pereboom, S. Shoemaker, B. Weatheron (philosophy); T. Cleland, J. Cutting, R. Darlington, T. DeVoogd, D. Dunning, S. Edelman, M. Ferguson, D. Field, B. Finlay, T. Gilovich, M. Goldstein, B. Halpern, A. Isen, R. Johnston, C. Krumhansl, U. Neisser, D. Pizarro, E. Adkins Regan (psychology); M. Macy (sociology). R. Canfield, S. Hertz (associate members).

Cognitive Science comprises a number of disciplines that are linked by a major concern with fundamental capacities of the mind, such as perception, memory, reasoning, language, the organization of motor action, and their neural correlates. In the College of Arts and Sciences these disciplines are represented in the departments of Computer Science, Economics, Linguistics, Mathematics, Neurobiology and Behavior, Philosophy, Psychology, and Sociology. Elsewhere in the university they are represented in the departments of Mechanical and Computer Engineering, and Mechanical and Aerospace Engineering (College of Engineering); the departments of Design and Environmental Analysis and Human Development (College of Human Ecology); the departments of Communication and Education (College of Agriculture and Life Sciences); the Information Science Program, and the Johnson Graduate School of Management.

The issues addressed in Cognitive Science arise at several levels. At the broadest level are problems of characterizing such basic notions as "mind," "knowledge," "information," and "meaning." At a more specific level are questions regarding the abstract operating principles of individual components of the mind, such as those underlying visual perception, language ability, and understanding of concepts. These principles

concern the organization and behavior of the components and how they are biologically represented in the brain. At the most specific level are questions about the properties of the elementary computational structures and processes that constitute these components.

Important insights into issues of these kinds have been achieved in recent years as a result of the various Cognitive Science disciplines converging in their theoretical and methodological approaches. It is this convergence, in fact, that warrants grouping the disciplines together under the single term "Cognitive Science." Even greater progress can be expected in the future as a consequence of increasing cooperation among the disciplines.

### Undergraduate Minor

An interdisciplinary undergraduate minor in Cognitive Science is available to Cornell University undergraduates in the College of Arts and Sciences. Students from other colleges who seek such a minor should discuss such possibilities with the Cognitive Science office, which will provide information and contacts concerning such minors.

The undergraduate minor in Cognitive Science is designed to enable students to engage in a structured program directly related to the scientific study of cognition and the mind. The minor provides a framework for the design of structured, supervised programs of study in this growing interdisciplinary field. Such programs of study serve as complements to course work in a single discipline as represented by an individual department. It is considered crucial that students gain a strong background in their major, independent of their work in the minor. Independent majors and college scholars may also apply. Colleges vary in their procedures for formal recognition of this minor (contact the Cognitive Science office for details). The Cognitive Science Program faculty have designed five structured "tracks" that offer students different ways of satisfying the minor. In addition, students are always able to construct their own programs of study subject to approval by their minor advisor. The courses listed under each track are program suggestions. The student should consult his or her Cognitive Science advisor to develop a more customized curriculum. In some cases, students may want to combine or cross tracks.

In general, it is expected that students in the minor will take COGST 1101 or COGST 2140 as their introductory course requirement; either COGST 4120, COGST 4160, COGST 4500, or COGST 4700 as their lab course requirement; and three courses at the 3000 and 4000 level in at least two departments (or certain suitable 2000-level courses by petition). Courses are to be chosen by student and advisor to provide a coherent program. Even though only five courses are required to complete the minor, we assume students interested in Cognitive Science will often end up taking more. An independent research project (e.g., COGST 4700 if this is not used to satisfy the lab requirement) and a research workshop (COGST 4710) are encouraged. Please note: minor modifications to this outline may be made in extenuating circumstances by the advisor, in consultation with the program director.

The five typical tracks are as follows. Note that many of these courses have substantial prerequisites.

### 1. Perception and Cognition

This track focuses on psychological, computational, and neurobiological approaches to the interface between perception and cognition. Students will develop a grasp of the continuum between sensory impressions and complex thought.

BIONB 3260 The Visual System  
 BIONB 4330/COGST 4310/PSYCH 5310  
 Consciousness and Free Will  
 COGST 1101/CS 1710/LING 1170/PHIL  
 1910/PSYCH 1102 Introduction to  
 Cognitive Science  
 COGST/PSYCH 2140 Cognitive Psychology  
 COGST/PSYCH 3420 Human Perception:  
 Applications to Computer Graphics, Art,  
 and Visual Display  
 COGST/PSYCH 4160 Modeling Perception  
 and Cognition  
 COGST 4500/HD 4370/LING 4500/PSYCH  
 4370 Lab Course: Language  
 Development  
 COGST 4650/CS 3920/PSYCH 4650 Topics  
 in High-Level Vision  
 PSYCH 3050 Visual Perception  
 PSYCH 3160 Auditory Perception  
 PSYCH 4120 Laboratory in Cognition and  
 Perception  
 PSYCH 4180 Psychology of Music

### 2. Language and Cognition

This track focuses on the representation, processing, and acquisition and learning of language, as well as its role in cognition and culture. Students will acquire skills and knowledge in formal and applied linguistic theory, psycholinguistic experimentation, and computational modeling techniques.

COGST 1101/CS 1101/LING 1170/PHIL  
 1910/PSYCH 1102 Introduction to  
 Cognitive Science  
 COGST/PSYCH 2140 Cognitive Psychology  
 COGST/LING/PSYCH 2150 Psychology of  
 Language  
 COGST/PSYCH 4270 Evolution of  
 Language  
 COGST/LING/PSYCH 4280 Connectionist  
 Psycholinguistics  
 COGST 4340/HD 4240 Current Topics in  
 Cognitive Development  
 COGST/HD 4360/LING 4436/PSYCH 4360  
 Language Development  
 COGST 4500/HD 4370/LING 4500/PSYCH  
 4370 Lab Course: Language  
 Development  
 CS 4110 Programming Languages and  
 Logics  
 LING 3301–3302 Introduction to Phonetics  
 LING 3303 Introduction to Syntax  
 LING 3304 Introduction to Semantics  
 Pragmatics  
 LING 4403 Syntax I, II  
 LING 4421–4422 Semantics I and II  
 PHIL 3320 Philosophy of Language

### 3. Cognition and Information Processing

This track focuses on how the mind (or a computer) can encode, represent, and store information. Students will develop an understanding of concepts, categories, memory, and the nature of information itself.

COGST 1101/CS 1101/LING 1170/PHIL  
 1910/PSYCH 1102 Introduction to  
 Cognitive Science  
 COGST/PSYCH 2140 Cognitive Psychology

COGST/PSYCH 4140 Comparative  
 Cognition  
 COGST 2340/HD 3340 The Growth of the  
 Mind  
 COGST/HD 4320 Cognitive, Social, and  
 Developmental Aspects of Scientific  
 Reasoning  
 COGST 4500/HD 4370/LING 4500/PSYCH  
 4370 Lab Course: Language  
 Development  
 CS 2110 Computers and Programming  
 CS 4700 Foundations of Artificial  
 Intelligence  
 CS 4701 Practicum in Artificial Intelligence  
 PSYCH 4120 Laboratory in Cognition and  
 Perception  
 PSYCH 4130 Information Processing:  
 Conscious and Nonconscious  
 PSYCH 4150 Concepts, Categories, and  
 Word Meanings  
 PSYCH 4170 The Origins of Thought and  
 Knowledge

### 4. Cognitive Neuroscience

This track focuses on neurobiological and computational approaches to understanding how perception and cognition emerge in the human brain. Students will acquire knowledge of what neural structures subserve what perceptual/cognitive processes, and how they interact.

COGST 1101/CS 1101/LING 1170/PHIL  
 1910/PSYCH 1102 Introduction to  
 Cognitive Science  
 COGST/PSYCH 2140 Cognitive Psychology  
 COGST/HD 2200 The Human Brain and  
 Mind  
 COGST/BIONB/PSYCH 3300 Introduction  
 to Computational Neuroscience  
 PSYCH 3320/BIONB 3280 Biopsychology  
 of Learning and Memory  
 PSYCH/BIONB 3960 Introduction to  
 Sensory Systems  
 PSYCH 4250 Cognitive Neuroscience

### 5. Independent Study

With approval from the Cognitive Science undergraduate curriculum committee, a student and advisor in the Cognitive Science program can arrange their own unique collection of courses that do not belong to the above categories for satisfying the minor requirements.

COGST 4700 Undergraduate Research in  
 Cognitive Studies  
 COGST 4710 Cognitive Studies Research  
 Workshop

A Cognitive Science undergraduate laboratory and computer facility (201 Uris Hall) is available for all students in a Cognitive Science minor. This facility will help link resources from different laboratories across the Cornell campus as well as providing a central location for developing and conducting experimental research in Cognitive Science.

Students who complete the minor requirements will have their minor in Cognitive Science officially represented on their transcript. In addition, students who have made substantial progress toward completing the requirements for the minor will be eligible for enrollment in the graduate courses in Cognitive Science during their senior year.

**Minor Application Procedures.** Initial inquiries concerning the undergraduate concentration should be made to the Cognitive Science Program coordinator, Julie

Simmons-Lynch, cogst@cornell.edu, 255-6431, who will provide application materials.

To formally initiate the minor in Cognitive Science, a student must gain approval for a selection of courses from a minor advisor (one of the program faculty). The courses selected must form a coherent cluster that makes sense to both the advisor and the student. To be admitted to the minor, the student must submit this plan of study to the Cognitive Science undergraduate faculty committee for final approval.

In addition to assisting in and approving the student's selection of courses, the minor advisor serves as a general source of information about the field of Cognitive Science, relevant resources around the university, and job and graduate school opportunities. Often, the advisor can help the student develop independent research experience.

**Independent Research.** The minor encourages each student to be involved in independent research that bears on research issues in Cognitive Science, if possible. COGST 4700 is available for this purpose. It is recommended that students report on their research activities in an annual undergraduate forum. The Undergraduate Minor Committee is committed to helping students find an appropriate research placement when needed.

The Committee for Undergraduate Minor in Cognitive Science consists of: Bart Selman, Computer Science, 255-5643, 4144 Upson Hall, selman@cs.cornell.edu; Draga Zec, linguistics, 255-0728, 217 Morrill Hall, dz17@cornell.edu; Morten Christiansen, psychology, 255-3570, 2380 Uris Hall, mhc27@cornell.edu. The current director of undergraduate studies is Draga Zec.

### Graduate Minor

Entering graduate students, as well as advanced undergraduates, who are interested in cognition and in the cognitive sciences are advised to take the proseminar course COGST 6501 Introduction to Cognitive Science [not offered 2009-2010] in the fall semester. Enrolling in this 4-credit version of COGST 1101 involves a weekly section meeting with the instructor and will satisfy the introductory course requirement.

Graduate students minoring in Cognitive Science will take additional courses recommended by their graduate committee to complete their course requirements.

For more information, consult the program office (278G Uris Hall, 255-6431, cogst@cornell.edu) or the director of graduate studies, Morten Christiansen (255-3570, mhc27@cornell.edu).

## Courses

### Cognitive Science

#### **COGST 1101 Introduction to Cognitive Science (also CS 1710, LING 1170, PHIL 1910, PSYCH 1102) (KCM-AS)**

Fall. 3 or 4 credits; 4-credit option involves writing section instead of exams. Staff. Surveys the study of how the mind/brain works. Examines how intelligent information processing can arise from biological and artificial systems. Draws primarily from five disciplines that make major contributions to cognitive science: philosophy, psychology,

neuroscience, linguistics, and computer science. The first part of the course introduces the roles played by these disciplines in cognitive science. The second part focuses on how each of these disciplines contributes to the study of five topics in cognitive science: language, vision, learning and memory, action, and artificial intelligence.

#### **COGST 1110 Brain, Mind, and Behavior (also BIONB/PSYCH 1110) (PBS)**

Spring. 3 credits. Intended for freshmen and sophomores in humanities and social sciences; seniors not allowed. Not recommended for psychology majors; biology majors may not use course for credit toward major. Letter grades only. R. Hoy and E. Adkins Regan.

Understanding how the brain creates complex human behavior and mental life is a great scientific frontier of the next century. This course enables students with little scientific background from any college or major to appreciate the excitement. What are the interesting and important questions? How are researchers trying to answer them? What are they discovering? Why did the brain evolve this remarkable capacity?

#### **COGST 1500 Intro to Human Environment Relations (also DEA 1500)**

Spring. 3 credits. G. Evans.  
For description, see DEA 1500.

#### **COGST 2140 Cognitive Psychology (also PSYCH/INFO 2140/6140) (KCM-AS)**

Spring. 4 credits. Limited to 200 students. Prerequisite: sophomore standing. Note: Undergraduates who want 5 credits also should enroll in COGST 6150. S. Edelman.  
For description, see PSYCH 2140.

#### **COGST 2150 Psychology of Language (also LING/PSYCH 2150) (KCM-AS)**

Spring. 3 credits. Prerequisite: sophomore, junior, or senior standing; any one course in psychology or human development. M. Christiansen.  
For description, see PSYCH 2150.

#### **COGST 2300 Cognitive Development (also HD 2300)**

Spring. 3 credits. Prerequisite: HD 1150 or PSYCH 1101. Q. Wang.

Designed to help students develop a broad understanding of the mechanisms, processes, and current issues in cognitive development and learn to do critical, in-depth analyses of developmental research. Discusses how children's thinking changes over the course of development and evaluate psychological theories and research on various aspects of cognitive development. Topics include perception, representation and concepts, reasoning and problem solving, social cognition, memory, metacognition, language and thought, and academic skills. Students also have hands-on research experiences with "real" kids.

#### **COGST 2380 Thinking and Reasoning (also HD 2380)**

Fall. 3 credits. Prerequisite: HD 1150 or PSYCH 1101. B. Koslowski.  
Examines problem solving and transfer, precausal thinking, logical thinking, practical syllogisms, causal reasoning, scientific reasoning, theories of evidence, expert vs. novice differences, and nonrational reasoning. Two general issues run through the course: the extent to which children and adults approximate the sorts of reasoning that are

described by various types of models, and the extent to which various models accurately describe the kind of thinking that is required by the types of problems and issues that arise and must be dealt with in the real world.

#### **COGST 3300 Introduction to Computational Neuroscience (also BIONB 2330/PSYCH 3300) (PBS)**

Fall. 3-4 credits; 4-credit option includes lab providing additional computer simulation exercises. Limited to 25 students. Prerequisite: BIONB 2220 or permission of instructor. C. Linster.  
For description, see BIONB 2330.

#### **COGST 3330 Problems in Semantics—Quantification in Natural Language (also LING 3333, PHIL 3700) (KCM-AS)**

Spring. 4 credits. Prerequisites: course in logic or semantics or permission of instructor. D. Abusch.  
For description, see LING 3333.

#### **COGST 3340 The Growth of the Mind (also HD 3340) (KCM-AS)**

Spring. 4 credits. Prerequisite: course in human experimental psychology, cognitive psychology, statistics, HD 1150, or equivalent, or permission of instructor. Primarily intended for sophomores through seniors. B. Lust.

The fundamental issues of cognition are introduced in this course. What is the nature of human intelligence? Of logical and scientific reasoning? How are knowledge and understanding acquired and represented in the human mind? What is the nature of mental representation? What are the cognitive characteristics of the mind at birth? What is the relation of the acquisition of knowledge and understanding to their final representation? What are the relations between language and thought? In the study of those issues, how can epistemology and experimental psychology be related through the experimental method? Basic debates within the study of cognition are introduced and discussed throughout. The course will analyze Piaget's comprehensive theory of cognitive development and experimental results. Current research in cognitive development will be contrasted.

#### **COGST 3370 Language Development (also HD 3370, LING 4436, PSYCH 4360) (KCM-AS)**

Spring. 4 credits. Open to undergraduate and graduate students. Graduate students should also enroll in HD 6330 or LING 7700, a supplemental graduate seminar. Prerequisite: at least one course in developmental psychology, cognitive psychology, cognitive development, or linguistics. S-U or letter grades. B. Lust.  
Surveys basic issues, methods, and research in the study of first-language acquisition. Major theoretical positions in the field are considered in the light of experimental studies in first-language acquisition of phonology, syntax, and semantics from infancy on. The fundamental linguistic issues of "Universal Grammar" and the biological foundations for acquisition are discussed, as are the issues of relations between language and thought. The acquisition of communication systems in nonhuman species such as chimpanzees is addressed, but major emphasis is on the child. An optional lab course supplement is available (see COGST 4500/HD 4370/LING 4500/PSYCH 4370).

**COGST 3420 Human Perception: Applications to Computer Graphics, Art, and Visual Display (also PSYCH 3420/6420, VISST 3342)**

Fall. 3 or 4 credits; 4-credit option involves term paper. Prerequisite: PSYCH 1101 or permission of instructor. Highly recommended: PSYCH 2050. D. Field.

Our present technology allows us to transmit and display information through a variety of media. To make the most of these media channels, it is important to consider the limitations and abilities of the human observer. The course considers a number of applied aspects of human perception with an emphasis on the display of visual information. Topics include "three-dimensional" display systems, color theory, spatial and temporal limitations of the visual systems, attempts at subliminal communication, and "visual" effects in film and television.

**[COGST 4120 Laboratory in Cognition and Perception (III) (also PSYCH 4120) (KCM-AS)**

Spring. 4 credits. Limited to 15 students. Prerequisite: statistics and one course in cognition or perception recommended. Graduate students, see PSYCH 6120. Next offered 2010–2011. D. J. Field.

Laboratory course designed to introduce students to experimental methods in perception and cognitive psychology. Students take part in a number of classic experiments and develop at least one independent project. Computers are available and used in many of the experiments although computer literacy is not required. Projects are selected from the areas of visual perception, pattern recognition, memory, and concept learning.]

**COGST 4240 Computational Linguistics (also CS 3470, LING 4424) (MQR)**

Fall. 4 credits. Recommended: CS 2006. Labs involve work in Unix environment. J. Hale.

For description, see LING 4424.

**[COGST 4260 Learning Language (also PSYCH 4260/7260) (KCM-AS)**

Spring. 4 credits. Limited to 20 students. Prerequisite: PSYCH 2140 or by permission of the instructor. Next offered 2010–2011. S. Edelman.

For description, see PSYCH 4260.]

**COGST 4270 Evolution of Language (also PSYCH 4270/6270)**

Fall. 3 credits. Limited to 20 students. Prerequisite: senior standing or permission of instructor. Offered alternate years. M. Christiansen.

For description, see PSYCH 4270.

**[COGST 4280 Connectionist Psycholinguistics (also LING 4428, PSYCH 4280/6280)**

Fall. 3 credits. Prerequisite: senior standing or permission of instructor. Offered alternate years; next offered 2010–2011. M. Christiansen.

For description, see PSYCH 4280.]

**COGST 4310 Consciousness and Free Will (also BIONB 4330, PSYCH 4320)**

Spring. 4 credits. Prerequisite: PSYCH/COGST/INFO 2140/6140. S. Edelman.

This advanced course builds on the foundations of the computational understanding of the human mind provided by PSYCH 2140 (Cognitive Psychology). It covers consciousness, free will, ethics, wisdom, and happiness through a

combination of readings (which include a textbook, research articles, and short stories by Borges), lectures, and in-class discussions. For details, see the instructor's web page.

**COGST 4320 Cognitive, Social, and Developmental Aspects of Scientific Reasoning (also HD 4320)**

Fall. 3 credits. Prerequisites: HD 1150 or PSYCH 1101. Offered alternate years. B. Koslowski.

For description, see HD 4320.

**COGST 4330 Developmental Cognitive Neuroscience (also HD 4330)**

Spring. 3 credits. Limited to 25 students. Prerequisite: HD 1150 or PSYCH 1101 and one semester of biology; permission of instructor.

For description, see HD 4330.

**COGST 4340 Current Topics in Cognitive Development (also HD 4240) (KCM-AS)**

Spring. 3 credits. Corequisite: COGST/HD 2340; permission of instructor. Offered alternate years.

The course will supplement survey course HD/COGST 3340 with additional discussion of current research in the area of cognitive development. Selected current papers will be read and discussed in parallel with the HD/COGST 3340 survey course. Modern interpretations and challenges to Piaget's theory will be evaluated in light of current literature in the field. A small group format will be adopted to encourage discussion.

**COGST 4350 Mind, Self, and Emotion: Research Seminar (also HD 4310)**

Fall. 3 credits. Limited to 20 students. Prerequisite: upperclass undergraduate or graduate standing. Letter grades only. Q. Wang.

Examines current data and theory concerning memory, self, and emotion from a variety of perspectives and at multiple levels of analysis, particularly focusing on the interconnections among these fields of inquiry. A special emphasis is given to cross-cultural studies on memory development, self-construal, and conception of emotion.

**[COGST 4500 Lab Course: Language Development (also HD/PSYCH 4370, LING 4500)**

Fall. 2 credits. In conjunction with COGST/HD/LING/PSYCH 4370. Next offered 2010–2011. B. Lust.

Optional supplement to the survey course Language Development (COGST/HD/LING/PSYCH 4370). The lab course provides students with a hands-on introduction to scientific research, including design and methods, in the area of first-language acquisition.]

**COGST 4520 Culture and Human Development (also AAS/HD 4520) (CA-AS)**

Fall. 3 credits. Limited to 30 students. Prerequisite: HD 1150 or PSYCH 1101. Q. Wang.

Takes an interdisciplinary approach to address the central role of culture in human development. Draws on diverse theoretical perspectives, including psychology, anthropology, education, ethnography, and linguistics, to understand human difference, experience, and complexity. Empirical reflections are taken upon major developmental topics such as cultural aspects of physical growth and development; culture

and cognition; culture and language; culture, self, and personality; cultural construction of emotion; culture issues of sex and gender; and cultural differences in pathology.

**COGST 4650 Topics in High-Level Vision: Embodied Cognition (also PSYCH 4650/6650) (KCM-AS)**

Spring. 4 credits. S. Edelman and M. Goldstein.

For description, see PSYCH 4650.

**COGST 4700 Undergraduate Research in Cognitive Science**

Fall or spring. 1–4 credits. Prerequisite: permission of major advisor; written permission of Cognitive Science faculty member who supervises research and assigns grade. S–U or letter grades. Cognitive Science faculty.

Experience in planning, conducting, and reporting independent laboratory, field, and/or library research in an interdisciplinary area relevant to Cognitive Science.

**COGST 4710 Cognitive Science Research Workshop**

Fall or spring. Variable credit. Prerequisites: enrollment in an independent research course either in Cognitive Science (e.g., COGST 4700) or in a related department or in honors thesis research in one of the departments relevant to Cognitive Science. Staff (interdisciplinary faculty from Cognitive Science Program).

Provides a research workshop in which undergraduate students who are engaged in research in a particular area relevant to cognitive science can meet across disciplines to learn and practice the essentials of research using interdisciplinary approaches. In this workshop, students critique and discuss the existing literature in a field of inquiry, individual students present their research designs, methods, and results from their independent research studies, debate the interpretation of their research results, and participate in the generation of new research hypotheses and designs, in a peer group of other undergraduate students involved in related research.

**COGST 4740 Introduction to Natural Language Processing (also CS 4740, LING 4474)**

Fall or spring. 4 credits. Prerequisite: CS 2110. C. Cardie.

For description, see CS 4740.

**COGST 4760–4770 Decision Theory I and II (also COGST/ECON 6760–6770, ECON 4760–4770) (MQR)**

Fall and spring. 4 credits each semester. In fall, course is lecture based. Students are required to complete several problem sets and there is a final exam. In spring, there are additional lectures as well as visiting speakers. Students are required to read speakers' papers, participate in discussions, and complete a research project. L. Blume, D. Easley, and J. Halpern.

Research on decision theory resides in a variety of disciplines including computer science, economics, game theory, philosophy, and psychology. This new course attempts to integrate these various approaches. The course is taught jointly by two economists/game theorists and a computer scientist. The course covers several areas: (1) basic decision theory. This theory, sometimes known as "rational choice theory," is part of the foundation for the disciplines listed above. It applies to decisions

made by individuals or by machines. (2) the limitations of and problems with this theory. Issues discussed here include decision theory paradoxes revealed by experiments, cognitive and knowledge limitations, and computational issues. (3) new research designed in response to these difficulties. Issues covered include alternative approaches to the foundations of decision theory, adaptive behavior, and shaping the individual decisions by aggregate/evolutionary forces.

**COGST 4910 Research Methods in Psychology (also COGST 6910, PSYCH 4910/6910)**

Spring. 4 credits. Limited to 15 students. Recommended: permission of instructor, PSYCH 3500, experience in upper-division psychology courses, or graduate standing. Graduate students, see COGST 6910. V. Zayas.

For description, see PSYCH 4910.

**Computer Science**

**CS 1710 Introduction to Cognitive Science (also COGST 1101, LING 1170, PHIL 1910, PSYCH 1102)**

Fall. 3 or 4 credits. Staff.

**CS 2110 Computers and Programming**

Fall, spring, or summer. 3 credits.

**CS 3110 Data Structures and Functional Programming**

Fall or spring. 4 credits.

**CS 3470 Computational Linguistics (also COGST 4240, LING 4424)**

Fall. 4 credits. M. Rooth.

**CS 3810 Introduction to Theory of Computing**

Fall, summer. 4 credits.

**CS 4700 Foundations of Artificial Intelligence**

Fall. 3 credits. T. Joachims.

**CS 4701 Practicum in Artificial Intelligence**

Fall. 2 credits. T. Joachims.

**CS 4740 Introduction to Natural Language Processing (also COGST 4740, LING 4474)**

Fall. 4 credits. M. Rooth.

**CS 4780 Machine Learning**

Spring. 3 credits.

**CS 4860 Applied Logic (also MATH 4860)**

Spring. 4 credits.

**Education (College of Agriculture and Life Sciences)**

**EDUC 6140 Gender, Context, and Epistemological Development**

Fall. 3 credits. D. Schrader.

**Human Development (College of Human Ecology)**

**HD 1150 Human Development**

Fall or summer. 3 credits.

**[HD 2200 The Human Brain and Mind: Biological Issues in Human Development (also COGST 2200)]**

Fall. 3 credits. Next offered 2010-2011.]

**HD 2300 Cognitive Development (also COGST 2300)**

Spring. 3 credits. Q. Wang.

**HD 2380 Thinking and Reasoning (also COGST 2380)**

Fall. 3 credits. B. Koslowski.

**HD 2660 Emotional Functions of the Brain**

Spring. 3 credits.

**HD 3200 Human Developmental Neuropsychology**

Spring. 3 credits. B. Koslowski.

**HD 3360 Connecting Social, Cognitive, and Emotional Development**

Fall. 3 credits. M. Casasola.

**HD 3370 Language Development (also COGST/PSYCH 3370, LING 4436)**

Spring. 4 credits. B. Lust.

**HD 3440 Infant Behavior and Development**

Fall. 3 credits. S. Robertson.

**HD 3470 Human Growth and Development: Biological and Behavioral Interactions (also BSOC/NS 3470)**

Spring. 3 credits. S. Robertson and J. Haas.

**HD 3620 Human Bonding**

Fall. 3 credits.

**HD 4310 Mind, Self, and Emotion: Research Seminar (also COGST 4350)**

Fall. 3 credits. Q. Wang.

**HD 4320 Cognitive, Social, and Developmental Aspects of Scientific Reasoning (also COGST 4320)**

Fall. 3 credits. B. Koslowski.

**HD 4330 Developmental Cognitive Neuroscience (also COGST 4330)**

Spring. 3 credits. E. Temple.

**HD 4370 Lab Course: Language Development (also COGST/LING 4450, PSYCH 4370)**

Spring. 2 credits. In conjunction with HD 3370, COGST/LING/PSYCH 4360. B. Lust.

**HD 4520 Culture and Human Development (also AAS/COGST 4520)**

Fall. 3 credits. Q. Wang.

**Linguistics**

**LING 1170 Introduction to Cognitive Science (also COGST 1101, CS 1710, PHIL 1910, PSYCH 1102)**

Fall. 3 or 4 credits. Staff.

**LING 2215 Psychology of Language (also COGST 2150, LING 7715, PSYCH 2150/7150)**

Spring. 3 credits. M. Christiansen.

**LING 3332 Philosophy of Language (also PHIL 3320)**

Fall. 4 credits. Staff.

**LING 3333 Problems in Semantics—Quantification in Natural Language (also COGST/PHIL 3330)**

Spring. 4 credits.

**LING 4424 Computational Linguistics (also COGST 4240, CS 3470)**

Fall. 4 credits. M. Rooth.

**LING 4425 Pragmatics**

Spring. 4 credits.

**[LING 4428 Connectionist Psycholinguistics (also COGST 4280, LING 6628, PSYCH 4280/6280)]**

Fall. 3 credits. Offered alternate years; next offered 2010-2011. M. Christiansen.]

**LING 4436 Language Development (also COGST/HD/PSYCH 4360)**

Fall. 4 credits. B. Lust.

**LING 4474 Introduction to Natural Language Processing (also COGST/CS 4740)**

Fall. 4 credits. L. Lee.

**LING 4500 Lab Course: Language Development (also COGST 4500, HD/PSYCH 4370)**

Fall. 2 credits. In conjunction with COGST/HD/LING/PSYCH 4360. B. Lust.

**Mathematics**

**[MATH 2810 Deductive Logic (also PHIL 3310)]**

**MATH 4810 Mathematical Logic (also PHIL 4310)**

Spring. 4 credits. Offered alternate years.

**MATH 4860 Applied Logic (also CS 4860)**

Spring. 4 credits.

**Neurobiology and Behavior**

**BIONB 1110 Brain, Mind, and Behavior (also COGST/PSYCH 1110)**

Spring. 3 credits. R. Hoy and E. Adkins Regan.

**BIONB 2210 Neurobiology and Behavior I: Introduction to Behavior**

Fall. 3 or 4 credits.

**BIONB 2220 Neurobiology and Behavior II: Introduction to Neurobiology**

Spring. 3 or 4 credits.

**BIONB 3260 The Visual System**

Spring. 4 credits. H. Howland.

**BIONB 3280 Biopsychology of Learning and Memory (also PSYCH 3320)**

Spring. 3 credits. T. DeVoogd.

**BIONB 3330 Introduction to Computational Neuroscience (also COGST/PSYCH 3300)**

Fall. 3-4 credits. C. Linster.

**BIONB 3920 Drugs and the Brain**

Spring. 4 credits. R. Harris-Warrick and L. M. Nowak.

**BIONB 3960 Introduction to Sensory Systems (also PSYCH 3960)**

Spring. 3 or 4 credits. B. Halpern.

**BIONB 4210 Effects of Aging on Sensory and Perceptual Systems (also PSYCH 4310/6310)**

Fall. 3 or 4 credits. B. Halpern.

**BIONB 4240 Neuroethology (also PSYCH 4240)**

Spring. 4 credits.

**BIONB 4260 Animal Communication**

Spring. 4 credits.

**BIONB 4920 Sensory Function (also PSYCH 4920/6920, VISST 4920)**

Spring. 3 or 4 credits. H. Howland.

**BIONB 4960 Bioacoustic Signals in Animals and Man**

Fall. 3 credits. C. Clark and R. Hoy.

**Philosophy**

**PHIL 2620 Introduction to Philosophy of Mind**  
Fall. 4 credits.

**PHIL 4310 Mathematical Logic (also MATH 4810)**

**Psychology**

**PSYCH 1102 Introduction to Cognitive Science (also COGST/CS 1101, LING 1170, PHIL 1910)**  
Fall. 3 or 4 credits. Staff.

**PSYCH 1110 Brain, Mind, and Behavior (also BIONB 1111, COGST 1110)**  
Spring. 3 credits. R. Hoy and E. Adkins Regan.

**PSYCH 2050 Perception (also PSYCH 6050)**  
Fall. 3 credits. J. Cutting.

**PSYCH 2090 Developmental Psychology (also PSYCH 7090)**  
Spring. 4 credits. M. Goldstein.

**PSYCH 2140 Cognitive Psychology (also COGST 2140)**  
Spring. 3 credits. S. Edelman.

**PSYCH 2150 Psychology of Language (also COGST 2150, LING 2215/7715, PSYCH 7150)**  
Spring. 3 credits. M. Christiansen.

**PSYCH 2230 Introduction to Biopsychology**  
Fall. 3 credits. D. Smith.

**PSYCH 3050 Visual Perception (also VISST 3305)**  
Spring. 4 credits. J. Cutting.

**PSYCH 3160 Auditory Perception (also PSYCH 7160)**  
Spring. 3 or 4 credits. C. Krumhansl.

**PSYCH 3260 Evolution of Human Behavior (also PSYCH 6260)**  
Spring. 4 credits. R. Johnston.

**PSYCH 3300 Introduction to Computational Neuroscience (also BIONB/COGST 3300)**  
Fall. 3–4 credits. C. Linster.

**PSYCH 3320 Biopsychology of Learning and Memory (also BIONB 3280, PSYCH 6320)**  
Spring. 3 credits. T. DeVoogd.

**PSYCH 3420 Human Perception: Applications to Computer Graphics, Art, and Visual Display (also COGST 3420, PSYCH 6420, VISST 3342)**  
Fall. 3 or 4 credits. D. Field.

**PSYCH 3610 Biopsychology of Normal and Abnormal Behavior (also NS 3610)**  
Fall. 3 credits. B. J. Strupp.

**[PSYCH 3960 Introduction to Sensory Systems (also BIONB 3960, PSYCH 6960)**  
Spring. 3 or 4 credits. Next offered 2011–2012. B. Halpern.]

**PSYCH 4120 Laboratory in Cognition and Perception (also PSYCH 6121)**  
Spring. 4 credits. D. Field.

**PSYCH 4180 Psychology of Music (also PSYCH 6180)**  
Fall. 3 or 4 credits. C. Krumhansl.

**PSYCH 4240 Neuroethology (also BIONB 4240)**  
Spring. 4 credits. C. D. Hopkins.

**[PSYCH 4250 Cognitive Neuroscience (also PSYCH 6250)**  
Fall. 4 credits. Next offered 2010–2011. B. Finlay.]

**PSYCH 4260 Learning Language**  
Spring. 4 credits. S. Edelman. Next offered 2010–2011.]

**PSYCH 4270 Evolution of Language (also COGST 4270, PSYCH 6270)**  
Fall. 3 credits. Offered alternate years. M. Christiansen.

**[PSYCH 4280 Connectionist Psycholinguistics (also COGST 4280, LING 4428/6628, PSYCH 6280)**  
Fall. 3 credits. Offered alternate years; next offered 2010–2011. M. Christiansen.]

**PSYCH 4310 Effects of Aging on Sensory and Perceptual Systems (also BIONB 4210, PSYCH 6310)**  
Fall. 3 or 4 credits. B. Halpern.

**PSYCH 4360 Language Development (also COGST/HD 4360, LING 4436)**  
Spring. 4 credits. B. Lust.

**PSYCH 4370 Lab Course: Language Development (also COGST/LING 4500, HD 4370)**  
Fall. 2 credits. In conjunction with COGST/HD/LING/PSYCH 4360. B. Lust.

**PSYCH 4650 Topics in High-Level Vision: Embodied Cognition (also COGST 4650, CS 3920, PSYCH 6655)**  
Spring. 4 credits. Offered alternate years. S. Edelman and M. Goldstein.

**PSYCH 4910 Research Methods in Psychology (also COGST 4910/6910, PSYCH 6910)**  
Spring. 4 credits. V. Zayas.

**[PSYCH 4920 Sensory Function (also BIONB/VISST 4920, PSYCH 6920)**  
Spring. 4 credits. Next offered 2012–2013. B. Halpern and H. Howland.]

**Graduate Courses and Seminars**

The following courses and seminars are generally for graduate students only. However, some may be appropriate for advanced undergraduates. The director of the minor must approve an undergraduate's use of any of these for satisfying the minor requirements.

**[COGST 4300 Structure in Vision and Language (also PSYCH 6301)**  
Spring. 4 credits. Limited to 20 students. Graduate seminar. Prerequisites: graduate standing or undergraduates by permission of instructor; one course each in cognitive psychology, linguistics, and computer science, or permission of instructor. Offered alternate years; next offered 2010–2011. S. Edelman.]

**[COGST 5500 Special Topics in Cognitive Science**  
Fall. 4 credits. Next offered 2010–2011. Staff.]

**COGST 6140 Cognitive Psychology (also PSYCH 6140)**

Spring. 3 credits. Includes lec of COGST/PSYCH 2140 and a sec. S. Edelman. Introduces the idea of cognition as information processing, or computation, using examples from perception, attention and consciousness, memory, language, and thinking. Participants acquire conceptual tools that are essential for following the current thought on the nature of mind and its relationship to the brain.

**COGST 6330 Language Acquisition Seminar (also HD/LING 6633)**  
Fall. 1–4 credits. Prerequisite: COGST/HD/LING/PSYCH 4360 or equivalent, or permission of instructor. B. Lust.

Reviews and critiques current theoretical and experimental studies of first-language acquisition, with a concentration on insights gained by cross-linguistic study of this area. Attention is also given to the development of research proposals.

**[COGST 6501 Introduction to Cognitive Science, Proseminar**  
Fall. 4 credits. Next offered 2010–2011. Staff.

COGST 6501 surveys the study of how the mind/brain works, drawing primarily from five disciplines: philosophy, psychology, neuroscience, linguistics, and computer science. Graduate students will observe the Tuesday/Thursday lectures for COGST 1101 and attend a weekly discussion section.]

**COGST 6710 Introduction to Automated Reasoning (also CS 6762)**  
Fall. 4 credits. Prerequisite: (CS 6110 and graduate standing) or permission of instructor.

Topics in modern logic needed to understand and use automated reasoning systems such as HOL, Nuprl, and PVS. Special emphasis is on type theory and logic and on tactic-oriented theorem proving.

**COGST 6760–6770 Decision Theory (also COGST 4760–4770, CS 5846–5847, ECON 4460–4470/6760–6770)**

Fall and spring. 4 credits each semester. Fall: lecture-based; students must complete several problem sets and a final exam. Spring: additional lectures as well as visiting speakers; students must read speakers' papers, participate in discussions, and complete a research project. L. Blume, D. Easley, and J. Halpern. For description, see COGST 4760–4770.

**COGST 6910 Research Methods in Psychology (also COGST 4910, PSYCH 4910/6910)**

Spring. 4 credits. Limited to 15 students. V. Zayas. Intensive examination of the basic research methods used in social, personality, cognitive, and developmental psychology. Focuses on designing and conducting experiments, i.e., how to turn vague theories into concrete and testable notions, evaluate studies, avoid common pitfalls, and, finally, remain ethical. The course, in addition, covers test construction, survey methods, and "quasi experiments." Students concentrate on completing a small research project in which they conduct an experiment, interpret its data, and write up the results.

**COGST 7000 First-Language Acquisition (also HD 6370)**

Spring. 1-4 credits. Prerequisites: COGST/HD/LING/PSYCH 3370 and permission of instructor. B. Lust.

For description, see HD 6370.

**COGST 7100 Research in Human Experimental Psychology (also PSYCH 7100)**

Fall or spring. Credit TBA. Prerequisite: permission of instructor.

**CS 6670 Machine Vision**

Spring. 4 credits. R. Zabih.

**CS 6700 Advanced Artificial Intelligence**

Spring. 4 credits. Prerequisite: CS 4700.

**CS 6740 Natural Language Processing**

Fall. 4 credits. Prerequisite: CS 4700. Not offered every year.

**CS 6762 Introduction to Automated Reasoning (also COGST 6710)**

Fall. 4 credits.

**CS 6764 Reasoning about Knowledge**

Fall. 4 credits. Prerequisites: mathematical maturity and acquaintance with propositional logic.

**CS 6766 Reasoning about Uncertainty**

Fall. 4 credits. Prerequisites: mathematical maturity and acquaintance with propositional logic.

**CS 7794 Seminar in Natural Language Understanding**

Fall and spring. 2 credits. C. Cardie.

**CS 7970 Seminar in Artificial Intelligence**

Fall and spring. 2 credits.

**EDUC 6140 Gender, Context, and Epistemological Development (also FGSS 6240)**

Fall. 3 credits. D. Schrader.

**HD 6330 Language Acquisition Seminar (also COGST/LING 6633)**

Fall. 1-4 credits. Prerequisite: COGST/HD/LING/PSYCH 4360 or equivalent. B. Lust.

**[LING 6609 Second Language Acquisition and the Asian Languages (also ASIAN 6610)]**

Fall. 4 credits. Prerequisite: LING 4414-4415. Next offered 2010-2011. Y. Shirai.]

**LING 6633 Language Acquisition Seminar (also COGST/HD 6330)**

Fall. 1-4 credits. Prerequisite: COGST/HD/LING/PSYCH 4360 or equivalent. B. Lust.

**LING 6688 Connectionist Psycholinguistics (also COGST/LING 4428, PSYCH 4280/6280)**

Fall. 3 credits. Offered alternate years. M. Christiansen.

**LING 7700 Graduate Seminars****MATH 6810 Logic**

Spring. 4 credits.

**MATH 7810-7820 Seminar in Logic**

Fall and spring. 4 credits each.

**MATH 7880 Topics in Applied Logic**

Fall. 4 credits.

**NBA 6630 Managerial Decision Making**

Fall. 3 credits. J. Russo.

**PHIL 7000 Graduate Seminars****[PSYCH 5500 Special Topics in Cognitive Science (also COGST 5500)]**

Spring. 4 credits. Next offered 2010-2011.]

**PSYCH 6140 Cognitive Psychology (also COGST 6140)**

Spring. 5 credits. S. Edelman.

**PSYCH 6180 Psychology of Music (also PSYCH 4180)**

Fall. 4 credits. C. Krumhansl.

**PSYCH 6210 Behavioral and Brain Sciences (BBS)**

Fall and spring. 4 credits each semester.

**PSYCH 6270 Evolution of Language****[PSYCH 6280 Connectionist Psycholinguistics (also COGST/PSYCH 4280, LING 4428/6628)]**

Fall. 3 credits. Next offered 2010-2011. M. Christiansen.]

**PSYCH 6310 Effects of Aging on Sensory and Perceptual Systems (also BIONB 4210, PSYCH 4310)**

Fall. 3 or 4 credits. B. Halpern.

**PSYCH 6650 Topics in High-Level Vision: Embodied Cognition (also COGST/PSYCH 4650, CS 3920)**

Spring. 4 credits. S. Edelman and M. Goldstein.

**PSYCH 6830 Affects and Cognition (also NRE 5070)**

Fall. 4 credits. A. M. Isen.

**PSYCH 6910 Research Methods in Psychology (also COGST 4910/6910, PSYCH 4910)**

Spring. 4 credits. V. Zayas.

**PSYCH 7160 Auditory Perception (also PSYCH 3160)**

Spring. 4 credits. C. Krumhansl.

## COLLEGE SCHOLAR PROGRAM

K. Gabard, director (55 Goldwin Smith Hall, 255-5792)

The College Scholar Program is described in the introductory section of Arts and Sciences.

**COLLS 3970 Independent Study—Senior Project**

Fall or spring. 1-4 credits. Prerequisite: permission of program office.

**COLLS 4990 Honors Research**

Fall or spring. 1-8 credits; max. 8 credits may be earned for honors research. Prerequisite: permission of program director. Each participant must submit brief proposal approved by honors committee.

## COMPARATIVE LITERATURE

N. Saccamano, chair (247 Goldwin Smith Hall), N. Melas, director of undergraduate studies (247 Goldwin Smith Hall); J. Monroe, director of graduate studies (247 Goldwin Smith Hall); F. Ahl, A. Banerjee, C. Carmichael, D. Castillo, C. Chase, W. Cohen, J. Culler, B. de Bary, L. Dubreuil, L. Ferri, P. Hohendahl, G. Holst-Warhaft, W. J. Kennedy, D. LaCapra, P. Liu, B. Maxwell, T. McNulty, N. Melas, J. Monroe, T. Murray, N. Saccamano, N. Sakai, W. Sayers. Emeritus: D. Grossvogel, W. Holdheim, E. Rosenberg, L. Waugh. Also cooperating: G. Arching, C. Boyce Davies, T. Campbell, M. I. Dadi, P. Gilgen, E. Hanson, R. Mas, B. Massumi, P. McBride, C. Robics, D. Rubenstein, A. Schwarz, D. Schwarz, D. Starr, S. Toorawa, G. Waite, A. Weiner, H. Yan.

The Department of Comparative Literature provides a broad range of courses in European and non-European literature as well as visual and media studies. Courses stress significant authors, themes, problems, styles, genres, historical periods, and theoretical perspectives. In cooperation with related departments in the humanities, the departmental offerings reflect current interdisciplinary approaches to literary study: hermeneutics, semiotics, deconstruction, cultural criticism, Marxism, reception aesthetics, feminism, and psychoanalysis.

## The Major

The Department of Comparative Literature provides a broad range of courses in European as well as non-European literatures. Courses devoted to literary studies variously stress significant authors, themes, problems, genres, historical periods, and theoretical perspectives. The Department also offers an array of courses in visual and media studies and enables the study of literature in relation to the history and theory of film, video, and other arts, as well as media. In cooperation with related departments in the humanities, the department encourages the interdisciplinary study of literature—in conjunction with anthropology, history, philosophy, sexuality studies, psychology, sociology, and so forth. The course offerings reflect current theoretical approaches to literature, media, and the arts—hermeneutics, semiotics, deconstruction, cultural criticism, Marxism, postcolonialism, reception aesthetics, feminism, and psychoanalysis.

## Requirements for the Major

All majors in Comparative Literature are expected to have completed 10 courses, half of which must be devoted to the study of works in cultures other than English in their original languages.

Five of these courses must be taken in the Department of Comparative Literature. One of these must be a Core Course, to be taken in the junior or the senior year. The designated core courses change each semester (for 2009-2010, COML 4220 [fall], COML 4020 [spring]).

Students must earn a minimum grade of C for a course to be counted toward the major. If elected, an honors essay will also count as one of these required five courses.

An honors essay (COML 4930 [fall], COML 4940 [spring]) of roughly 50 pages is optional. It is to be written during the senior year under the direction of a faculty member, preferably from within the department, who has agreed to work in close cooperation with the student. Students are urged to begin research on their

thesis topic during the summer preceding their senior year.

Students who elect to do a double major with another literature department may count up to three courses from that major toward their requirements in Comparative Literature.

The department encourages students to study abroad in pursuit of their cultural and linguistic interests, and the number of courses that may be counted toward the major will be determined in consultation with the faculty advisor and with the approval of the director of undergraduate studies.

The major enables students to pursue this commitment to a comparative study that includes a substantial non-English component by offering two tracks.

- A. **Comparative Literary Studies.** This track is designed for students who wish to place greater emphasis on literary study in their course work. Students who select this track are required to complete:
1. Five courses in Comparative Literature at the 2000 level and above.
  2. Five courses in literature or other areas of the humanities at the 2000 or higher level, to be taken in one or more foreign literature departments. Texts must be read in the original language. A student may offer one advanced-level foreign language course (conversation, composition, etc.) toward fulfilling this requirement.
- B. **Literary, Visual, and Media Studies.** This track is designed for students who wish to pursue their comparative study of literature and theory by integrating rigorous work on film, video, or other arts and media. Students who select this track are required to complete:
1. Four courses in literary study at the 2000 or higher level offered by the Department of Comparative Literature or other humanities departments or programs.
  2. Six courses in visual arts or media studies at the 2000 or higher level offered by the Department of Comparative Literature or other humanities departments or programs.

The following guidelines might be used to determine whether a course in Literary, Visual, and Media Studies may be counted toward the five courses in non-English cultural study required of all majors. Where the media involve a large component of speech or writing (such as film, video, or hypertext), the student would need to work with this material in the original foreign language. Where text or speech in a foreign language is peripheral in a course that focuses on visual material (such as art or architecture) from non-English cultures, the student would need to draw on primary and secondary materials in a foreign language for oral reports, papers, and so forth. Because of the flexibility and interdisciplinary range of this track, students who select it should work closely with their faculty advisor to organize a coherent plan of study and to determine, with the approval of the Director of Undergraduate Studies, which courses satisfy the foreign language requirement of the major.

## Honors

A student who completes the requirements for the major with a minimum grade point average of B+ is eligible for the degree of bachelor of arts with honors in Comparative Literature. The department bases its decision on the students achieving grades of at least B+ on the senior essay, in course work for the major, and in their overall academic performance at Cornell.

## First-Year Writing Seminars

Most 1000-level courses may be used toward satisfying the first-year writing seminar requirements. See "John S. Knight Institute for Writing in the Disciplines" for a full description of the first-year seminar program.

## Courses

### COML 2000 Introduction to Visual Studies (also ENGL 2920, VISST/ARTH 2000) (LA-AS)

Spring. 4 credits. M. I. Dadi.  
For description, see VISST 2000.

### [COML 2010 Great Books # (LA-AS)

Fall. 4 credits. COML 2010 and 2020 may be taken independently of each other.  
Next offered 2010–2011. Staff.]

### COML 2020 Great Books (LA-AS)

Spring. 4 credits. A. Banerjee.  
The course traces the evolution of the story of the road as theme, trope, and organizing principle of seminal books from the Renaissance to the postmodern. Through readings of Rabelais, Cervantes, Swift, Sterne, Twain, Gogol, Conrad, Hemingway, Nabokov, and Kerouac, we will explore how literary adventures structure our experience of the world.

### COML 2030 Introduction to Comparative Literature (LA-AS)

Spring. 4 credits. P. Liu.  
The course is intended to answer the question persistently asked by undergraduates: "What is Comparative Literature, anyway?" We will learn about different approaches to Comparative Literature and study the literatures of five different national/historical traditions: (Kafka, Faulkner, Lu Xun, Plautus, and Murakami). We will also read philosophical writings and works of literary criticism and ask three questions: (1) Why do Comparatists want to learn foreign languages and work with texts in the original? (2) How do we compare cultures and texts? (3) Is there such a thing as "world literature"? Writing assignments will include critical essays, short response papers, and creative projects.

### COML 2040 Global Fictions (CA-AS)

Spring. 4 credits. N. Melas.  
This course will be an introduction and an inquiry into global perspectives on fiction. Can the reading of fiction point us toward becoming citizens of the world? How might we know this world? How might we imagine it? We will consider the condition of the stranger in this global era as well as construct a geography of reading. Readings will be drawn mainly but not only from the contemporary period and outside Europe. Readings will change depending on instructor but may include works of Rushdie, Marquez, Conde, Munif, Castellanos, Oe, Ngugi, Wolf, Kincaid, and Homer.

### [COML 2050 Introduction to Poetry (LA-AS)

Fall. 4 credits. Next offered 2010–2011.  
W. J. Kennedy.]

### [COML 2150 Comparative American Literatures (also AMST 2150) (LA-AS)

Fall. 4 credits. Next offered 2011–2012.  
B. Maxwell.]

### COML 2200 Thinking Surrealisms (also ARTH 2019, VISST 2190) (LA-AS)

Fall. 4 credits. B. Maxwell.  
Borrowing its title from a formulation of the Marxist philosopher Ernst Bloch, and beginning from the "forays of demoralization" instigated by the Dadas, who bequeathed to surrealism the precious gift of unreconciliation to the given, this course will range over the protean expressiveness of several surrealist movements of the last century. The inception of surrealist precept and practice in Paris in the mid-1920s will be a consideration, perhaps only slightly more central to the course than the explicitly anti-fascist political phase of the 1930s and 40s; the supplementation of Parisian surrealism by Caribbean, Mexican, African American, Quebecois, and Mauritian writers and artists; the renegade practice of Hans Bellmer and the unschooled surreality of Eugene Atget; the reflections of and on surrealism by Walter Benjamin, Ernst Bloch, and Theodor W. Adorno; the relations of surrealism to the Situationist International; and the recent critiques of surrealism in fiction (Milan Kundera) and scholarship (Hal Foster). Throughout, the course will ask what the proliferation of "thinking surrealisms" meant to 20th-century culture and politics. All readings in English.

### COML 2270 Life and Love in Two Languages (LA-AS)

Fall. 4 credits. N. Melas.  
The course explores the multiple and fragmented worlds of the increasing number of those who speak, write, or live in more than one language. Examining a range of scholarship on bilingualism and multilingualism as well as multilingual fiction and film—from works written in second or third languages, to texts written in interlects between dominant and subjugated languages, to immigrant texts written between languages—we will study the limits and possibilities of multilingualism within particular texts, even as we survey more broadly the fate of multiple languages in this rapidly globalizing world. Authors range from canonical figures such as Joseph Conrad and Franz Kafka, and Chinua Achebe, to contemporary authors such as Luc Sante, Yoko Tawada, and Edwidge Danticat. All texts read in translation.

### COML 2330 Origins of the Social (also HIST 2330) (HA-AS)

Spring. 4 credits. C. Robics.  
For description, see HIST 2330.

### COML 2728 Introduction to Modern Middle Eastern Literature (also NES 2728)

Spring. 3 credits. D. Starr.  
For description, see NES 2728.

### COML 2754 Introduction to Near Eastern Civilizations: The Literature of Prophets, Princes, and Poets (also NES 2754) @ # (LA-AS)

Fall. 3 credits. S. Toorawa.  
For description, see NES 2754.

### [COML 3020 Literature and Theory (also ENGL 3020) (LA-AS)

Fall. 4 credits. Next offered 2010–2011.  
J. Culler.  
For description, see ENGL 3020.]

**[COML 3040 Europe and Its Others: An Introduction to the Literature of Colonialism @ (LA-AS)**

Fall. 4 credits. Next offered 2010–2011. N. Melas.]

**COML 3150 Literature and Media in Japan (also ASIAN/VISST 3318)**

Fall. 4 credits. B. de Bary.  
For description, see ASIAN 3318.

**COML 3260 Christianity and Judaism (also RELST 3260) # (LA-AS)**

Spring. 4 credits. C. Carmichael.  
Study of the New Testament as a product of the first-century Palestinian and Hellenistic Judaism. Other text (also in translation): *The Passover Haggadah*.

**COML 3280 Literature of the Old Testament (also RELST 3280) @ # (LA-AS)**

Fall. 4 credits. C. M. Carmichael.  
Analysis of small sections of well-known material for in-depth discussion.

**COML 3300 Political Theory and Cinema (also GERST 3550, GOVT 3705, FILM 3290) (CA-AS)**

Spring. 3 credits. G. Waite.  
For description, see GERST 3550.

**COML 3440 The Tragic Theatre (also CLASS 3645, THETR 3450) # (LA-AS)**

Spring. 4 credits. F. Ahl.  
For description, see CLASS 3645.

**COML 3480 Shakespeare and Europe (also ENGL 3490) # (LA-AS)**

Fall. 4 credits. W. J. Kennedy.  
In their own times, Shakespeare's plays registered a strong interest in the culture and society of Renaissance Europe beyond England. In later times, they cast a powerful spell over culture and society in 19th- and 20th-century Europe. This course will examine their debts to and influences upon continental drama. Readings will focus upon Shakespeare's plays in relation to Italian comedy, early French tragedy, and plays by Friedrich Schiller, Bertolt Brecht, and Luigi Pirandello.

**COML 3550 Decadence (also ENGL/FGSS 3550) (LA-AS)**

Spring. 4 credits. E. Hanson.  
For description, see ENGL 3550.

**[COML 3620 The Culture of the Renaissance II (also ARTH 3420, ENGL 3250, FREN 3620, HIST 3640, MUSIC 3242) # (CA-AS)**

Fall. 4 credits. Required F sec. Next offered 2010–2011. W. J. Kennedy.]

**COML 3630 The European Novel # (LA-AS)**

Fall. 4 credits. N. Saccamano.  
This course will survey the history of the novel until the mid-19th century, focusing on the social, literary, and philosophical significance of its narrative forms. Topics to be discussed: the novel as a site of conflict between "high" and "low" culture; the relation of fictional narrative to historical and autobiographical narrative; the gender politics and class ideology of romance. Texts may include *Lazarillo de Tormes* or Cervantes' *Don Quixote*, Fielding's *Tom Jones*, Laclós's *Dangerous Liaisons*, Goethe's *The Sorrows of Young Werther*, Brontë's *Wuthering Heights*.

**[COML 3640 The European Novel # (LA-AS)**

Spring. 4 credits. Next offered 2010–2011. Staff.]

**[COML 3650 Contemporary Fiction @ (LA-AS)**

Spring. 4 credits. Next offered 2011–2012. B. Maxwell.]

**COML 3701 Global Martial Arts Film and Literature (also ASIAN 3370, FILM 3701)**

Spring. 4 credits. Required: weekly film viewings W 7:30–9:30 p.m.; enrollment in sec 101. P. Liu.

With recent blockbusters such as *Kill Bill*, *Kung Fu Hustle*, *Hero*, and *The Matrix*, a spiritual and bodily discipline from medieval Asia called "martial arts" has turned into an object of popular consumption in transnational cinema. This course studies the Asianization of global postmodern culture by comparing the historical routes, institutional bases, and ideologies of representations of martial arts in film and literature. Our questions will include the historical origins of martial arts and martial arts cinema; differences between "wuxia" and "kung fu"; contemporary Hong Kong, Taiwan, and Hollywood popular culture; Orientalism, race, and masculinity in transnational cinema; kinship, rites, honor, and duty in Chinese society; kung fu as philosophy; and the relation of martial arts to women, ethics, nation, work, and pleasure.

**COML 3723 The Arabian Nights Now and Then (NES 3723/6723) @ # (LA-AS)**

Fall. 3 credits. S. Toorawa.  
For description, see NES 3723.

**COML 3735 Puppetry: Comic, Dramatic, and Political**

Spring. 4 credits. B. Maxwell.  
Puppetry is eminently suited to cross-cultural, cross-generic comparative aesthetic study, and such an inquiry is what I propose. It will perhaps need little discussion if I also mention that puppetry might well be the most frequently used metaphor in characterizations of political life and operations, including electoral politics, but also authoritarian systems. At the same time, puppetry as practice, not metaphor, has been an immense, longstanding, and perennially effective reservoir for political protest. I would plan to include throughout the course attention to aesthetic and political theories that have illuminated puppetry (and in some cases might be illumined by it: a puppet theatre debate between feminists, Marxists, and deconstructionists, refereed by a puppet homeless person, for example).

**COML 3799 Imagining the Other, Jews and Arabs in Contemporary Literature and Film (also NES/JWST 3799) @ (LA-AS)**

Fall. 3 credits. D. Starr.  
For description, see NES 3799.

**COML 3800 Poetry and Poetics of Americas (also AMST 3820, LATA/SPAN 3800) (LA-AS)**

Fall. 4 credits. J. Monroe.  
As globalization draws the Americas ever closer together, reshaping our sense of a common (uncommon) American culture, what claims might be made for a distinctive, diverse "poetry of the Americas? How might we characterize its dominant forms and alternative practices? What shared influences, affiliations,

concerns and approaches might we find and what differences emerge? Ranging across North and South America, Central America and the Caribbean, this course will place in conversation such figures as Whitman, Neruda, Poe, Borges, Dickinson, Martí, Stein, Darío, Williams, Mistral, Pound, Paz, Olson, Burgos, Rich, Césaire, Walcott, Glissant, Oppen, Brathwaite, Parra, Ashbery, Zurí, Bernstein, Harjo, Perdomo, Cisneros, Castillo, and Vicuna. All texts not written in English will be available in translation as well as in the original.

**COML 3840 Art of Historical Avant-Garde (also GERST/ROMS 3770, ARTH/VISST 3720) (LA-AS)**

Spring. 4 credits. P. McBride.  
For description, see GERST 3770.

**COML 3850 Partition/Fiction and Film (also ASIAN 3389, VISST 3851)**

Fall. 4 credits. A. Banerjee.  
The Partition of 1947 remains the defining moment of the birth of the nation in India, Pakistan, and Bangladesh. While academic discourse has only recently begun to tackle the human dimensions of this incredibly traumatic event—with an estimated million dead and twelve million displaced—Partition has been a rich subject for literature and cinema over the last half century. Now more than ever before, it continues to serve as a fulcrum in creating narratives of national, religious, linguistic, and gendered identity. The course surveys fictional and filmic treatments of the Partition from 1947 to 2007.

**[COML 3860 Literature and Film of South Asia (also ASIAN 3387, VISST 3870) @ (CA-AS)**

Spring. 4 credits. Next offered 2010–2011. A. Banerjee.]

**[COML 3901 Poetry's Image**

Spring. 4 credits. Next offered 2010–2011. J. Monroe.]

**[COML 3980 Theorizing Gender and Race in Asian Histories and Literatures (also ASIAN 3388/6688, COML 6680, FGSS 3580/6580) @ (CA-AS)**

Spring. 4 credits. Next offered 2010–2011. N. Sakai.]

**[COML 4000 Forms of the Novel (LA-AS)**

Fall. 4 credits. Next offered 2010–2011. P. Liu.]

**COML 4020 Dis/abled Bodies: Literature, Philosophy, and Culture**

Spring. 4 credits. Core course for COML majors. Limited to 15 students. A. Weiner.  
This seminar will question ideas about what constitutes a "normal" or "able" body, seeking instead to respond to literary, philosophical, and cultural articulations of physical, mental, emotional, and sensory differences. We will engage various debates in disability studies in order to challenge assumptions and posit new models of imagining the body, its interpretive and performative spaces, and the ethical valences of its transgressions. We'll also consider the possibilities and problems of what a "rights"-based discourse means for (re)defining disability socially and politically. Literary works from Sophocles, Shakespeare, Mary Shelley, Kafka, Faulkner, and Coetzee will be placed in dialogue with critical and theoretical readings from Freud, Kristeva, Foucault, Elaine Scarry, Jean-Luc Nancy, Judith Butler, Donna Haraway, Rosemarie Garland Thomson, and Tobin Siebers.

**COML 4065 Life as We Know It: Readings in the BioPolitical Paradigm (also SHUM/ITAL 4822)**

Fall. 4 credits. T. Campbell.  
For description, see SHUM 4822.

**COML 4066 Secular Disaffections: On Islam and the Politics of Emotion (also SHUM/RELST 4823, NES 4923)**

Fall. 4 credits. R. Mas.  
For description, see SHUM 4823.

**[COML 4100 Science, Technology, and Culture (also STS 4101) (CA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
A. Banerjee.]

**COML 4115 Link, Network, Nexu (also FREN/SHUM 4936, GOVT 4748, STS 4361)**

Spring. 4 credits. B. Massumi.  
For description, see SHUM 4936.

**COML 4190–4200 Independent Study**

4190, fall; 4200, spring. Variable credit. COML 4190 and 4200 may be taken independently of each other. Applications available in 247 Goldwin Smith Hall. Students must prepare a proposal for independent study (proposal forms are available in the Office of Undergraduate Admissions and Advising, 55 and 172 Goldwin Smith Hall).

**COML 4220 Literature and Oblivion (LA-AS)**

Fall. 4 credits. Core course for COML majors. Limited to 15 students. N. Melas. This course will attempt a critical study of the powers of art against oblivion. We will start with the paradox whereby poetic language necessarily destroys that which it seeks to preserve, just as a monument substitutes for the loss object it commemorates. A central concern will be the relation of art to history, particularly when art's negations encounter powerful worldly negations, such as those surrounding gender difference and colonial domination. Framed by Homer's *Iliad* and Derek Walcott's "postcolonial" Caribbean epic *Omeros*, the readings will also be a comparative exercise in reading across time and space and will include theoretical texts (Plato, Hegel, Nietzsche, Blanchot, Benjamin, Patterson) alongside literature. Particular attention will be directed to improving critical writing skills.

**COML 4250 Marx, Nietzsche, Freud (also GERST 4150, GOVT 4735) # (CA-AS)**

Fall. 4 credits. G. Waite.  
For description, see GERST 4150.

**COML 4260 New Testament Seminar (also RELST 4260) # (HA-AS)**

Spring. 4 credits. Limited to 15 students. C. Carmichael.  
Topic: Sex and religion in the Bible. Identification and discussion of problems in the New Testament. Discussing attitudes to sexuality in the Bible, we will examine in Old and New Testament texts the clash between ancestral behavior and subsequent laws, as well as the contrast between legal and religious ideas. Topics will include: marriage and divorce, incest, intermarriage, gender discrimination, guilt and shame, homosexuality, women and purity, sexual language and symbols. It should be possible to say something new about the topics and also, because of the perennial nature of the issues, to say something that is relevant to contemporary life.

**COML 4280 Biblical Seminar (also RELST 4280) # @ (HA-AS)**

Fall. 4 credits. Limited to 15 students. C. Carmichael.  
A study of how biblical ethical and legal rules (in Exodus, Leviticus, and Deuteronomy) comment on incidents in the biblical narratives (Genesis–2 Kings). The link between law and narrative enables us to observe in detail how ancient thinkers evaluate ethical and legal problems of perennial interest.

**COML 4290 Postcolonial Poetry and the Poetics of Relation (also COML 6350, ENGL 4840/6850, FREN/SPAN 4350/6350)**

Spring. 4 credits. Limited to 15 students. J. Monroe.  
What kinds of poetry might be usefully characterized as "postcolonial" and what are the stakes of such a designation? What relation do specific poetic features have to geopolitical, cultural, historical, economic circumstances, and to the condition(s) of what has come to be called the "postcolonial" in particular? With special reference to Edouard Glissant's influential concept of a "poetics of relation," attending as well to our own situatedness as readers—perhaps also, though not necessarily, as writers—of poetry within U.S. (and) academic context(s), this seminar will focus on Caribbean and U.S. poetry as especially fruitful sites for exploring a diversity of approaches to these and related questions concerning postcoloniality, poetry, community, language, culture, and identity.

**COML 4365 Caribbean Crossings (also COML 6365) (CA-AS)**

Spring. 4 credits. N. Melas.  
A critical overview of Caribbean literature in French, English, and Creole with particular attention to the historical, political and aesthetic nodes of connection and disconnection between them. Topics will include the differential cultures of the plantation system and forms of resistance to it, nationalist and anti-colonial movements, language and racial politics, local cultures in global flows. Reading knowledge of French helpful but not required.

**[COML 4380 Arendt, Morisaki, Weil (also ASIAN 4468/6668, COML 6240) (KCM-AS)]**

Spring. 4 credits. Limited to 20 students. Next offered 2010–2011. B. de Bary.]

**COML 4430 Cold War Aesthetics in East Asia (also ASIAN 4465)**

Fall. 4 credits. Limited to 15 students. P. Liu.  
This course is concerned with literature, music, film, and the Cold War in East Asia—the "partitioning" of China, Japan, and Korea into mutually hostile and temporally de-synchronized "zones" in the post-WWII era. How do aesthetic works explore this historical trauma and ideological rift? Beginning with the major historical and social scientific writings on the formation of "East Asia" as a region, we will study the shifting relations between U.S. and East Asian cultures through a comparison of two case studies: the creation of North Korea/South Korea, and the division/unification of Taiwan/China. We will compare Korean and Chinese histories of anti-Communism, responses to the legacy of Japanese colonialism, industries of popular culture, and the strategic positions of South Korea and Taiwan as U.S. security concerns.

**[COML 4500 Renaissance Poetry (also COML 6500, ENGL 6220, ITAL 4500/6500) # (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011. W. J. Kennedy.]

**COML 4515 Ariosto, Rabelais, Spenser (also COML 6515, ENGL/ROMS 4515/6515) (LA-AS)**

Fall. 4 credits. W. J. Kennedy.  
A study of competing claims between narrative forms and national ideologies in Ariosto's epic romance, *Orlando Furioso* (Italy, 1516–32); Rabelais's prose fiction, *Gargantua and Pantagruel* (France, 1532–52); and Spenser's allegorical epic, *The Faerie Queene* (England, 1590–96).

**[COML 4520 Renaissance Humanism (also COML 6520) # (LA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2010–2011. W. J. Kennedy.]

**[COML 4580 Narratives of Travel, Migration, and Exile (CA-AS)]**

Fall. 4 credits. Limited to 15 students. Next offered 2010–2011. A. Banerjee.]

**COML 4600 New York, Paris, Baghdad: Poetry of the City (also NES 4727, FREN 4080)**

Spring. 4 credits. S. Toorawa.  
For description, see NES 6727.

**COML 4675 Creativity and Constraints (also FREN 4520)**

Spring. 4 credits. T. McNulty.  
For description, see FREN 4520.

**[COML 4700 Translation and Cultural Difference (also ASIAN 4481) @ (KCM-AS)]**

Fall. 4 credits. Limited to 15 students. Next offered 2010–2011. N. Sakai.  
For description, see ASIAN 4481.]

**COML 4740 Topics in Modern European Intellectual and Cultural History (also HIST 4740, JWST 4674)**

Fall. 4 credits. Prerequisite: permission of instructor. D. LaCapra.  
Topic: History and the Human Animal. For description, see HIST 4740.

**[COML 4800 Baudelaire in the Lyric # (LA-AS)]**

Spring. 4 credits. Not offered 2010–2011. J. Culler.]

**[COML 4810 Studies in Gender Theory: Kinship and Embodiment (also FGSS 4800) (CA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2010–2011. P. Liu.]

**COML 4830 Imagining the Holocaust (also ENGL/JWST 4580, GERST 4570) (LA-AS)**

Spring. 4 credits. D. Schwarz.  
For description, see ENGL 4580.

**COML 4860 Contemporary Poetry and Poetics (also COML 6865, ENGL/SPAN 4880) (LA-AS)**

Fall. 4 credits. Limited to 15 students. J. Monroe.  
What gives contemporary poetry and poetics its resonance and value? What are its dominant features, audiences, and purposes? In an increasingly global, pervasively technological culture, what's become of such familiar distinctions as the "traditional" and the "experimental," the "mainstream" and the "alternative"? How does contemporary poetry situate itself among other genres, disciplines, discourses, and media? How are we to

understand its evolving public spheres and its relation to the central cultural and historical developments of our time? With special attention to poetry since 9/11, this seminar will explore these and related questions in a range of works that open onto the rich interplay of contemporary poetry and poetics with issues concerning personal and collective identity, language, and culture.

**COML 4900 Energy, Empire, Modernity (also COML 6900)**

Fall. 4 credits. Limited to 15 students. A. Banerjee.

The course examines steam, electricity, nuclear power, and petroleum at the juncture of coloniality and modernity. By juxtaposing literary, visual, philosophical, and social scientific treatments from the western/northern perspective with those from colonial and postcolonial ones, we will attempt to generate a critical vocabulary for the ways in which energy becomes the index of power in both the literal and figurative sense. Texts include Joseph Conrad's *Heart of Darkness*, Khushwant Singh's *Train to Pakistan*, Arundhati Roy's *Power Politics*, Abdelrehman Munif's *Cities of Salt*, Amos Tutuola's *The Palm-Wine Drinkard*, Andrei Tarkovsky's *Stalker*, and Stephen Gaghan's *Syriana*.

**COML 4930-4940 Senior Essay**

Fall and spring. 8 credits.

Times TBA individually in consultation with director of Senior Essay Colloquium. Approximately 50 pages to be written over the course of two semesters in the student's senior year under the direction of the student's advisor. An R grade is assigned on the basis of research and a preliminary draft completed in the first semester. A letter grade is awarded on completion of the second semester.

**COML 4960 Imagining the Mediterranean (also JWST/NES 4738) @ (LA-AS)**

Spring. 4 credits. G. Holst-Warhaft.

For description, see NES 4738.

**[COML 6020 Literature and Theory (also ENGL 6020)**

Fall. 4 credits. Next offered 2010-2011. J. Culler.]

**COML 6050 Contemporary Global Fiction (also ENGL 6830)**

Fall. 4 credits. Please prepare the assignment listed on the course's Blackboard site for the first meeting of the class, W, Sept. 2. W. Cohen.

The (mainly) post-1945 novel, understood as the first full instance of world literature. Emphasis on global transformations of a primarily European genre. Issues of form—realism, modernism, postmodernism—and of relations among languages, nations, social systems, and continents in the modern world system. Probable readings: Platonov, Hedayat, Borges, Borowski, Beckett, Manto, Achebe, Lispector, Nabokov, Salih, Calvino, Kiš, Devi, Murakami, Han Shaogong, and Morrison. Criticism by Jameson, Casanova, Moretti, Spivak, and others.

**COML 6051 Theory of the Theatre and Drama (also GERST 4310, THETR 4310/6310)**

Fall. 4 credits. H. Yan.

For description, see THETR 6310.

**COML 6160 Translation, in Theory (also ASIAN 6619, VISST 6190)**

Spring. 4 credits. B. de Bary.

For description, see ASIAN 6619.

**COML 6185 Introduction to Systems Theory (also GERST 6190)**

Fall. 4 credits. P. Gilgen.

For description, see GERST 6190.

**COML 6190-6200 Independent Study**

6190, fall; 6200, spring. Variable credit.

COML 6190 and 6200 may be taken independently of each other. Applications available in 247 Goldwin Smith Hall.

**COML 6235 Heidegger's Literature (also GERST 6650)**

Fall. 4 credits. A. Schwarz.

For description, see GERST 6650.

**[COML 6240 Arendt, Morisaki, Weil (also ASIAN 4468/6668, COML 4380)**

Spring. 4 credits. Next offered 2010-2011.

B. de Bary.]

**[COML 6300 Aesthetics in the 18th Century (also ENGL 6300)**

Fall. 4 credits. Next offered 2010-2011.

N. Saccamano.]

**COML 6333 Negrismo and Négritude: Modernism and the Emergence of Africanist Poetics and Politics in the Caribbean (also SPAN 6150)**

Fall. 4 credits. G. Aching.

For description, see SPAN 6150.

**[COML 6340 Deleuze and Lyotard: Aesthetics (also ENGL 6290, FREN 6720, VISST 6340)**

Spring. 4 credits. Next offered 2010-2011.

T. Murray.]

**COML 6350 Postcolonial Poetry and the Poetics of Relation (also COML 4290, ENGL 4840/6850, FREN/SPAN 6350)**

Spring. 4 credits. Limited to 15 students.

J. Monroe.

For description, see COML 4290.

**[COML 6360 Comparative Modernisms/ Alternative Modernities**

Fall. 4 credits. Limited to 15 students. Next offered 2010-2011. N. Melas.]

**COML 6365 Caribbean Crossings (also COML 4365)**

Spring. 4 credits. N. Melas.

For description, see COML 4365.

**[COML 6380 The 18th Century and the Emergence of Literary Modernity (also ASIAN 6626)**

Spring. 4 credits. Next offered 2010-2011.

N. Sakai.]

**[COML 6410 Derrida, Writing, and the Institution of Literature (also ENGL 4410/6420)**

Spring. 4 credits. Next offered 2010-2011.

J. Culler.]

**COML 6465 Black Feminist Theories (also ASRC/ENGL 6207)**

Fall. 4 credits. C. Boyce Davies.

For description, see ASRC 6207.

**[COML 6500 Renaissance Poetry (also COML 4500, ENGL 6220)**

Fall. 4 credits. Next offered 2010-2011.

W. J. Kennedy.]

**COML 6515 Ariosto, Rabelais, Spenser (also COML 4515, ENGL/ROMS 4515/6515)**

Fall. 4 credits. W. J. Kennedy.

For description, see COML 4515.

**[COML 6520 Renaissance Humanism (also COML 4520)**

Spring. 4 credits. Limited to 15 students.

Next offered 2010-2011. W. J. Kennedy.]

**COML 6675 Derrida and Philosophy of Hospitality (also GOVT 6675, HADM/ FREN 5590)**

Fall. 4 credits. D. Rubenstein and L. Shaffer.

For description, see GOVT 6675.

**[COML 6710 Transnational Imaginaries: Globalization and Culture**

Fall. 4 credits. Limited to 15 students. Next offered 2010-2011. N. Melas.]

**COML 6720 Topics in Modern European Intellectual and Cultural History (also HIST 6720)**

Fall. 4 credits. D. LaCapra.

For description, see HIST 6720.

**COML 6723 The Arabian Nights, Then and Now (also COML 3723, NES 3723/6723)**

Fall. 4 credits. S. Toorawa.

For description, see NES 6723.

**[COML 6791 Acoustic Horizons: Aesthetics and Politics of Sound in Theory, Film, and New Media (also ENGL 6791)**

Spring. 4 credits. Next offered 2010-2011. T. Murray.]

**COML 6792 Theory of the Lyric (also ENGL 6792)**

Fall. 4 credits. J. Culler.

For description, see ENGL 6792.

**COML 6820 Cultural Materialism and Geopolitics**

Fall. 4 credits. Limited to 15 students. P. Liu.

What is a "materialist" analysis of culture? Are the "material" and the "cultural" mutually exclusive? This course examines the foundational texts in "cultural materialism" (Marx, Lukacs, Gramsci, Althusser, Spivak, Jameson) and the implications of a dualistic construction of material vs. cultural life for geopolitical thinking. We will be interested in the different ways in which tropes of "matter" and "world" are appropriated to delineate new temporal and spatial relations in postcolonial conversations (Fanon, Said, Lye, Chatterjee, Gilroy). By paying special attention to debates about uneven development, the materiality of race and the body, and alternative modernities, we will seek to understand "materialism" itself as an overdetermined category in 20th-century political history.

**COML 6860 Althusser and Lacan (also FRLIT 6230, GERST 6860, GOVT 6790)**

Fall. 4 credits. G. Waite.

For description, see GERST 6860.

**COML 6865 Contemporary Poetry and Poetics (also COML 4860, ENGL/ SPAN 4880)**

Fall. 4 credits. J. Monroe.

For description, see COML 4860.

**COML 6900 Energy, Empire, and Modernity (also COML 4900)**

Fall. 4 credits. A. Banerjee.

For description, see COML 4900.

**[COML 6921 Digital Bodies, Virtual Identities (also ENGL 6960, THETR 6330)**

Fall. 4 credits. Next offered 2010-2011.

T. Murray.]

**[COML 6970 Cosmopolitanism (also ENGL 6970)**

Spring. 4 credits. Next offered 2010-2011. N. Saccamano.]

## COMPUTER SCIENCE

E. Tardos, chair; G. Bailey, K. Bala, D. Bindel, K. Birman, C. Cardie, R. L. Constable, D. Fan, P. Francis, J. Gehrke, C. Gomes, D. Greenberg, D. Gries, J. Halpern, J. E. Hopcroft, D. Huttenlocher, D. James, T. Joachims, J. Kleinberg, R. Kleinberg, C. Koch, D. Kozen, L. Lee, S. Marschner, A. Myers, R. Pass, F. B. Schneider, B. Selman, D. Shmoys, E. G. Sifer, N. Snavely, R. Teitelbaum, C. Van Loan, H. Weatherspoon, R. Zabih

The Department of Computer Science is affiliated with both the College of Arts and Sciences and the College of Engineering. Students in either college may major in Computer Science. For details, visit our web site at [www.cs.cornell.edu/ugrad](http://www.cs.cornell.edu/ugrad).

### The Major

CS majors take courses covering algorithms, data structures, logic, programming languages, systems, and theory. Electives include artificial intelligence, computer graphics, computer vision, cryptography, databases, networks, and scientific computing. Requirements include:

- MATH 1110, 1120 (or 1220) and 2210 or (MATH 1910, 1920, and 2940)
- two semesters of introductory computer programming (CS 1110 and CS 2110 or CS 1112, 1130, and 2110). CS 1114 is an honors-level substitute for CS 1112.
- a five-course computer science core (CS 2800, 3110, 3410, or 3420; 4410, and 4820)
- three 4000+ level computer science electives (CS 4999 not allowed; CS 3220 and CS 3810 allowed). If CS 2800 was taken before Spring 2009, CS 3810 or CS 4810 must be either one of these electives or one of the technical electives (see below).
- a computer science project course (CS 4121, 4321, 4411, 4450, 4621, 4701, 5150, 5410, or 6670)
- three 3000+ level courses (only one of ENGRD 2700 or MATH 2930 may be counted) that are technical in nature, as determined by the major.
- a three-course “external specialization” in a topic area other than computer science, all numbered 3000 level or greater
- one of BTRY 4080, ECE 3100, ECON 3190, ENGRD 2700, MATH 4710. CS majors in the Engineering College can use ECE 3100 as a substitute for ENGRD 2700 in satisfying the engineering distribution requirements.
- an elective requirement consisting of a single 3+ credit course or a combination of courses coming to 3+ credits total. Roughly speaking, all academic courses (inside or outside of CS) count. No PE courses, courses numbered 10xx, or ROTC courses below the 3000 level are allowed.

All the major electives described above must be courses of at least 3 credits, with the exception of the CS project course, which is at least 2 credits, or as otherwise specified.

Additionally, students’ course selections must satisfy the requirements of at least one “vector” or CS-centric specialization, defined by the department. The set of vectors at the time of this writing include artificial intelligence, computational science and engineering, data-intensive computing,

graphics, human-language technologies, network science, programming languages, security and trustworthy systems, software engineering/code warrior, systems, theory, and a broad “Renaissance” vector. See [www.cs.cornell.edu/ugrad](http://www.cs.cornell.edu/ugrad) for the requirements of each vector.

The program is broad and rigorous, but it is structured in a way that supports in-depth study of outside areas. Intelligent course selection can set the stage for graduate study and employment in any technical area and any professional area such as business, law, or medicine. With the advisor, the Computer Science major is expected to put together a coherent program of study that supports career objectives and is true to the aims of liberal education.

### Admission

All potential affiliates are reviewed on a case-by-case basis relative to the following criteria:

- a grade of C or better in all CS courses and MATH courses
- a GPA of 2.5 or better in CS 2110 and 2800.
- a GPA of 2.5 or better in MATH 1120 (or 1220 or 1920) and CS 2800.

Courses used in the affiliation GPA computations may be repeated if the original course grade was below a C. The most recent grade will be used for all repeated courses. Qualifying courses must be taken at Cornell.

Departmental honors in Computer Science is granted to students who have maintained a cumulative GPA greater than or equal to 3.5 and completed a set of coherent courses and research activities that satisfy the following requirements:

- at least one CS course (at least 3 credit hours) at or above the 5000 level with a grade of A– or better; no seminars.
- at least two 3-credit semesters of CS 4999 (Independent Research) with a CS faculty member, with grades of A– or better each semester.

Latin Designations (appended to the degree), awarded by the field of Computer Science for all who qualify as stated above, are based on the final cumulative GPA, as follows:

- *cum laude*, 3.50 or above
- *magna cum laude*, 3.75 or above
- *summa cum laude*, 4.00 or above

**Note:** Honors courses may not be used to satisfy the CS 4000+ elective requirement, the CS project requirement, the technical electives, or the 3+ credit elective. See the CS undergraduate web site for more information on eligibility: [www.cs.cornell.edu/ugrad](http://www.cs.cornell.edu/ugrad).

### Computing in the Arts Undergraduate Minor

A minor in Computing in the Arts with an emphasis on computer science is available both to Computer Science majors and to students majoring in other subjects. For more information, see p. 531.

### Courses

For complete course descriptions, see “Computer Science” under “Computing and Information Science (CIS).”

### CS 1109 Fundamental Programming Concepts

Summer. 2 credits. Pre-freshman standing or permission of instructor. Prerequisites: none. S–U grades only.

### CS 1110, 1112 Introduction to Computer Programming (MQR)

Fall, spring, summer. 4 credits. *Students may not receive credit for CS 1110, 1112, 1113, 1114 and BEE 1510.*

CS 1110, CS 1112, and CS 1114 are all described in the “Computing and Information Science (CIS)” section.

### CS 1130 Transition to Object-Oriented Programming

Fall, spring. 1 credit. Prerequisite: one course in programming. S–U grades only.

### CS 1132 Transition to Matlab

Fall, spring. 1 credit. Prerequisite: one course in programming. S–U grades only.

### CS 1300 Introductory Design and Programming for the Web (also INFO 1300)

Fall. 4 credits.

### CS 1610 Computing in the Arts (also CIS/ ENGR 1610, DANCE 1540, FILM 1750, MUSIC 1465, PSYCH 1650) (LA-AS)

Fall. 3 credits. Recommended: good comfort level with computers and some of the arts.

### CS 1620 Visual Imaging in the Electronic Age (also ARCH 3702, ART 1700, CIS/ ENGR 1620)

Fall. 3 credits.

For description, see ART 1700.

### CS 1710 Introduction to Cognitive Science (also COGST 1101, LING 1170, PHIL 1910, PSYCH 1102) (KCM-AS)

Fall, summer. 3 credits.

For description, see COGST 1101.

### CS 2022 Introduction to C

Fall, spring, usually weeks 1–4. 1 credit. Prerequisite: one programming course or equivalent programming experience. Credit granted for both CS 2022 and 2024 only if 2022 taken first. S–U grades only.

### CS 2024 C++ Programming

Fall. 2 credits. Prerequisite: one programming course or equivalent programming experience. Students who plan to take CS 2022 and 2024 must take 2022 first. S–U grades only.

### CS 2026 Introduction to C #

Spring, usually weeks 5–8. 1 credit. Prerequisite: CS/ENGRD 2110 or equivalent experience. S–U grades only.

### CS 2042 Unix Tools

Fall, usually weeks 5–8. 1 credit. Prerequisite: one programming course or equivalent programming experience. S–U grades only.

### CS 2044 Advanced UNIX Programming and Tools

Spring, usually weeks 5–8. 1 credit. Prerequisite: CS 2042 or equivalent. S–U grades only.

### CS 2110 Object-Oriented Programming and Data Structures (also ENGRD 2110) (MQR)

Fall, spring, summer. 3 credits. Prerequisite: CS 1110, CS 1130, or CS 1113 (CS 1112 if completed before fall 2007) or equivalent course in Java or C++.

**CS 2300 Intermediate Design and Programming for the Web (also INFO 2300)**

Spring. 3 credits. Prerequisite: CS 1300 strongly recommended.

**CS 2800 Discrete Structures (MQR)**

Fall, spring. 3 credits. Pre- or corequisite: one programming course or permission of instructor.

**CS 2850 Networks (also ECON/INFO 2040, SOC 2090) (SBA-AS)**

Spring. 4 credits. Prerequisites: none.

**CS 3110 Data Structures and Functional Programming (MQR)**

Fall, spring. 4 credits. Prerequisite: CS 2110 and 2111 or equivalent programming experience. Pre- or corequisite: CS 2800. Should not be taken concurrently with CS 3410 or 3420.

**CS 3220 Introduction to Scientific Computation (also ENGRD 3220)**

Spring, summer. 3 credits. Prerequisites: CS 1112 or 1132 and MATH 2220, 2230, or 2940.

**CS 3300 Data-Driven Web Applications (also INFO 3300)**

Spring. 3 credits. Prerequisite: CS/ENGRD 2110 and (CS 2300 or permission of instructor). CS majors may use only one of the following toward their degree: CS/INFO 3300 or CS 4321.

**CS 3410 Systems Programming**

Spring. 4 credits. Prerequisites: CS 2110 or equivalent programming experience. Should not be taken concurrently with CS 3110.

**CS 3420 Computer Organization (also ECE 3140)**

Spring. 4 credits. Prerequisite: CS 2110 or ENGRD 2300. Should not be taken concurrently with CS 3110.

**CS 3740 Computational Linguistics (also COGST 4240, LING 4424) (MQR-AS)**

Fall or spring. 4 credits. Recommended: CS 2042.

**CS 3810 Introduction to Theory of Computing**

Fall, summer. 3 credits. Prerequisite: CS 2800 or permission of instructor.

**CS 4120 Introduction to Compilers**

Fall. 3 credits. Prerequisites: CS 3110 or permission of instructor and CS 3410 or 3420. Corequisite: CS 4121.

**CS 4121 Practicum in Compilers**

Fall. 2 credits. Corequisite: CS 4120.

**CS 4210 Numerical Analysis and Differential Equations (also MATH 4250) (MQR)**

Fall. 4 credits. Prerequisites: MATH 2210 or 2940 or equivalent, one additional mathematics course numbered 3000 or above, and knowledge of programming.

**CS 4220 Numerical Analysis: Linear and Nonlinear Equations (also MATH 4260) (MQR)**

Spring. 4 credits. Prerequisites: MATH 2210 or 2940 or equivalent, one additional mathematics course numbered 3000 or above, and knowledge of programming.

**CS 4300 Information Retrieval (also INFO 4300)**

Fall. 3 credits. Prerequisite: CS 2110 or equivalent.

**CS 4302 Web Information Systems (also INFO 4302)**

Spring. 3 credits. Prerequisites: CS 2110 and some familiarity with web site technology.

**CS 4320 Introduction to Database Systems**

Fall. 3 credits. Prerequisites: CS 3110 (or 2110, 2111, and permission of instructor).

**CS 4321 Practicum in Database Systems**

Fall. 2 credits. Pre- or corequisite: CS 4320. CS majors may use only one of the following toward their degree: CS/INFO 3300 or CS 4321.

**CS 4410 Operating Systems**

Fall. 3 credits. Prerequisite: CS 3410 or 3420.

**CS 4411 Practicum in Operating Systems**

Fall. 2 credits. Corequisite: CS 4410.

**CS 4420 Computer Architecture (also ECE 4750)**

Fall. 4 credits. Prerequisites: ENGRD 2300 and CS 3420/ECE 3140.

**CS 4620 Introduction to Computer Graphics (also ARCH 3704)**

Fall. 3 credits. Prerequisite: CS/ENGRD 2110.

**CS 4621 Computer Graphics Practicum**

Fall. 2 credits. Pre- or corequisite: CS 4620.

**CS 4700 Foundations of Artificial Intelligence**

Fall. 3 credits. Prerequisites: CS 2110 and 2800 (or equivalent).

**CS 4701 Practicum in Artificial Intelligence**

Fall. 2 credits. Pre- or corequisite: CS 4700.

**CS 4740 Introduction to Natural Language Processing (also COGST 4740, LING 4474)**

Spring. 4 credits. Prerequisite: CS 2110.

**CS 4780 Machine Learning**

Spring. 4 credits. Prerequisites: CS 2110, CS 2800, or basic probability theory, and basic knowledge of linear algebra.

**[CS 4782 Probabilistic Graphical Models (also BTRY 4790)**

Fall. 4 credits. Prerequisites: probability theory (BTRY 4080 or equivalent), programming and data structures (CS 2110 or equivalent); a course in statistical methods is recommended but not required (BTRY 4090 or equivalent). Next offered 2010-2011.]

**CS 4812 Quantum Info Processing (also PHYS 4481/7681) (PBS)**

Spring. 3 credits. Prerequisite: familiarity with theory of vector spaces over complex numbers.

For description, see PHYS 4481.

**CS 4820 Introduction to Analysis of Algorithms**

Spring, summer. 4 credits. Prerequisites: CS 2800 and 3110.

**[CS 4830 Introduction to Cryptography**

Fall. 4 credits. Prerequisites: CS 2800 (or equivalent), mathematical maturity, or permission of instructor. Next offered 2010-2011.]

**CS 4850 Mathematical Foundations for the Information Age**

Spring. 4 credits. Prerequisite: mathematical maturity.

**CS 4860 Applied Logic (also MATH 4860) (MQR)**

Fall. 4 credits. Prerequisites: MATH 2220 or 2940, CS 2800 or equivalent (e.g., MATH 3320, 4320, 4340, 4810), and some additional course in mathematics or theoretical computer science.

**CS 4999 Independent Reading and Research**

Fall, spring. 1-4 credits.

**CS 5150 Software Engineering**

Fall. 4 credits. Prerequisite: CS 2110 or equivalent experience programming in Java or C++.

**CS 5220 Applications of Parallel Computers**

Spring. 4 credits. Prerequisite: course in numerical methods at level of CS 3220 or higher.

**CS 5300 The Architecture of Large-Scale Information Systems (also INFO 5300)**

Spring. 4 credits. Prerequisite: CS/INFO 3300 or CS 4320.

**CS 5410 Intermediate Computer Systems**

Fall or spring. 4 credits. Prerequisite: CS 4410 or permission of instructor. Next offered fall 2009.

**CS 5420 Parallel Computer Architecture (also ECE 5720)**

Fall. 4 credits. Prerequisite: ECE 4750. For description, see ECE 5720.

**CS 5430 System Security**

Fall or spring. 4 credits. Prerequisites: CS 4410 or 4450 and familiarity with JAVA, C, or C# programming languages. Next offered spring 2010.

**CS 5620 Interactive Computer Graphics**

Fall. 4 credits. Prerequisite: CS 4620.

**CS 5643 Physically Based Animation for Computer Graphics**

Spring. 4 credits. Prerequisites: CS/ENGRD 3220 and/or CS 4620 or permission of instructor.

**CS 5722 Heuristic Methods for Optimization (also CEE 5290, ORIE 5340)**

Fall. 3 or 4 credits. Prerequisites: CS/ENGRD 2110 or 3220 or CEE/ENGRD 3200, or graduate standing, or permission of instructor.

**CS 6110 Advanced Programming Languages**

Spring. 4 credits. Prerequisite: graduate standing or permission of instructor.

**CS 6210 Matrix Computations**

Fall. 4 credits. Prerequisites: MATH 4110 and 4310 or permission of instructor. Offered alternate years.

**[CS 6240 Numerical Solution of Differential Equations]**

Spring, 4 credits. Prerequisites: exposure to numerical analysis (e.g., CS 4210 or 6210), differential equations, and knowledge of MATLAB.]

**CS 6320 Database Systems**

Spring, 4 credits. Prerequisite: CS 4320 or permission of instructor.

**CS 6322 Advanced Database Systems**

Fall, 4 credits.

**CS 6410 Advanced Systems**

Fall or spring, 4 credits. Prerequisite: CS 4410 or permission of instructor. Next offered fall 2009.

**CS 6460 Peer-to-Peer Systems**

Spring, 4 credits. Recommended: CS 6410.

**CS 6464 Advanced Distributed Storage Systems**

Spring, 4 credits. Prerequisites: CS 4410 or permission of instructor.

**[CS 6620 Advanced Interactive Graphics]**

Fall or spring, 4 credits. Prerequisite: CS 4620 and 4621 or 5620 or permission of instructor. Next offered 2010–2011.]

**CS 6630 Realistic Image Synthesis**

Fall or spring, 4 credits. Prerequisites: CS 4620 or equivalent and undergraduate-level understanding of algorithms, programming, and vector calculus.

**[CS 6650 Computational Motion]**

Fall, 4 credits. Prerequisites: undergraduate-level understanding of algorithms, and some scientific computing. Offered alternate years; next offered 2010–2011.]

**CS 6670 Computer Vision**

Fall or spring, 4 credits. Prerequisites: undergraduate-level understanding of algorithms and MATH 2210 or equivalent. Next offered fall 2009.

**CS 6700 Advanced Artificial Intelligence**

Spring, 4 credits. Prerequisite: CS 4700 or permission of instructor.

**CS 6740 Advanced Language Technologies (also INFO 6300)**

Fall, spring, 3 credits. Prerequisite: permission of instructor. Neither CS 4300 nor CS 4740 are prerequisites.

**[CS 6764 Reasoning about Knowledge]**

Fall, 4 credits. Prerequisites: mathematical maturity and acquaintance with propositional logic. Next offered 2010–2011.]

**CS 6780 Advanced Topics in Machine Learning**

Fall or spring, 4 credits. Prerequisites: CS 4780 or equivalent, or CS 5780 or equivalent, or permission of instructor. Next offered fall 2009.

**[CS 6782 Probabilistic Graphical Models (also BTRY 6790)]**

Fall, 4 credits. Prerequisites: probability theory (BTRY 4080 or equivalent), programming and data structures (CS 2110 or equivalent); a course in statistical methods is recommended but not required (BTRY 4090 or equivalent). Next offered 2010–2011.]

**[CS 6810 Theory of Computing]**

Fall or spring, 4 credits. Prerequisite: CS 3810 and CS 4820 or 6820 or permission of instructor. Next offered 2010–2011.]

**CS 6820 Analysis of Algorithms**

Fall, 4 credits. Prerequisite: CS 4820 or graduate standing.

**[CS 6822 Advanced Topics in Theory of Computing]**

Fall or spring, 4 credits. Prerequisite: CS 6820 or permission of instructor. Next offered 2010–2011.]

**CS 6830 Cryptography**

Fall, 4 credits. Prerequisites: General ease with algorithms and elementary probability theory, maturity with mathematical proofs (ability to read and write mathematical proofs).

**CS 6840 Algorithmic Game Theory**

Fall or spring, 4 credits. Prerequisite: background in algorithms and graphs at level of CS 4820. No prior knowledge of game theory or economics assumed. Next offered spring 2010.

**[CS 6850 The Structure of Information Networks (also INFO 6850)]****CS 6860 Logics of Programs**

Spring, 4 credits. Prerequisites: CS 4810, 6810, and (CS/MATH 4860 or MATH 4810).

**CS 7090 Computer Science Colloquium**

Fall, spring, 1 credit. For staff, visitors, and graduate students interested in computer science. S–U grades only.

**CS 7190 Seminar in Programming Languages**

Fall, spring, 1 credit. Prerequisite: CS 6110 or permission of instructor. S–U grades only.

**CS 7192 Seminar in Programming Refinement Logics**

Fall, spring, 4 credits. Prerequisite: permission of instructor.

**CS 7320 Topics in Database Systems**

Fall, spring, 4 credits. S–U grades only.

**CS 7390 Database Seminar**

Spring, 1 credit. Prerequisite: CS 6322 or permission of instructor. S–U grades only.

**CS 7490 Systems Research Seminar**

Fall, spring, 1 credit. S–U grades only.

**CS 7690 Computer Graphics Seminar**

Fall, spring, 3 credits.

**[CS 7726 Evolutionary Computation and Design Automation (also MAE 6500)]**

Spring, 4 credits. Prerequisite: programming experience or permission of instructor. Next offered 2010–2011.]

**CS 7790 Seminar in Artificial Intelligence**

Fall, spring, 4 credits. Prerequisite: permission of instructor. S–U grades only.

**CS 7794 Seminar in Natural Language Understanding**

Fall, spring, 2 credits.

**CS 7860 Introduction to Kleene Algebra**

Spring, 4 credits. Prerequisites: CS 4810 and (CS 4860 or MATH 4810).

**CS 7890 Seminar in Theory of Algorithms and Computing**

Fall, spring, 4 credits. Prerequisite: permission of instructor. S–U grades only.

**CS 7893 Cryptography Seminar**

Fall, spring, 1 credit.

**CS 7999 Independent Research**

Fall, spring. Prerequisite: permission of a Computer Science advisor. Independent research for master of engineering project.

**CS 9999 Thesis Research**

Fall, spring. Prerequisite: permission of a Computer Science advisor. S–U grades only. Doctoral research.

## COMPUTING IN THE ARTS UNDERGRADUATE MINOR

The computer plays a role in almost every aspect of human life, and its influence and potential now extend routinely not only to technical and commercial pursuits but also into the realms of the imaginative and the aesthetic. The Computing in the Arts minor offers students opportunities to use computers to realize works of art, to study the perception of artistic phenomena, and to think about new, computer-influenced paradigms and metaphors for the experiences of making and appreciating art. Faculty from several departments in the college offer courses toward the minor, drawing on disciplines in the arts, the social sciences, the humanities, and the physical sciences. Currently, the minor is offered in five tracks: computer science, dance, film, music, and psychology, each described in more detail below. Students may minor in the same area as their major, or in a different area.

It is likely that additional tracks in other disciplines will be added to the minor, indeed possible that this will have occurred after the publication deadline for this year's *Courses of Study* but in time to take effect in the 2009–2010 academic year. The director and area representatives listed below will always have the latest information.

### Director

Graeme Bailey

### Applying for the Minor and Choosing Courses

Students should meet with the track representative in their chosen discipline for initial advising about the minor. For 2009–2010, these representatives are Graeme Bailey (computer science track), Kevin Ernste (music track), Allen Fogelsanger (dance track), Marilyn Rivchin (film track), and Carol Krumhansl (psychology track).

Regardless of which track they choose, all students in the minor are required to take the core course, Computing in the Arts (CS 1610, cross-listed as CIS 1610, DANCE 1540, ENGR 1610, FILM 1750, MUSIC 1465, and PSYCH 1650). This course combines fundamental background in cognitive modeling, statistics, programming, and algorithmic thinking, as preparation for more specialized work; hence, though it is not a formal prerequisite to other courses, it should be taken as early as possible in the student's program. For students who have already gained an equivalent background through other courses, however, it may be waived by permission of the director.

In addition to the core course, each student chooses another five courses satisfying the following requirements:

1. At least one must entail a significant computing component, regardless of its home department (marked \* in the lists below).
2. At least two must entail a significant artistic component (marked † in the lists below).
3. For students majoring in a field offering a track, none of the courses from that track may be double-counted as also satisfying major requirements.

The goal is to encourage the development of reasonable depth within one area, without neglecting the interdisciplinary nature of the field. Hence, rather than choosing courses at random from the lists below or focusing too narrowly on one particular corner of the field, each student should work actively with an advisor from his or her minor in building an appropriate program.

### Course Lists

**Computer Science track.** In addition to the core course, CS 1610, any five of the following. Note that some of these courses have CS prerequisites.

- †ART 1700 Visual Imaging in the Electronic Age (also ARCH 4508, CIS 1620, ENGRI 1620)
  - \*†CIS 3000 Introduction to Computer Game Design
  - \*CS 2110 Object-Oriented Programming and Data Structures
  - \*CS 4620 Introduction to Computer Graphics
  - \*CS 4700 Foundations of Artificial Intelligence
  - \*CS 4740 Introduction to Natural Language Processing
  - \*CS 4780 Machine Learning
  - \*CS 5640 Computer Animation
  - \*CS 5642 Advanced Animation
  - \*CS 5780 Empirical Methods in Machine Learning and Data Mining
  - \*INFO 3450 Human-Computer Interaction Design
  - \*INFO 4400 Advanced Human-Computer Interaction Design
  - INFO 4500 Language and Technology
- Up to two courses from another track.

**Dance track.** In addition to the core course, DANCE 1540 (for description, see CS 1610), any five of the following. Note that some of these courses have DANCE pre- and/or corequisites. Note also that for this track, two courses marked \* should be taken, and they should not be I and II of any one series for the purposes of satisfying the \* requirement.

- †DANCE 2430/VISST 2430 Hip-Hop, Hollywood, and Home Movies
- †DANCE 2500/VISST 2711 Beginning Dance Composition
- †DANCE 3500 Intermediate Dance Composition I
- †DANCE 3510 Intermediate Dance Composition II
- \*†DANCE 3550 Techno Soma Kinesics
- †DANCE 3660/THETR 3620 Lighting Design Studio I
- \*DANCE 3560/MUSIC 3441/THETR 3690 Interactive Performance Technology

- †DANCE 3570 Media Arts Studio
  - \*DANCE 3680/MUSIC 3431/THETR 3680 Sound Design and Digital Audio
  - †DANCE 4500 Advanced Dance Composition I
  - †DANCE 4510 Advanced Dance Composition II
  - \*†DANCE 4550 Techno Soma Kinesics II
  - †DANCE 4660/THETR 4620 Lighting Design Studio II
  - \*†MUSIC 3421 Scoring the Moving Image
  - †PSYCH 3050/VISST 3305 Visual Perception
  - \*THETR 3650 Automated Lighting and Control
- Up to two courses from another track.

**Film track.** In addition to the core course, FILM 1750, any five of the following. Note that some of these courses have FILM pre- and/or corequisites.

- [†ART 1700 Visual Imaging in the Electronic Age]
  - [†ART 2702 Digital Video and Sound]
  - \*ART 2703/CS 5640 Computer Animation
  - \*CS 5642 Advanced Computer Animation
  - FILM 3250 Animation: History and Practice
  - †FILM 3770 Introduction to 16mm and Digital Filmmaking
  - †FILM 4220 Cinematography
  - †FILM 4770 Intermediate Film and Video Projects: Documentary and Experimental Workshop
  - †FILM 4930 Advanced Film and Video Projects
  - \*THETR 3680 Sound Design and Digital Audio
  - \*†THETR 3690 Digital Performance
- Up to two courses from another track.

**Music track.** In addition to the core course, MUSIC 1465, any five of the following. Note that some of these courses have MUSIC prerequisites.

- \*†CIS 3000 Introduction to Computer Game Design
  - \*†MUSIC 1421 Introduction to Computer Music
  - MUSIC 2111/PHYS 1204 Physics of Musical Sound
  - \*†MUSIC 2421 Computers in Music Performance
  - †MUSIC 3111/3112/3113 Jazz Improvisation (any two of these 2-credit courses)
  - \*†MUSIC 3421 Scoring the Moving Image
  - \*MUSIC 3431/THETR 3680 Sound Design and Digital Audio
  - \*†MUSIC 3441/THETR 3690 Interactive Performance Technology
  - †MUSIC 4101 Counterpoint
  - †MUSIC 4103 Topics in Post-Tonal Theory and Analysis
  - †MUSIC 4111 Composition
  - †MUSIC 4122 Orchestration
- Up to two courses from another track.

**Psychology track.** In addition to the core course, PSYCH 1650, any five of the following. Note that some of these courses have PSYCH prerequisites.

- †ART 1700 Visual Imaging in the Electronic Age (also ARCH 4508, CIS/CS/ENGRI 1620)
- \*CS 4620 Introduction to Computer Graphics
- \*INFO 2140/PSYCH 2140 Cognitive Psychology
- \*†MUSIC 1421 Introduction to Digital Music
- †MUSIC 4181/PSYCH 4180 Psychology of Music

- PSYCH 2050 Perception
  - †PSYCH 3050 Visual Perception
  - PSYCH 3160 Auditory Perception
  - \*PSYCH 3420 Human Perception: Applications to Computer Graphics, Art, and Visual Display
- Up to two courses from another track.

### CZECH

See "Department of Russian."

### DANCE

See "Department of Theatre, Film, and Dance."

### DUTCH

See "Department of German Studies."

### EARTH AND ATMOSPHERIC SCIENCES

L. D. Brown, chair; Arthur T. DeGaetano, associate chair (CALS); director of undergraduate studies, J. L. Cisne (Science of Earth Systems); M. W. Wysocki (Atmospheric Sciences); R. W. Allmendinger, W. D. Allmon, C. Andronicos, L. M. Cathles, J. L. Cisne, A. T. DeGaetano, L. A. Derry, P. J. Gierasch, M. Goman, C. H. Greene, D. L. Hysell, T. E. Jordan, R. W. Kay, S. Mahlburg Kay, R. Lohman, N. Mahowald, B. Monger, A. Moore, J. Phipps Morgan, M. Pritchard, S. J. Riha, W. M. White, D. S. Wilks

#### Science of Earth Systems (SES)

Offered by the Department of Earth and Atmospheric Sciences

Contact: 2124 Snee Hall, 255-5466, [www.eas.cornell.edu](http://www.eas.cornell.edu)

The **Earth Sciences** have never been more critical to society than they are today. Global warming, dwindling energy resources, inadequate water supplies, political strife over strategic minerals, and megadisasters threatened by volcanic eruptions, earthquakes, tsunamis, and hurricanes: these are but a few of the headlines that appear with increasing frequency. The Department of Earth and Atmospheric Sciences at Cornell is a global leader in research directed toward understanding the fundamental processes that have shaped our planet, and is committed to providing Cornell students with the earth literacy needed to serve as informed citizens and wise stewards of the Earth. EAS faculty members and graduate students carry out frontier research on both basic and applied aspects of subjects as diverse as satellite monitoring of volcanic activity, the deep structure of the Andes and Tibetan Plateau, the nature of the earth's ionosphere, and the impact of aerosols on global climate.

The Science of Earth Systems (SES) major is the undergraduate program offered by EAS to Cornell students in the Colleges of Engineering, Arts and Sciences, and Agriculture and Life Sciences. Students in this program can pursue education and research that prepares them to

compete for careers or graduate study at leading institutions in this country and abroad. Students may choose to focus on one of a number of disciplinary specialties, such as geophysics or tectonics, or develop the broad expertise needed to understand the interactions between the diverse elements of earth and life in the past, present, and future. By analyzing the complex relations among the ocean, solid earth, atmosphere, and biosphere, students can help meet society's growing demand for energy, minerals, and clean water as well as contribute to mitigating the negative impacts related to global warming, rising sea level, natural hazards, and decreasing biodiversity.

The SES program is unique in that it incorporates the fundamentals of Earth Science with the emergence of a new and more complete approach that encompasses all components of the earth system—air, life, rock, and water—to gain a new and more comprehensive understanding of the world as we know it.

To achieve a complete understanding of these important issues, students must have a desire to take a very hands-on approach. An abundance of opportunities exist for geological, oceanographic, and meteorological research in the field and for nationwide and international travel, as well as paid research experience. Students have worked with faculty members in the Andes, the Aleutians, the Rocky Mountains, the Atacama Desert, the Caribbean, Tibet, and Hawaii, and have spent a semester at sea in the Woods Hole Ocean Studies Program. Students are also able to probe the ionosphere of Earth and the surface of Mars by utilizing techniques in remote sensing.

The SES major provides a strong preparation for graduate school in any one of the earth sciences, such as atmospheric sciences, geological sciences, geophysics, geochemistry, oceanography, hydrology, and biogeochemistry. Students seeking employment with the B.A. or B.S. degree will have many options in a wide variety of careers related to energy, the environment, and critical resources in both the private sector and government. Students with the strong science background provided by the SES major are also highly valued by graduate programs in environmental law, public affairs, economics, and public policy.

### Requirements for the Science of Earth Systems major

#### 1. Basic Math and Sciences

This part of the SES curriculum builds a strong and diverse knowledge of fundamental science and mathematics, providing the student with the basic tools needed in upper-level science classes.

- MATH 1110–1120 (or MATH 1910–1920)
- PHYS 1112–2213 (or PHYS 2207–2208)
- CHEM 2070–2080, or CHEM 2090–2080, or CHEM 2070–1570
- BIOLOGY—three options:
  - one year of biology, choosing from the introductory biology sequences of courses: BIOG 1101/1103-1102/1104, or 1105/1106, or BIOG 1109/1110
  - one semester from the introductory biology sequences of courses (listed in option 1) and EAS/BIOEE 1540 or EAS 1700

iii. students may substitute (with written permission of their advisor) one semester of biology with an additional semester of chemistry, math, or physics.

- The required introductory course in earth science, EAS 2200 The Earth System.
- SES Core Courses: The core courses emphasize the interconnectedness of the Earth system, and are founded on the most modern views of the planet as an interactive and ever-changing system. Each crosses the traditional boundaries of disciplinary science. Three courses selected from the following four core courses are required for the major.
  - EAS 3010 Evolution of the Earth System
  - EAS 3030 Biogeochemistry
  - EAS 3040 Interior of the Earth
  - EAS 3050 Climate Dynamics
- Concentration Courses: The concentration(s) requirement is achieved by four intermediate to advanced-level courses (3000 level and up) that build on the core courses and have prerequisites in the required basic sciences and/or mathematics courses. Note that additional basic math and science courses may be required to complete the concentration(s) courses, depending upon the student's choice of concentration(s). The concentration(s) courses build depth and provide the student with a specific expertise in some facet of Earth system science. Four concentration(s) are defined for the major: geological sciences, biogeochemistry, atmospheric sciences, and ocean sciences. Other concentration(s) can be tailored to a student's interests in concert with the student's advisor and approval of the curriculum committee. The concentration(s) should be chosen during the junior year or before in consultation with the student's advisor and the approval of the Director of Undergraduate Studies.

- Field/Observation/Laboratory Experience: Exposure to the basic observations of earth science, whether directly in the field, or indirectly by various techniques of remote sensing or in the laboratory, is necessary to understand fully the chosen area of concentration(s). Means of satisfying this requirement generally include 3 credits of course work. Possibilities for fulfilling the field/observation requirement include the following:

Courses in the Hawaii Environmental Semester program;

Courses given by the Shoals Marine Laboratory;

EAS 2500 Meteorological Observations and Instruments;

EAS 3520 Synoptic Meteorology I;

EAS 4170 Field Mapping in Argentina;

EAS 4910 and/or 4920 Undergraduate Research, with appropriate choice of project;

Field courses taught by another college or university (3-credit minimum).

For more information contact John Cisne, Department of Earth and Atmospheric Sciences, john-cisne@cornell.edu, and visit the web site: [www.eas.cornell.edu](http://www.eas.cornell.edu).

**Honors.** An honors program is offered by the Department of Earth and Atmospheric Sciences for superior students. Candidates for honors must maintain an overall 3.0 GPA, a cumulative average of 3.5 in the major, and complete an honors thesis (usually through EAS 4910 and/or 4920). Students interested in applying should contact the director of undergraduate studies during the second semester of the junior year or early in the first semester of the senior year.

### Courses

#### EAS 1101 Introductory Geological Sciences (To Know Earth) (PBS)

Fall. 3 credits. C. Andronicos and R. Allmendinger.

Designed to enhance an appreciation of the physical world. Emphasizes natural environments, surface temperatures, and dynamic processes such as mountain belts, volcanoes, earthquakes, glaciers, and river systems. Interactions of the atmosphere, hydrosphere, biosphere, and lithosphere (earth system science). Water, mineral, and fuel resources; environmental concerns. Field trips in the Ithaca region.

#### EAS 1108 Earth in the News (PBS)

Summer. 3 credits. S. L. Losh.

Provides an introduction to physical geology and earth systems science and explores the scientific basis for informed decision making regarding many timely environmental issues, including global warming; water pollution and use; geologic hazards such as floods, earthquakes, and volcanoes; fossil fuel distribution and use; and land use. A field trip is taken in the Ithaca area.

#### EAS 1109 Dinosaurs

Fall. 1 credit. J. L. Cisne.

An introductory survey course for anyone interested in dinosaurs. Lectures examine the fossil evidence and illustrate how various geological and biological disciplines contribute to understanding dinosaurs and their world.

#### EAS 1150 Severe Weather Phenomena (PBS)

Summer. 3 credits. M. W. Wysocki.

An understanding of important aspects of severe weather will be explored including snowstorms/lake effect snow, windstorms, tornadoes, thunderstorms, tropical cyclones, El Niño, floods, drought, and heat waves.

#### EAS 1190 Fossil Preparation

Fall. 1 credit. Prerequisite: EAS 1109 or related EAS course. W. Allmon and J. Cisne.

Hands on experience in the preparation and curation of fossils in laboratories at the Paleontological Research Institution (PRI). Students provide own transportation to the Museum of the Earth via public transit or other means. Activities include preparation and study of vertebrate, invertebrate, and plant specimens; sorting of bulk material such as field collections and mastodon dung, and curation of prepared specimens.

#### EAS 1220 Earthquake! (also ENGRI 1120) (PBS)

Spring. 3 credits. L. Brown.

Explores the science of natural hazards, their societal impacts, and means of mitigation. The focus is on earthquakes, volcanoes, and tsunamis, but hurricanes, severe weather, climate change, landslides, wildfires, and the threat of extinction from a future impact by an extraterrestrial body are also considered.

**EAS 1310 Basic Principles of Meteorology (PBS)**

Fall. 3 credits. M. W. Wysocki.

Simplified treatment of the structure of the atmosphere: heat balance of the Earth; general and secondary circulations; air masses, fronts, and cyclones; and hurricanes, thunderstorms, tornadoes, and atmospheric condensation. The optional 1-credit laboratory for this course is offered as EAS 1330.

**EAS 1330 Basic Meteorology Lab**

Fall. 1 credit. Corequisite: EAS 1310. M. W. Wysocki.

This course is required for atmospheric science majors, but is optional for other students taking EAS 1310.

**EAS 1340 Weather Analysis and Forecasting**

Spring. 1 credit. Prerequisites: EAS 1310 and EAS 1330. S-U grades only. M. W. Wysocki and staff.

This course will serve as an extension of the EAS 1330 first-year majors lab. It will provide opportunity for formal weather briefings, explore specific atmospheric storms (synoptic and mesoscale, including the climatology of each storm type), through assigned readings, map analysis, and weather discussions.

**EAS 1400 Freshman Writing Seminar "Writing in the Sciences: Environmental Perspectives"**

Spring. 3 credits. S. Jessup.

This course is a Freshman Writing Seminar in which students examine interactions between humans and the natural environment from individual, societal, and scientific perspectives. Readings include a brief historical survey of humanity's role within the natural world and short readings about current environmental issues. Includes a research project where each student explores a current environmental issue.

**EAS 1540 Introductory Oceanography, Lecture (also BIOEE 1540) (PBS)**

Fall, summer. 3 credits. Fall: C. H. Greene and B. C. Monger; summer: B. C. Monger.

Intended for both science and nonscience majors. Covers the basic workings of the ocean including its physics, chemistry, and biology. Following this basic description, the course examines threats to the health of the ocean and the important role the ocean plays in global climate change. Nonscience majors should pay particular attention to this course to fulfill a science requirement, because they learn broadly how the earth works (physically, chemically and biologically) in just a single class.

**EAS 1550 Introductory Oceanography, Laboratory (also BIOEE 1550)**

Fall. 1 credit. Corequisite: EAS 1540. B. C. Monger and C. H. Greene.

Laboratory course covering topics presented in EAS/BIOEE 1540.

**EAS 1551 Introduction to Oceanography, Laboratory (also BIOSM 1551)**

Summer. 1 credit. Prerequisites: college level science course, or EAS 1540, or marine science course or permission of instructor. B. Monger and C. Greene.

Laboratory course covering topics presented in EAS/BIOEE 1540, but presented in the field on Appledore Island, Maine at the Shoals Marine Laboratory. Topics/activities include Plankton Tow, CDT casts, water bottle sampling, chlorophyll analysis, nutrient chemistry analysis, satellite remote sensing in the Gulf of Maine, data acquisition, data processing, data analysis, and display.

**EAS 1700 Evolution of the Earth and Life (PBS)**

Spring. 3 credits. J. L. Cisne.

Earth systems and their evolution; Earth history's astronomical context; plate tectonics, continental drift, and their implications for climate and life; co-evolution of life and the atmosphere; precedents for ongoing global change; dinosaurs, mass extinctions, and human ancestry. Includes laboratories on reconstructing geological history and mapping ancient geography. Fossil collecting on field trips.

**EAS 2130 Marine and Coastal Geology (PBS)**

Summer. 4 credits. Prerequisite: introductory geology or ecology or permission of instructor. Staff.

A special two-week course offered at Cornell's Shoals Marine Laboratory (SML), located on an island near Portsmouth, N.H. For more details and an application, contact SML office, G14 Stimson Hall.

**EAS 2200 The Earth System (PBS)**

Fall, spring. 4 credits. Letter grades only. W. M. White.

Integrated introduction to the earth system stressing the biological, chemical, geological, and physical interactions among the atmosphere, ocean, and solid earth. Topics include biogeochemical cycles, climate dynamics, and the evolution of the atmosphere, biosphere, cryosphere (ice), hydrosphere (oceans and inland waters), and lithosphere (solid earth).

**[EAS 2220 Seminar—Hawaii's Environment**

Fall. 1 credit. S-U grades only. Next offered 2010–2011. A. Moore.

For students interested in the unique environmental systems of the Hawaiian Islands. Designed to bring together students returning from field studies in Hawaii with students interested in going there to study.]

**EAS 2500 Meteorological Observations and Instruments**

Fall. 4 credits. Prerequisite: EAS 1310. M. W. Wysocki.

Covers methods and principles of meteorological measurements and observations including surface, free-air, and remote systems. Also covers instrument siting, mounting, and protection; instrument response characteristics, calibration, and standardization; and recorders and data logging systems. Laboratory exercises are in observation and data analysis.

**EAS 2680 Climate and Global Warming (PBS)**

Spring. 3 credits. Prerequisite: basic college math. S-U or letter grades. A. T. DeGaetano.

Familiarizes students from a range of disciplines with such contemporary issues in climatology as global warming and El Niño. Introduces the natural greenhouse effect, past climates, observed and projected climate changes and impacts. Also covers natural climate variations (e.g., El Niño) and their consequences and predictability. Readings focus on recent scientific findings to climate change.

**EAS 2900 Computer Programming and Meteorology Software**

Spring. 3 credits. Prerequisite: EAS 1310, MATH 1110, or equivalent. N. Mahowald and B. Belcher.

**EAS 2960 Forecast Competition**

Fall and spring. 1 credit; students enroll for two consecutive semesters; credit awarded after second semester; may be repeated for credit. Prerequisite: undergraduate standing in atmospheric science or permission of instructor. S-U grades only. D. S. Wilks.

Two-semester course providing daily exercise in probabilistic weather forecasting, in which students compete to forecast local weather most skillfully.

**EAS 3010 Evolution of the Earth System (PBS)**

Fall. 4 credits. Prerequisites: EAS 2200, MATH 1110 or 1910 and one course in chemistry. Two Saturday field trips.

T. Jordan, S. Riha, and W. Allmon.

Life activities alter the physical and chemical environment, and are altered by that environment. This interaction over very long times constitutes a co-evolution of Earth and life. Course uses modern systems, tens of thousand year old systems, and hundreds of million year old systems to illustrate principles, methods of reconstructing deep history, and the context of natural change inherent to life and earth.

**EAS 3030 Introduction to Biogeochemistry (also NTRES 3030) (PBS)**

Fall. 4 credits. Prerequisites: CHEM 2070 or equivalent, MATH 1120, plus a course in biology and/or geology. J. Yavitt.

Control and function of the Earth's global biogeochemical cycles. Begins with a review of the basic inorganic and organic chemistry of biologically significant elements, and then considers the biogeochemical cycling of carbon, nutrients, and metals that take place in soil, sediments, rivers, and the oceans. Topics include weathering, acid-base chemistry, biological redox processes, nutrient cycling, trace gas fluxes, bio-active metals, the use of isotopic tracers, controls on atmospheric carbon dioxide, and mathematical models. Interactions between global biogeochemical cycles and other components of the Earth system are discussed.

**EAS 3040 Interior of the Earth (PBS)**

Spring. 3 credits. Prerequisite: EAS 2200 or permission of instructor. C. Andronicos.

This class will investigate the geology of the solid earth with emphasis on igneous and metamorphic petrology, structure of the continents and ocean basins, and large scale tectonics. Interaction between deformation, melt generation and metamorphism will be examined as mechanisms by which the crust is differentiated from the underlying mantle. Geophysical and geochemical techniques for probing the deep interior of the earth will be investigated. Plate tectonics will be used as a unifying theme to understand processes operating in the solid earth.

**EAS 3050 Climate Dynamics (PBS)**

Fall. 3 credits. Prerequisites: two semesters of calculus and one of physics.

N. Mahowald.

Processes that determine climate and contribute to its change are discussed, including atmospheric radiation, ocean circulation, and atmospheric dynamics. Contemporary climate change issues are investigated and discussed in the context of natural variability of the system.

**EAS 3060 Evolution of Ancient and Modern Oceans (also BIOSM 3060) (PBS)**

Summer. 6 credits. Prerequisites: introductory biology (two semesters) and a college-level course in Earth Science, or permission of instructor. W. Allmon.

An intensive survey of the biological and geological history of the oceans, starting with the record of ancient oceans and life preserved in the rocks of central New York, followed by a transect and examination of the history of the Appalachian Mountains, ending with the oceanography and marine biology of the Gulf of Maine at Shoals Marine Lab.

**EAS 3220 Biogeochemistry of the Hawaiian Islands (PBS)**

Spring. 4 credits. Prerequisites: enrollment in Earth and Environmental Sciences Semester in Hawaii; EAS 2200, EAS 3030, or permission of instructor. L. A. Derry.

A field-oriented biogeochemistry course held on the island of Hawaii. Field, class, and laboratory work focus on how landscape age and climate strongly control biogeochemical cycling and ecosystem development in Hawaii. Other topics include succession of ecosystems, evolution of nutrient cycles, and impacts of invasive species. The class is structured around field projects, carried out both in groups and individually.

**EAS 3340 Microclimatology (PBS)**

Spring. 3 credits. Prerequisite: a course in physics. D. S. Wilks.

The relationship of radiant energy, temperature, wind, and moisture in the atmosphere near the ground. The interplay between physical processes of the atmosphere, plant canopies, and soil is examined with emphasis on the energy balance.

**EAS 3400 Field Study of the Earth System (PBS)**

Spring. 6 credits. Prerequisites: enrollment in Earth and Environmental Sciences Semester in Hawaii; one semester of calculus (MATH 1910/1920/1930 or 1110/1120) and two semesters of any of the following: PHYS 2207/2208 or 1112/2213; CHEM 2070/2080 or 2090/2080; BIOG 1101/1103–1102/1104 or 1105/1106 or 1109/1110; or equivalent course work. A. Moore.

Interdisciplinary field course covering fundamental concepts of the Earth system. Topics include global circulation patterns in the solid Earth, atmosphere, and ocean; energy and mass transfer; change and variability of Earth, atmosphere, and ocean systems; the temporal record of change preserved in the geologic record; and Earth, oceanic, and atmospheric controls on ecosystem processes. The course is project-based with students engaged in hands-on, active learning that takes advantage of local resources.

**EAS 3410 Atmospheric Thermodynamics and Hydrostatics (PBS)**

Fall. 3 credits. Prerequisites: one year of calculus and one semester of physics. M. W. Wysocki.

Introduction to the thermodynamics and hydrostatics of the atmosphere and to the methods of description and quantitative analysis used in meteorology. Topics include thermodynamic processes of dry air, water vapor, and moist air and concepts of hydrostatics and stability.

**EAS 3420 Atmospheric Dynamics (PBS)**

Spring. 3 credits. Prerequisites: MATH 2130, 2220, or 2930 or equivalent; one year of physics. Staff.

Introduction to the basic equations and techniques used to understand motion in the atmosphere, with an emphasis on the space and time scales typical of storm systems (the synoptic scale). The governing equations of atmospheric flow are derived from first principles and applied to middle latitude and tropical meteorology. Topics include balanced flow, atmospheric waves, circulation, and vorticity.

**EAS 3500 Dynamics of Marine Ecosystems (also BIOEE 3500) (PBS)**

Fall. 3 credits. Prerequisites: one year of calculus and a semester of oceanography (i.e., EAS 1540), or permission of instructor. Offered alternate years. C. H. Greene and R. W. Howarth.

Lecture course covering the interactions of physical and biological processes in marine ecosystems.

**EAS 3510 Conservation Oceanography (also BIOEE 3510) (PBS)**

Spring. 4 credits. Prerequisites: EAS 3400; enrollment in Earth and Environmental Sciences Semester in Hawaii. Recommended: oceanography course. C. H. Greene and C. D. Harvell.

Covers the interactions of physical and biological processes in marine ecosystems. Starts by looking at these processes on ocean-basin to regional scales and works down to the smaller scales relevant to individual organisms. Students are introduced to modern techniques of marine-ecosystems research, including remote sensing, oceanographic-survey methods, and experimental marine ecology. This course is field and laboratory intensive with students engaged in hands-on, active learning that takes advantage of local resources.

**EAS 3520 Synoptic Meteorology I (PBS)**

Spring. 3 credits. Prerequisite: EAS 3410. Corequisite: EAS 3420. M. W. Wysocki.

Study of weather map analysis and forecasting techniques by applying the principles of fluid and heat flow. Strengthens previously introduced meteorological concepts which are applied to forecasting midlatitude synoptic scale weather systems, such as cyclones, anticyclones, jet streams, fronts, and waves.

**[EAS 3530 Physical Oceanography (PBS)]**

Fall. 3 credits. Prerequisites: MATH 1120 or 1920, or one year of physics, or permission of instructor. Offered alternate years; next offered 2010–2011. B. C. Monger.

The course covers thermohaline and wind-driven circulation and surface-ocean boundary-layer dynamics. Mathematical expressions for describing conservation of momentum, mass, and heat in a fluid are used to explain the ocean's responses to wind and buoyancy forcing.]

**EAS 4010 Fundamentals of Energy and Mineral Resources (PBS)**

Fall. 3 credits. Recommended: previous course in geology. L. Cathles.

The Earth's energy and mineral resources reflect some of the most important changes and dramatic events that have punctuated earth history. Course provides an overview of resource types in the context of the Earth's atmospheric evolution, rifting, mantle convection, and hydrologic cycle. The

processes of resource accumulation are described in terms of simple chemical and physical principles and in the societal contexts of supply, demand, and sustainability.

**[EAS 4040 Geodynamics (PBS)]**

Spring. 3 credits. Prerequisite: calculus and calculus-based physics or permission of instructor. Offered alternate years; next offered 2010–2011. J. Phipps Morgan.

Quantitative study of the deformation, heat transport, and melting processes that have shaped the evolution of the solid Earth. Familiar physical and chemical principles and concepts are applied to the study of plate tectonics, fluid dynamics, mantle convection, melting, and mountain building.]

**EAS 4050 Active Tectonics (PBS)**

Spring. 3 credits. Recommended: mechanical background equivalent to EAS 4260/4880. S–U or letter grades. Offered alternate years. R. Lohman.

**[EAS 4060 Marine Geology and Geophysics (PBS)]**

Spring. 4 credits. Prerequisite: EAS 2200 or comparable courses; completion of some EAS classes helpful, but not required. Next offered 2010–2011. J. Phipps-Morgan.

This course will use geological, geochemical, and geophysical approaches to explore the geology of the ocean floor.]

**EAS 4170 Field Mapping in Argentina (PBS)**

Summer. 4 credits. Prerequisite: introductory EAS course and EAS 4260 or 3040. Offered alternate years. S. Mahlburg Kay.

Field mapping course in Argentina that fulfills field requirement for majors with interests in Geological Sciences and provides a field geological experience for others. Course consists of lectures in Buenos Aires followed by field exercises in the Sierras Pampeanas, Precordillera, and Main Cordillera Ranges of the Argentine Andes in the provinces of San Juan and Mendoza. A variety of exercises use modern techniques in the field mapping of a broad range of variably deformed sedimentary, metamorphic and igneous rocks. The course further provides an introduction to the tectonics and magmatic processes of the central Andes with emphasis on comparable processes in the U.S. Exercises are done in combination with students and faculty of the University of Buenos Aires.

**[EAS 4250 European Discovery of Impacts and Explosive Volcanism]**

Spring. 2 credits. Prerequisite: junior, senior, or graduate students with background in geology and permission of instructor. Letter grades only. Meets one day per week plus field trip during spring break. Fee probably charged for required weeklong field trip. Offered alternate years; next offered 2010–2011. J. Phipps Morgan and C. Andronicos.]

**EAS 4260 Structural Geology (PBS)**

Spring. 4 credits. Prerequisite: one semester of calculus, plus introductory geology course or permission of instructor. One weekend field trip. C. Andronicos.

The nature and origin of deformed rocks at submicroscopic to global scales. The course begins with review of elementary principles of continuum mechanics and continues with a discussion of deformation mechanisms commonly observed in earth materials. The geometry, kinematics, and mechanics of faults,

folds, are then addressed and the class ends with a description of the tectonic setting of structural families such as thrust belts, rift provinces, and zones of strike slip deformation. A weekend field trip to a region of spectacular folding and thrusting provides and opportunity to apply the concepts learned in lecture.

**[EAS 4340 Exploration Geophysics (PBS)]**

Fall. 3 credits. Prerequisites: MATH 1920 and PHYS 2208, 2213, or equivalent. Offered alternate years; next offered 2010-2011. L. D. Brown.

Fundamentals of subsurface imaging by geophysical methods as used in oil exploration and environmental investigations.]

**[EAS 4350 Statistical Methods in Meteorology and Climatology (MQR)]**

Fall. 3 credits. Prerequisites: one introductory course in each of statistics (e.g., AEM 2100) and calculus. D. S. Wilks. Statistical methods used in climatology, operational weather forecasting, and selected meteorological research applications. Includes statistical characteristics of meteorological data, including probability distributions and correlation structures. Covers operational forecasts derived from multiple regression models, including the MOS system; and forecast evaluation techniques.

**[EAS 4370 Geophysical Field Methods (also ARKEO 4370) (PBS)]**

Fall. 3 credits. Prerequisite: PHYS 2208 or 2213, or permission of instructor. Offered alternate years. L. D. Brown.

Field exercises using geophysical techniques to probe the subsurface.

**[EAS 4400 Seminar on Climate Change Science, Impacts, and Mitigation]**

Fall. 2 credits. Prerequisites: junior or higher standing. Offered alternate years; next offered 2010-2011. N. Mahowald.]

**[EAS 4470 Physical Meteorology (PBS)]**

Fall. 3 credits. Prerequisites: one year each of calculus and physics. Offered alternate years. A. T. DeGaetano.

Primarily a survey of natural phenomena of the atmosphere, with emphasis on their underlying physical principles. Topics include an introduction to atmospheric radiation processes; atmospheric optics and electricity; microphysical cloud processes; and principles of radar probing of the atmosphere.

**[EAS 4510 Synoptic Meteorology II (PBS)]**

Fall. 3 credits. Prerequisites: EAS 3410 and 3420. S. J. Colucci.

Structure and dynamics of large-scale, mid-latitude weather systems, such as cyclones, anticyclones, and waves, with consideration of processes that contribute to temperature changes and precipitation. Lab sessions involve real-time weather forecasting and the computer application of a numerical model of the atmosphere to study selected large-scale, mid-latitude weather events.

**[EAS 4530 Mineralogy (PBS)]**

Fall. 4 credits. Prerequisite: CHEM 2070 or 2090 or permission of instructor. S. Mahlburg Kay.

Chemical and physical properties and identification of minerals with emphasis on the rock-forming minerals that are the principal constituents of the Earth and nearby planets. Topics include internal and external crystallography, crystal chemistry, introductions to x-ray crystallography and

optical mineralogy, and a systematic examination of the structures, chemistry, and occurrence of the rock-forming minerals. Independent project includes use of electron microprobe (EPMA) and x-ray facilities.

**[EAS 4540 Petrology and Geochemistry (PBS)]**

Spring. 3-4 credits. Prerequisite: EAS 4530. Offered alternate years, next offered 2010-2011. R. W. Kay.

Principles of phase equilibrium as applied to igneous and metamorphic systems. Distribution of trace elements and isotopes as used to define processes and chronologies. Kinetics, reaction pathways and textural and mineralogical characterization. Geochemistry, origin and dating of igneous and metamorphic rocks as applied the formation and evolution of the earth, terrestrial planets and meteorites.]

**[EAS 4550 Geochemistry (PBS)]**

Fall. 4 credits. Prerequisites: CHEM 2070 or 2090 and MATH 1920 or equivalent. Recommended: EAS 3040. Offered alternate years. W. M. White.

The Earth from a chemical perspective. Covers the formation of the elements; cosmochemistry; chemical evidence regarding the formation of the Earth and solar system; trace-element geochemistry; isotope geochemistry; geochemical thermodynamics and kinetics; chemical evolution of the crust, mantle, and core; weathering and the chemistry of natural waters; chemistry of rivers and the oceans; hydrothermal systems; and ore deposition.

**[EAS 4560 Mesoscale Meteorology (PBS)]**

Spring. 3 credits. Prerequisites: EAS 3410 and 3420 or permission of instructor. S. J. Colucci.

**[EAS 4570 Atmospheric Air Pollution (PBS)]**

Fall. 3 credits. Prerequisites: EAS 3410 or thermodynamics course, and one semester of chemistry, or permission of instructor. Offered alternate years; next offered 2010-2011. M. W. Wysocki.]

**[EAS 4580 Volcanology (PBS)]**

Fall. 3 credits. Prerequisite: EAS 3040 or equivalent. Offered alternate years; next offered 2010-2011. R. W. Kay.

Causes of volcanism, melting in the Earth, and the origin of magmas. Physical volcanology, nature and types of volcanic eruptions and associated deposits, and eruption mechanisms.]

**[EAS 4600 Late Quaternary Paleoecology (also ARKEO 4600) (PBS)]**

Fall. 4 credits. Offered alternate years; next offered 2010-2011. M. Goman.

Explores topics in Late Quaternary paleoecology. The field research provides students with hands-on experience in sediment core collection; while in the laboratory students learn the basics of core description, pollen, and macrofossil analysis.]

**[EAS 4610 Paleoclimate: Since the Last Ice Age (PBS)]**

Fall. 3 credits. Prerequisites: EAS 2200 or permission of instructor. Offered alternate years. M. Goman.

This course examines changes and variability in climate for the last 21,000 years.

**[EAS 4620 Marine Ecology (also BIOEE 4620) (PBS)]**

Fall. 3 credits. Limited to 75 students.

Prerequisite: BIOEE 2610. Offered alternate years; next offered 2010-2011.

C. D. Harvell and C. H. Greene.

For description, see BIOEE 4620.]

**[EAS 4700 Weather Forecasting and Analysis (PBS)]**

Spring. 3 credits. Prerequisites: EAS 3520 and 4510. TBA. M. W. Wysocki.

Applied course with an opportunity to focus on weather forecasting and analysis techniques for various regions around the world. Lectures emphasize the application of student's knowledge of atmospheric dynamics, thermodynamics, and computer-data analysis to forecast the development and movement of multiscale weather systems. Students participate in weekly forecast discussions, write daily forecasts that include a synoptic discussion, quantitative precipitation forecasts, and severe-weather outlook for the forecast region, and lead class discussion on assigned readings.

**[EAS 4710 Intro to Groundwater (also BEE 4710) (PBS)]**

Spring. 3 credits. Prerequisite: MATH 2930 and fluid mechanics or hydrology course.

Offered alternate years; next offered 2010-2011. L. Cathles and T. Steenhuis.

Intermediate-level study of aquifer geology, groundwater flow, and related design factors. Includes description and properties of natural aquifers, groundwater hydraulics, soil water, and solute transport.]

**[EAS 4750 Special Topics in Oceanography]**

Fall, spring, summer. 2-6 credits, variable.

Prerequisites: one semester of oceanography and permission of instructor. Fall, spring: C. H. Greene; summer: B. C. Monger.

Undergraduate instruction and participation in advanced areas of oceanographic research. Topics change from semester to semester. Contact instructor for further information.

**[EAS 4760 Sedimentary Basins (PBS)]**

Spring. 3 credits. Prerequisite: EAS 3010 or permission of instructor. Offered alternate years. T. E. Jordan.

Focus on the physical characteristics of sedimentary basins, which host fossil fuels and groundwater, and can potentially store CO<sub>2</sub>.

**[EAS 4780 Advanced Stratigraphy (PBS)]**

Fall. 3 credits. Prerequisite: EAS 3010 or permission of instructor. Offered alternate years; next offered 2010-2011. T. E. Jordan.

Covers modern improvements on traditional methods of the study of ages and of genetic relations among sedimentary rocks, emphasizing 3-D relationships. Introduces techniques and applications of sequence stratigraphy.]

**[EAS 4790 Paleobiology (also BIOEE 4790) (PBS)]**

Spring. 4 credits. Prerequisites: one year of introductory biology and either BIOEE 2740, 3730, EAS 3010, or permission of instructor. W. Allmon.

Surveys the major groups of organisms and their evolutionary histories. Intended to fill out the biological backgrounds of Earth and atmospheric science students concerning the nature and significance of the fossil record for their respective studies.

**EAS 4800 Our Changing Atmosphere: Global Change and Atmospheric Chemistry (also BEE 4800) (PBS)**

Fall. 3 credits. Prerequisites: CHEM 2090, MATH 1920, PHYS 1112, or equivalent, or permission of instructor. S–U or letter grades. P. G. Hess.

**EAS 4820 Atmospheric Modeling**

Spring. 3 credits. Prerequisite: differential equations, introductory computer background, junior standing or above, or permission of instructor. S–U or letter grades. N. Mahowald.

Climate and numerical weather prediction models are important tools for policy and science. This course describes the basic principles of the numerics in these models, including finite difference, spectral methods, and subgrid parameterizations. Included will be a discussion of numerical stability and verification of models.

**[EAS 4830 Land, Water, Agriculture, and Environment (also CSS 4830) (PBS)]**

Spring. 3 credits. Prerequisite: CSS 2600 or equivalent calculus. Next offered 2010–2011. H. Van Es and S. J. Riha.

For description, see CSS 4830.]

**[EAS 4840 Inverse Methods in the Natural Sciences (PBS)]**

Fall. 3 credits. Prerequisite: MATH 2940. Next offered 2010–2011. D. Hysell.

An exploration of solution methods for inverse problems with examples taken from geophysics and related fields, with particular attention to making inferences from inaccurate, incomplete, or inconsistent physical data.]

**EAS 4870 Introduction to Radar Remote Sensing (also ECE 4870) (PBS)**

Spring. 3 credits. Prerequisite: PHYS 2208 or 2213 or equivalent or permission of instructor. D. L. Hysell.

Covers the fundamentals of radar, antennas, and remote sensing. Students are exposed to the principles underlying the analysis and design of antennas used for communication and for radar-related applications. They also encounter both a mathematical and a practical description of how radars function, how their performance can be optimized for different applications, and how signals acquired by them can be processed. The objective is to familiarize students with a wide variety of radars rather than turn them into practicing radar engineers. Each topic is developed from basic principles so students with a wide variety of backgrounds are able to take the course. Emphasis is placed on radar applications in geophysics, meteorology and atmospheric sciences, astronomy and space sciences. Radar remote sensing of the Earth from spacecraft receives special attention.

**EAS 4880 Global Geophysics (PBS)**

Spring. 3 credits. Prerequisites: MATH 1920 (or 1120) and PHYS 2208 or 2213. Offered alternate years. M. Pritchard and R. Lohman.

Covers global tectonics and the deep structure of the solid Earth as revealed by investigations of earthquakes, earthquake waves, the Earth's gravitational and magnetic fields, and heat flow.

**EAS 4910–4920 Undergraduate Research**

Fall, spring. 1–4 credits. Students must complete form at 2124 Snee Hall. Staff. (J. L. Cisne, coordinator).

Introduction to the techniques and philosophy of research in the earth sciences and an

opportunity for undergraduates to participate in current staff research projects. Topics chosen in consultation with, and guided by, a staff member. A short written report is required, and outstanding projects are prepared for publication.

**EAS 4940 Special Topics in Atmospheric Science (undergraduate level)**

Fall, spring. 8 credits max. S–U or letter grades. Staff.

The department teaches "trial" courses under this number. Offerings vary by semester and are advertised by the department before the beginning of the semester. The same course is not offered more than twice.

**EAS 4960 Internship Experience**

Fall, spring. 1–2 credits. Prerequisites: EAS 3400; enrollment in Earth and Environmental Sciences Semester in Hawaii. S–U grades only. A. Moore.

During the last three and a half weeks of the semester students carry out a service learning project with a local NGO, environmental business, government agency, research lab, or educational facility. Projects are carefully designed with the student, sponsoring agency, and faculty member. A final report is required.

**EAS 4970 Individual Study in Atmospheric Science**

Fall or spring. 1–6 credits. S–U grades only. Students must register using independent study form. Staff.

Topics are arranged at the beginning of the semester for individual study or for group discussions.

**EAS 4980 Teaching Experience in Earth and Atmospheric Sciences**

Fall, spring. 1–4 credits. S–U grades only. Staff.

The student assists in teaching an EAS course appropriate to his or her previous training. The student meets with a discussion or laboratory section, prepares course materials, grades assignments, and regularly discusses course objectives and teaching techniques with the faculty member in charge of the course.

**EAS 4990 Undergraduate Research in Atmospheric Science**

Fall or spring. Credit TBA. S–U grades only. Students must register using independent study form. Staff.

Independent research on current problems in atmospheric science.

**EAS 5000 Design Project in Geohydrology**

Fall, spring; may continue over two or more semesters. 3–12 credits. Alternative to industrial project for M.Eng. students choosing geohydrology option. L. M. Cathles.

**EAS 5020 Case Histories in Groundwater Analysis**

Spring. 4 credits. L. M. Cathles.

Groundwater flow in a specific area, such as a proposed nuclear-waste disposal site, is analyzed in depth. Geological and resource data on the area are presented early in the course. Then the material is analyzed by students working as an engineering analysis team. Each student makes a weekly progress report and writes part of a final report. Results are presented in a half-day seminar at the end of term.

**EAS 5050 Fluid Dynamics in the Earth Sciences**

Spring. 3 credits. Prerequisites: MATH through 2940, PHYS through 2208 or 2214 or permission of instructor. Offered alternate years. L. Cathles and M. Wysocki.

The Earth System provides fascinating examples of fluid dynamic phenomena such as turbulent convection in the outer core; convection in the viscous mantle, which drives crustal plates and causes volcanism and earthquakes; rapid flows in the atmosphere and oceans, which impact climate; and electromagnetic effects in the solar wind and magnetosphere. This course investigates the Earth using fluid dynamics. Students in Earth Sciences will gain insights provided by fluid dynamics. Students from other fields will see spectacular applications and learn about the Earth System in a different and fundamental way.

**EAS 5110 Earth System Interactions**

Fall. 1 credit (S–U grades) or 2 credits (w/paper, letter grades). Prerequisite: permission of instructor. J. L. Cisne.

New ways of conceptualizing, characterizing, and measuring phenomena can be quite as important as new instruments or empirical discoveries in opening new areas to exploration or established ones to more rigorous investigation. This seminar aims to prepare seniors and beginning graduate students for independent research on Earth systems by analyzing examples ranging from epoch-making classics to work now appearing in the literature.

**EAS 5220 Advanced Structural Geology I**

Fall. 3 credits. Prerequisites: EAS 4260 and permission of instructor. Offered alternate years. R. W. Allmendinger and C. Andronicos.

**EAS 5240 Advanced Structural Geology II**

Fall. 3 credits. Prerequisites: EAS 4260 and permission of instructor. Offered alternate years. R. W. Allmendinger.

Geometry, kinematics, and mechanics of structural provinces. Concentrates on thrust belts, rift provinces, or strike-slip provinces.

**EAS 5530 Advanced Petrology**

Fall. 3 credits. Prerequisite: EAS 4540. Offered alternate years. R. W. Kay.

**EAS 5540 Advanced Mineralogy**

Spring. 3 credits. Prerequisites: EAS 4530 or permission of instructor. Offered alternate years. S. Mahlburg Kay.

Advanced crystallography and crystal chemistry of minerals and methods of their study. Intended to follow EAS 4530 or equivalent. Includes X-ray diffraction, optical and electron microprobe methods and can include other more advanced techniques. Concentration is on chemistry and structures of minerals and their use in understanding the thermal and pressure structure and evolution of the Earth and other planets. Includes an individual research project.

**[EAS 5750 Planetary Atmospheres (also ASTRO 6575)]**

Fall. 4 credits. Prerequisites: undergraduate physics, vector calculus. Offered alternate years; next offered 2010–2011. P. Gierasch. For description, see ASTRO 6575.]

**EAS 5770 Planetary Surface Processes (also ASTRO 6577)**

Spring. 3 or 4 credits. Offered alternate years. J. Bell.

For description, see ASTRO 6577.

**[EAS 5780 Planet Formation and Evolution (also ASTRO 6578)]**

Fall. 4 credits. Next offered 2010-2011.  
J. L. Margot and M. Pritchard.  
For description, see ASTRO 6578.]

**[EAS 5840 Inverse Methods in the Natural Sciences]**

Fall. 3 credits. Prerequisite: MATH 2940.  
Next offered 2010-2011. D. L. Hysell.  
An exploration of solution methods for inverse problems with examples taken from geophysics and related fields, with particular attention to making inferences from inaccurate, incomplete, or inconsistent physical data.]

**[EAS 5880 Advanced Methods in Radar (also ECE 5890)]**

Fall. 3 credits. Prerequisite: EAS 4870 or permission of instructor. D. Hysell.  
This course will address the theory and practice of advanced radar techniques used for remote sensing, with emphasis placed on studying the upper atmosphere and ionosphere. Roughly the first half of the course will be devoted to incoherent scatter theory, the theory that relates the statistics of the signals scattered from an ionospheric plasma to the state variables that describe the plasma. The second half of the course will examine methods for measuring ionospheric parameters using incoherent scatter theory in concert with advanced radar modes and data analysis techniques. Students taking this course should be familiar with radar fundamentals and plasma kinetic theory.

**[EAS 6280 Geology of Orogenic Belts]**

Spring. 3 credits. Prerequisite: permission of instructor. Staff.

**[EAS 6410 Analysis of Biogeochemical Systems]**

Spring. 3 credits. Prerequisite: MATH 2930 or permission of instructor. Offered alternate years; next offered 2010-2011.  
L. A. Derry.  
Covers dynamics of biogeochemical systems; kinetic treatment of biogeochemical cycles; box models, residence time, response time; analytical and numerical solutions of model systems.]

**[EAS 6480 Air Quality and Atmospheric Chemistry (also MAE 6480)]**

Fall. 3 credits. Prerequisites: first-year chemistry and thermodynamics (or equivalent) and fluid mechanics (or equivalent); graduate standing or permission of instructor. K. M. Zhang.  
Factors determining air quality and effects of air pollutants on public health, ecological systems, and global climate change.

**[EAS 6520 Advanced Atmospheric Dynamics (also ASTRO 7652)]**

Spring. 3 credits. Prerequisites: EAS 3410 and 3420 or equivalent. S. J. Colucci.

**[EAS 6560 Isotope Geochemistry]**

Spring 3 credits. Open to undergraduates. Prerequisite: EAS 4550 or permission of instructor. Offered alternate years; next offered 2010-2011. W. M. White.  
Nucleosynthetic processes and the isotopic abundance of the elements; geochronology and cosmochronology using radioactive decay schemes.]

**[EAS 6660 Applied Multivariate Statistics]**

Spring. 3 credits. Prerequisites: multivariate calculus, matrix algebra, and two statistics courses. Offered alternate years; next offered 2010-2011. D. S. Wilks.]

**[EAS 6750 Modeling the Soil-Plant-Atmosphere System (also CSS 6750)]**

Spring. 3 credits. Prerequisite: CSS/EAS 4830 or equivalent. S. J. Riha.

**[EAS 6920 Special Topics in Atmospheric Science]**

Fall or spring. 1-6 credits. S-U or letter grades. Staff.  
Study of topics in atmospheric science that are more specialized or different from other courses. Special topics covered depend on staff and student interests.

**[EAS 6930 Special Topics in Geological Sciences]**

Fall or spring. 1-3 credits, variable. S-U or letter grades. Staff.  
Study of specialized advanced topics in the Earth sciences through readings from the scientific literature, seminars, and discussions.

**[EAS 7000-7990 Seminars and Special Work]**

Fall, spring. 1-3 credits. Prerequisite: permission of instructor. Staff.  
Advanced work on original investigations in earth and atmospheric sciences. Topics change from semester to semester. Students should contact appropriate professor for more information.

**[EAS 7010-7020 Thesis Research]**

7010, fall; 7020, spring. 1-15 credits, variable. Staff.

**[EAS 7110 Upper Atmospheric and Space Physics]**

Fall or spring. 1-6 credits. Seminar course.  
D. L. Hysell.

**[EAS 7220 Advanced Topics in Structural Geology]**

R. W. Allmendinger.

**[EAS 7310 Advanced Topics in Remote Sensing and Geophysics]**

M. Pritchard.

**[EAS 7330 Advanced Topics in Geodynamics]**

Spring. J. Phipps Morgan.

**[EAS 7500 Satellite Remote Sensing in Biological Oceanography]**

Summer. 3 credits. B. C. Monger.  
The intensive summer course meets from 9 a.m. to 5 p.m. for a two-week period. The goal of the course is to teach participants the skills needed to work independently to acquire data sets derived from a variety of satellite sensors (SeaWiFS, MODIS, AVHRR, SeaWinds and Topex-Poseidon) and to merge these data sets to examine biological response to changes in the physical environment. Course time is split equally between lectures and computer lab work. Lectures cover the fundamentals of bio-optics, pigment algorithms, primary production algorithms and the underlying physical principals leading to the measurement of sea surface temperature, ocean wind speed and ocean topography. Computer labs focus on developing the IDL (Research Systems, Inc.) programming skills needed to process, analyze and visualize satellite image data. See the course syllabus for more details on the topics covered in this course.

**[EAS 7510 Petrology and Geochemistry]**

R. W. Kay.

**[EAS 7550 Advanced Topics in Geodynamics]**

Fall. 3 credits. J. Phipps Morgan.

**[EAS 7570 Current Research in Petrology and Geochemistry]**

S. Mahlburg Kay.

**[EAS 7620 Advanced Topics in Paleobiology]**

W. D. Allmon.

**[EAS 7650 Topics in Paleocology]**

Fall. 1 credit. S-U grades only. G. Dietl.

**[EAS 7710 Advanced Topics in Sedimentology and Stratigraphy]**

T. E. Jordan.

**[EAS 7730 Paleobiology]**

J. L. Cisne.

**[EAS 7750 Advanced Topics in Oceanography]**

C. H. Greene.

**[EAS 7800 Earthquake Record Reading]**

Fall. M. Barazangi and R. Lohman.

**[EAS 7810 Advanced Topics in Exploration Geophysics]**

L. D. Brown.

**[EAS 7930 Andes-Himalayas Seminar]**

S. Mahlburg Kay, R. W. Allmendinger, M. Pritchard, and T. E. Jordan.

**[EAS 7950 Low Temperature Geochemistry]**

1-3 credits. S-U letter grades. L. A. Derry.

**[EAS 7960 Geochemistry of the Solid Earth]**

W. M. White.

**[EAS 7970 Fluid-Rock Interactions]**

L. M. Cathles.

**[EAS 7990 Soil, Water, and Geology Seminar]**

Spring. L. M. Cathles and T. S. Steenhuis.

**[EAS 8500 Master's-Level Thesis Research in Atmospheric Science]**

Fall or spring. Credit by arrangement. S-U grades only. Hours by arrangement. Graduate faculty.  
Limited to students specifically in the master's program in atmospheric science.

**[EAS 9500 Graduate-Level Dissertation Research in Atmospheric Science]**

Fall or spring. Credit by arrangement. S-U or letter grades. Hours by arrangement. Graduate faculty.  
Limited to students in the atmospheric science Ph.D. program *only before* "A" exam has been passed.

**[EAS 9510 Doctoral-Level Dissertation Research in Atmospheric Science]**

Fall or spring. Credit by arrangement. S-U or letter grades. Hours by arrangement. Graduate faculty.  
Limited to students admitted to candidacy in the atmospheric science Ph.D. program *after* "A" exam has been passed.

## EAST ASIA PROGRAM

140 Uris Hall

Director: D. X. Warner. Academic: D. Boucher, A. Carlson, J. Chen, Z. Chen, S. G. Cochran, B. de Bary, S. Divo, G. Fields, M. Fiskejo, E. Gunn, T. J. Hinrichs, K. Hirano, J. Kanemistu, P. J. Katzenstein, J. V. Koschmann, J. M. Law, P. Liu, T. P. Lyons, S. Martin, D. McKee, R. McNeal, A. Mertha, H. Miyazaki, V. Nee, A. Pan, L. Paterson, A. Riles, B. Rusk, N. Sakai, P. S. Sangren, M. Shin, R. J. Sukle, K. Taylor, H. Wan, Q. Wang, J. Whitman, X. Xu, H. Yan, L. Zheng. Language: E. Akamatsu, M. Chapman, J. Choi, W. S. George, H. Hong, S. Ichikawa, H. Jeong, Y. Katagiri, S. Lai, N. Larson, F. Li, X. Li, C. Liao, F. L. Mehta, W. Shao, M. Song, M. Suzuki, Q. Teng, L. Xu, Y. Yamasaki. Emeritus: R. Barker, K. W. Brazell, T. C. Campbell, E. H. Jorden, T. L. Mei, C. Peterson, V. Shue, R. J. Smith, M. W. Young

Cornell's East Asia Program, charged with fostering knowledge of the histories, cultures, and contemporary affairs of East Asia (China, Japan, and Korea), serves as a cross-campus clearinghouse for information and is a focal unit for all of the university's East Asia-related students, faculty, community outreach, and public activities. Courses are offered through departments in the humanities and social sciences, business, city and regional planning, international and comparative labor relations, and rural sociology. A minor in East Asian Studies is offered in the Department of Asian Studies, and students enrolled in the minor are considered members of the East Asia Program. The program also offers a number of East Asia-related activities throughout the year, designed to promote awareness and enjoyment of East Asian cultures on the Cornell campus. Recognized as a National Resource Center (NRC) by the United States Department of Education, the Program is nationally renowned as one of the country's premier center for teaching and research on East Asia and in promoting advanced foreign language training in Mandarin, Cantonese, Korean, and Japanese; areal and international knowledge in the liberal arts and applied disciplines focused on East Asia. In addition, EAP was recently awarded a Foreign Language and Area Studies (FLAS) grant by US/ED. Together with the NRC funding, the FLAS fellowship program supports graduate students who wish to acquire a high level of competence in languages critical to the national needs of the United States and a fuller understanding of the areas, regions, or countries in which that language is used.

## ECONOMICS

K. Basu, chair; T. Mitra, director of graduate studies; T. Lyons, director of undergraduate studies; T. Bar, L. Barseghyan, D. Benjamin, J. Berry, G. Besharov, L. Blume, R. Burkhauser, S. Coate, D. Easley, R. Ehrenberg, L. Falkson, G. Fields, A. Guerdjikova, G. Hay, Y. Hong, R. Kanbur, N. Kiefer, T. Lyons, M. Majumdar, K. Mertens, T. Mitra, F. Molinari, T. O'Donoghue, U. Possen, A. Razin, D. Sahn, K. Shell, V. Tsyrennikov, H. Y. Wan, Jr., J. Wissink. Emeritus: T. E. Davis, W. Isard, A. Kahn, P. D. McClelland, R. E. Schuler, G. Staller, E. Thorbecke, J. Vanek

The study of economics provides an understanding of the way economies operate and an insight into public issues. The department

offers a broad range of undergraduate courses in such fields as money and banking; international and comparative economics; econometrics; theory; history; growth and development; and the organization, performance, and control of industry.

### The Major

#### Prerequisites

ECON 1110 and 1120 and MATH 1110 (or equivalents) are required, all with grades of C or better; MATH 1120 (or equivalent) is recommended.

ECON 3010 with a grade of C or better substitutes for 1110; ECON 3020 with a grade of C or better substitutes for 1120.

#### Requirements

Eight courses listed by the Department of Economics at the 3000 level or above, or approved by the student's major advisor, all with grades of C- or better. (S-U grade option is not allowed.)

These eight courses must include:

1. ECON 3130 and 3140
2. ECON 3210, or ECON 3190 and 3200 (ECON 3130, 3140, 3210 or 3190, 3200 should be completed before senior year.)
3. at least three courses from the following: ECON 3180, 3200, 3220-3990

ECON 3010 with a grade of B or better substitutes for both 1110 and 3130; ECON 3020 with a grade of B or better substitutes for both 1120 and 3140.

If ECON 3210 is applied toward the major, neither 3190 nor 3200 can be applied.

ECON 4980 and 4990 *cannot* be counted toward the eight-course requirement.

If ECON 3130 is applied to the major, ECON 3010 cannot be.

If ECON 3140 is applied to the major, ECON 3020 cannot be.

If both ECON 3670 and ECON 3680 are taken, only one can be applied to the major.

#### Honors Program

An honors program is currently being offered. Students should consult the director of undergraduate studies before May of their junior year for more information.

#### Recommended Courses

Students planning graduate work in economics should select ECON 3190-3200 rather than 3210 and should consider including some of the following courses in their majors:

ECON 3670 (Game Theoretic Methods) or ECON 3680 (Game Theory)

ECON 4160 (Intertemporal Economics)

ECON 4190 (Economic Decisions under Uncertainty)

Students planning careers in business management should consider including some of the following courses in their majors:

ECON 3330 (Financial Economics)

ECON 3510 or 3520 (Industrial Organization)

ECON 3580 (Behavioral Economics)

ECON 3610-3620 (International Trade and Finance)

ECON 4430 (Compensation, Incentives, and Productivity)

In addition to completing the economics major, such students should also consider courses in accounting and subjects such as finance, marketing, entrepreneurship, business administration, and business law. Courses in these subjects are offered by the Department of Applied Economics and Management, the School of Hotel Administration, and the Johnson Graduate School of Management.

Students planning to attend law school should consider including some of the following courses in their majors:

ECON 3510 or 3520 (Industrial Organization)

ECON 3610-3620 (International Trade and Finance)

ECON 4040 (Economics and the Law)

In addition to completing the economics major, such students should inquire at Career Services, College of Arts and Sciences, concerning recommended courses offered by other departments.

In regard to ECON 1110, 3010, and 3130, college credit applies as follows:

- a. If 3010 is taken and a grade of B or better is earned, it alone can only receive college credit.
- b. If 3010 is not taken, either or both 1110 and 3130 can receive college credit.
- c. If 3010 is taken and a grade of less than B is earned, only 3010 and 3130 can receive college credit.

In regard to ECON 1120, 3020, and 3140, college credit applies as follows:

- a. If 3020 is taken and a grade of B or better is earned, it alone can only receive college credit.
- b. If 3020 is not taken, either or both 1120 and 3140 can receive college credit.
- c. If 3020 is taken and a grade of less than B is earned, only 3020 and 3140 can receive college credit.

## Courses

### ECON 1001 Academic Support for ECON 1110

Fall, spring. 1 transcript credit only; cannot be used toward graduation.

Reviews lecture material presented in ECON 1110 lectures; provides problem-solving techniques, study tips, and additional problems to prepare for exams and problem sets; provides additional time for questions and discussion of concepts. Provides additional instruction for students who need reinforcement.

### ECON 1002 Academic Support for ECON 1120

Fall, spring. 1 transcript credit only; cannot be used toward graduation.

Reviews lecture material presented in ECON 1120 lectures; provides problem-solving techniques, study tips, and additional problems to prepare for exams and problem sets; provides additional time for questions and discussion of concepts. Provides additional instruction for students who need reinforcement.

**ECON 1110 Introductory Microeconomics (SBA-AS)**

Fall, spring, winter, and summer. 3 credits. *ECON 1110 is not a prerequisite for 1120. Students may not receive credit for both ECON 1110 and HADM 1141. Students who take ECON 1110 and ECON 3130 may not receive credit for ECON 3010 or PAM 2000.*

Explanation and evaluation of how the price system operates in determining what goods are produced, how goods are produced, who receives income, and how the price system is modified and influenced by private organizations and government policy.

**ECON 1120 Introductory Macroeconomics (SBA-AS)**

Fall, spring, winter, and summer. 3 credits. *ECON 1110 is not a prerequisite for 1120. Students who take ECON 1120 and 3140 may not receive credit for ECON 3020.*

Analysis of aggregate economic activity in relation to the level, stability, and growth of national income. Topics may include the determination and effects of unemployment, inflation, balance of payments, deficits, and economic development, and how these may be influenced by monetary, fiscal, and other policies.

**ECON 2040 Networks (also CS 2850, INFO 2040, SOC 2090) (SBA-AS)**

Spring. 4 credits.

This interdisciplinary course examines network structures and how they matter in everyday life. The course examines how each of the computing, economic, sociological and natural worlds are connected and how the structure of these connections affects each of these worlds. Tools of graph theory and game theory are taught and then used to analyze networks. Topics covered include the web, the small world phenomenon, markets, neural networks, contagion, search and the evolution of networks.

**ECON 2300 International Trade and Finance (SBA-AS)**

Cannot be applied to ECON major.

For description, see AEM 2300.

**ECON 3010 Microeconomics (SBA-AS)**

Fall. 4 credits. Prerequisite: calculus. *Students who take ECON 1110 and ECON 3130 may not receive credit for ECON 3010 or PAM 2000.*

Intended for students with strong analytical skills who have not taken ECON 1110, 1120. May be used to replace both ECON 1110 and 3130 (may replace 3130 only with grade of B or better). Covers the topics taught in ECON 1110 and 3130. An introduction to the theory of consumer and producer behavior and to the functioning of the price system.

**ECON 3020 Macroeconomics (SBA-AS)**

Spring. 4 credits. May be used to replace both ECON 1120 and 3140 (may replace 3140 only with grade of B or better). *Students who take ECON 1120 and 3140 may not receive credit for ECON 3020.*

Prerequisite: calculus.

Intended for students with strong analytical skills who have not taken ECON 1110, 1120. Covers the topics taught in ECON 1120 and 3140. An introduction to the theory of national income determination, unemployment, growth, and inflation.

**ECON 3130 Intermediate Microeconomic Theory (SBA-AS)**

Fall, spring, and summer. 4 credits. *Students who take ECON 1110 and ECON 3130 may not receive credit for ECON 3010 or PAM 2000.* Prerequisites: ECON 1110-1120 and calculus.

The pricing processes in a private enterprise economy are analyzed under varying competitive conditions, and their role in the allocation of resources and the functional distribution of national income is considered.

**ECON 3140 Intermediate Macroeconomic Theory (SBA-AS)**

Fall, spring, and summer. 4 credits. *Students who take ECON 1120 and 3140 may not receive credit for ECON 3020.* Prerequisites: ECON 1110-1120 and calculus.

Introduces the theory of national income and determination and economic growth in alternative models of the national economy. Examines the interaction and relation of these models to empirical aggregate economic data.

**ECON 3190 Introduction to Statistics and Probability (MQR)**

Fall and spring. 4 credits. *Students who take ECON 3190 may not receive credit for MATH 4710 or BTRY 4080. Students who take ECON 3190 may not receive credit for MATH 4720 or BTRY 4090.* Prerequisites: ECON 1110-1120 and MATH 1110-1120.

Provides an introduction to statistical inference and to principles of probability. It includes descriptive statistics, principles of probability, discrete and continuous distributions, and hypothesis testing (of sample means, proportions, variance). Regression analysis and correlation are introduced.

**ECON 3200 Introduction to Econometrics (MQR)**

Fall and spring. 4 credits. *Students may not receive credit for both ECON 3200 and ECON 3210.* Prerequisites: ECON 1110-1120, 3190, or equivalent.

Introduction to the theory and application of econometric techniques. How econometric models are formulated, estimated, used to test hypotheses, and used to forecast; understanding economists' results in studies using regression model, multiple regression model, and introduction to simultaneous equation models.

**ECON 3210 Applied Econometrics (MQR)**

Fall and spring. 4 credits. *Students may not receive credit for both ECON 3200 and ECON 3210.* Prerequisites: ECON 1110-1120 and calculus.

Provides an introduction to statistical methods and principles of probability. Topics include analysis of data, probability concepts and distributions, estimation and hypothesis testing, regression, correlation and time series analysis. Applications from economics are used to illustrate the methods covered in the course.

**ECON 3230 American Economic History (also AMST 3230) # (SBA-AS)**

Fall. 4 credits. Prerequisite: ECON 1110-1120 or equivalent.

Surveys problems in American economic history from the first settlements to early industrialization.

**[ECON 3240 American Economic History # (SBA-AS)**

Spring. 4 credits. Prerequisites: ECON 1110-1120 or equivalent. Next offered 2010-2011.

Surveys problems in American economic history from the Civil War to World War I.]

**ECON 3310 Money and Credit (SBA-AS)**

Fall. 4 credits. Prerequisites: ECON 1110-1120 and 3140.

A systematic treatment of the determinants of the money supply and the volume of credit. Economic analysis of credit markets and financial institutions in the United States.

**ECON 3330 Financial Economics (SBA-AS)**

Spring. 4 credits. Prerequisites: ECON 3130 and 3140.

Examines the theory and decision making in the presence of uncertainty and the practical aspects of particular asset markets.

**ECON 3350 Public Finance: The Microeconomics of Government (SBA-AS)**

Fall. 4 credits. Prerequisites: ECON 1110-1120 and 3130, or equivalent, and one semester of calculus.

Analyzes the role of government in a free market economy. Topics include public goods, market failures, allocation mechanisms, optimal taxation, effects of taxation, and benefit-cost analysis. Current topics of an applied nature vary from semester to semester.

**ECON 3360 Public Finance: Resource Allocation and Fiscal Policy (SBA-AS)**

Spring. 4 credits. Prerequisites: ECON 1110-1120, 3130 or equivalent and one semester of calculus. Covers the revenue side of public finance and special topics. Subjects include the federal debt, the budget, and government regulation and transfers, as well as problems like local public goods, health care, education, the hierarchy of governmental structure, plus a variety of applied problems.

**ECON 3410 Labor Market Analysis (SBA-AS)**

For description, see ILRLE 4400.

**ECON 3440 Development of Economic Thought and Institutions**

For description, see ILRLE 3440.

**ECON 3470 Economics of Education**

For description, see ILRLE 6470.

**ECON 3510 Industrial Organization I (SBA-AS)**

Fall. 4 credits. *Students may not receive credit for both ECON 3510 and AEM 4320.* Prerequisite: ECON 3130 or equivalent.

Examines markets with only a few firms (i.e., oligopolies), and the primary focus is the strategic interactions between firms. Topics include static competition in oligopolies, cartels and other forms of collusive behavior, competition between firms producing differentiated products, entry behavior, RD behavior, and government interventions in oligopoly industries (e.g., antitrust laws).

**ECON 3520 Industrial Organization II (SBA-AS)**

Spring. 4 credits. Prerequisite: ECON 3130 or equivalent.

Focuses primarily on the pricing decisions of firms. The course does not consider the strategic response of other firms to these pricing decisions. The pricing decisions include price discrimination, commodity bundling, pricing a product line and pricing a durable good. In addition to pricing decisions, the course considers topics associated with private information such as adverse selection,

signaling, and moral hazard. Numerous theoretical models are presented and empirical results are discussed.

**ECON 3580 Behavioral Economics (SBA-AS)**

Spring. 4 credits. Prerequisite: ECON 3130. Introduces students to behavioral economics, an emerging subfield of economics that incorporates insights from psychology and other social sciences into economics. Examines evidence on how human behavior systematically departs from the standard assumptions of economics, and also investigates attempts by behavioral economists to improve economic analyses.

**ECON 3610 International Trade Theory and Policy (SBA-AS)**

Fall. 4 credits. Prerequisites: ECON 1110–1120 and 3130. Surveys the sources of comparative advantage. Studies commercial policy and analyzes the welfare economics of trade between countries. Some attention is paid to the institutional aspects of the world trading system.

**ECON 3620 International Monetary Theory and Policy (SBA-AS)**

Spring and summer. 4 credits. Prerequisites: ECON 1110–1120 and 3140. Surveys the determination of exchange rates and theories of balance of payments adjustments. Also explores open economy macroeconomics and analyzes some of the institutional details of foreign exchange markets, balance of payments accounting, and the international monetary system.

**ECON 3670 Game Theoretic Methods (SBA-AS)**

Fall. 4 credits. *Students may not receive credit for both ECON 3670 and ECON 3680.* Prerequisites: ECON 1110 or equivalent. ECON 3670 is *not* a prerequisite for ECON 3680. Introduces students to the use of game-theoretic methods for the social sciences. This leads to an analysis of the social and political foundations of economics that prepares students to think strategically on social and economic matters and thus serves as a background for more advanced courses in economics, game theory, and related social sciences.

**ECON 3680 Game Theory (MQR)**

Spring. 4 credits. *Students may not receive credit for both ECON 3670 and ECON 3680.* Prerequisites: ECON 3130 and 3190. ECON 3670 is *not* a prerequisite for ECON 3680.

Studies mathematical models of conflict and cooperation in situations of uncertainty (about nature and about decision makers).

**ECON 3710 Economic Development (SBA-AS)**

Fall. 4 credits. Prerequisite: ECON 3130 or equivalent. Studies the problem of sustaining accelerated economic growth in less-developed countries. Emphasizes trade-offs between growth, welfare, and equity; the legacy of colonialism; relevance of history and economic theory; problems of capital formation, economic planning and international specialization; and the interaction of industrialization, agricultural development, and population change.

**ECON 3720 Applied Economic Development (SBA-AS)**

Spring. 4 credits. Prerequisite: ECON 1110–1120.

Examines several special topics in the economics of developing countries. Recent topics are the concepts of development and underdevelopment, the debate over development economics, the peasant household and its place in the world economy, the debt crisis, the state vs. market debate and the role of the state in economic development, and the question of sustainable development.

**ECON 4040 Economics and the Law (SBA-AS)**

Spring. 4 credits. Prerequisite: ECON 1110. Examines, through the lens of economic analysis, of legal principles drawn from various branches of law, including contracts, torts, and property. Cases are assigned for class discussion; in addition, there are several writing assignments.

**ECON 4080 Production Economics and Policy (SBA-AS)**

For description, see AEM 6080.

**ECON 4090 Environmental Economics (SBA-AS)**

For description, see AEM 4510.

**ECON 4160 Intertemporal Economics (SBA-AS)**

Fall. 4 credits. Prerequisite: ECON 3130. Intended for advanced economics majors who are especially interested in economic theory. Topics include (1) review of the one good Ramsey model of optimal savings and accumulation; conditions for intertemporal efficiency in production; comparative dynamics and sensitivity analysis; (2) some earlier models of capital accumulation; the roles of present value and internal rate of return in guiding investment decisions; (3) growth, exhaustible resources; pollution and conservation; discussion of the trade-offs facing a society.

**ECON 4170 History of Economic Analysis # (HA-AS)**

Spring. 4 credits. Prerequisites: ECON 1110–1120 or permission of instructor. Covers early writings in economics and their relationship to current economic analysis and policy issues. Examples include: ancient and medieval philosophers on justice in exchange; mercantilist arguments for trade protection; early theories about the effect of monetary expansion (D. Hume); the role of the entrepreneur (Cantillon); and general competitive equilibrium (the Physiocrats). The most recent reading assignment in this course is Adam Smith's *Wealth of Nations* but the emphasis is on the relationship between the precursors of Adam Smith and his *Wealth of Nations* to modern economic analysis and current efforts to answer some of the questions raised in the early writing on economics.

**[ECON 4190 Economic Decisions under Uncertainty**

Fall. 4 credits. Prerequisites: ECON 3130 and 3190. Next offered 2010–2011. Provides an introduction to the theory of decision making under uncertainty with emphasis on economic applications of the theory.]

**ECON 4300 Policy Analysis: Welfare Theory, Agriculture, and Trade (SBA-AS)**

For description, see AEM 6300.

**ECON 4340 Financial Economics, Derivatives, and Risk Management (SBA-AS)**

Summer only. 4 credits. Prerequisite: ECON 3130. Helps students understand, design, and price derivative contracts. Topics include pricing of forwards, options, and swaps; developing trading strategies with derivatives; using derivatives for financial risk management; and the importance of flexibility in various economic settings.

**ECON 4370 Economics of Health Policy**

For description, see PAM 4370

**ECON 4380 Economics of Public Health**

For description, see PAM 4380

**ECON 4410 Economics of Consumer Law**

For description, see PAM 3410.

**ECON 4430 Compensation, Incentives, and Productivity**

For description, see ILRLE 4430.

**ECON 4440 Evolution of Social Policy in Britain and America**

For description, see ILRLE 4440.

**ECON 4450 Industrial Policy (SBA-AS)**

Spring. 4 credits. Prerequisite: ECON 3130. Highlights of the course include (1) the role of the state in an industrial society; the drive for industrialization; the prevention of de-industrialization; the views of the Nobelists—Friedman, the Libertarian vs. North, the institutionist; the original intent of *laissez-faire*; (2) the major debates—the pros and cons of the Washington Consensus (“liberalization”); IMF and “conditionality”; market failure vs. government failure as roots for crises; (3) the East Asian episodes; Komiya on the Japanese MITI—early successes/recent problems; Linsu Kim about Korean policy—are subsequent difficulties the necessary price for the early triumphs?; industrial policy without protectionism (the cases of Singapore and Pennan, Malaysia)—viable approaches under the WTO rules; (4) present developments and implications; trade frictions (the export expansion of the PRC); environmental concerns.

**ECON 4460 Economics of Social Security (SBA-AS)**

For description, see PAM 4460.

**ECON 4500 Resource Economics (SBA-AS)**

For description, see AEM 4500.

**ECON 4540 China and India: Growth Miracle (also AEM 4540) @ (SBA-AS)**

For description, see AEM 4540.

**ECON 4550 Income Distribution (SBA-AS)**

For description, see ILRLE 4410.

**ECON 4570 Women in the Economy (also FGSS 4460) (SBA-AS)**

For description, see ILRLE 4450.

**ECON 4580 Topics in 20th-Century Economic History (SBA-AS)**

For description, see ILRLE 4480.

**ECON 4600 Economic Analysis of the Welfare State (SBA-AS)**

For description, see ILRLE 6420.

**ECON 4690 China's Economy under Mao and Deng (also CAPS 4690) @ (SBA-AS)**

Spring. 4 credits. Prerequisite: ECON 1110-1120 or permission of instructor.

Examines the development of the Chinese economy and the evolution of China's economic system between the early 1950s and late 1990s.

**ECON 4730 Economics of Export-Led Development @ (SBA-AS)**

Fall. 4 credits. Prerequisites: ECON 3130, 3140, or equivalent.

Examines the phenomenon of export-led development from both the theoretical and empirical points of view. Concentration is on experiences within the West Pacific Rim.

**ECON 4740 Health, Poverty, and Inequity: A Global Perspective**

For description, see NS 4570.

**[ECON 4750 The Economy of India @ (SBA-AS)]**

Fall. 4 credits. Prerequisite: ECON 1110-1120 or equivalent background. Next offered 2010-2011.

Presents the major economics and development problems of contemporary India and examines the country's future economic prospects. The aim is, however, to discuss these problems in their proper historical perspectives. Hence, the course starts with a brief outline of the social and political history of India. It then turns to a more detailed account of the economic history of India in two stages.]

**ECON 4760 Decision Theory I (also COGST 4760, CS 5846, ECON 6760) (MQR)**

Fall. 4 credits.

Research on decision theory resides in a variety of disciplines including computer science, economics, game theory, philosophy, and psychology. This course attempts to integrate these various approaches. The course is taught jointly by faculty from Game Theory and Computer Science. The course covers several areas: (1) basic decision theory. This theory, sometimes known as "rational choice theory," is part of the foundation for the disciplines listed above. It applies to decisions made by individuals or by machines; (2) the limitations of and problems with this theory. Issues discussed here include decision theory paradoxes revealed by experiments, cognitive and knowledge limitations, and computational issues; (3) new research designed in response to these difficulties. Issues covered include alternative approaches to the foundations of decision theory, adaptive behavior and shaping the individual decisions by aggregate/evolutionary forces and more computationally based approaches.

**ECON 4770 Decision Theory II (also COGST 4770, CS 5847, ECON 6770) (MQR)**

Spring. 4 credits. Prerequisite: ECON 4760 or 6760 or CS 5846.

A continuation of ECON 4760.

**ECON 4980 Independent Study in Economics**

Fall or spring. Variable credit.

Independent study.

**ECON 4990 Honors Program**

Fall and spring. 8 credits. Prerequisites: ECON 3130, 3140, 3210 (or 3190-3200).

Students should consult the director of undergraduate studies for details. Admission is competitive. Interested students should apply to the program in the spring semester of their junior year.

**Graduate Courses and Seminars****ECON 6090 Microeconomic Theory I**

Fall. 4 credits.

Topics in consumer and producer theory.

**ECON 6100 Microeconomic Theory II**

Spring. 4 credits.

Topics in consumer and producer theory, equilibrium models and their application, externalities and public goods, intertemporal choice, simple dynamic models and resource depletion, choice under uncertainty.

**ECON 6110 Microeconomic Theory III**

Fall. 4 credits. Prerequisites: ECON 6090 and 6100.

This class is part of a three-semester sequence in microeconomic theory. It provides a rigorous underpinning of partial equilibrium competitive analysis and reviews theories of noncompetitive markets, including Bertrand, Cournot, and monopolistic competition. It covers the classical sources of market failure (public goods, externalities, and natural monopoly) and discusses market failures stemming from informational asymmetries. It also provides an introduction to contract theory, bargaining theory, social choice theory, and theory of mechanism design.

**ECON 6130 Macroeconomic Theory I**

Fall. 4 credits.

Covers the following topics: static general equilibrium; intertemporal general equilibrium; infinitely lived agents models and overlapping generations models; welfare theorems; equivalence between sequential markets and Arrow-Debreu Markets; Ricardian proposition; Modigliani-Miller theorem; asset pricing; recursive competitive equilibrium; the Neoclassical Growth Model; calibration; and introduction to dynamic programming.

**ECON 6140 Macroeconomic Theory II**

Spring. 4 credits.

Covers the following topics: dynamic programming; stochastic growth; search models; cash-in-advance models; real business-cycle models; labor indivisibilities and lotteries; heterogeneous agents models; optimal fiscal and monetary policy; sustainable plans; and endogenous growth.

**ECON 6170 Intermediate Mathematical Economics I**

Fall. 4 credits. Prerequisites: calculus II and intermediate linear algebra.

Covers selected topics in Matrix algebra (vector spaces, matrices, simultaneous linear equations, characteristic value problem), calculus of several variables (elementary real analysis, partial differentiation, convex analysis), classical optimization theory (unconstrained maximization, constrained maximization).

**ECON 6190 Econometrics I**

Fall. 4 credits. Prerequisite: ECON 3190-3200 or permission of instructor.

Gives the probabilistic and statistical background for meaningful application of econometric techniques. Topics include probability theory probability spaces, random variables, distributions, moments, transformations, conditional distributions, distribution theory and the multivariate normal

distribution, convergence concepts, laws of large numbers, central limit theorems, Monte Carlo simulation; statistics: sample statistics, sufficiency, exponential families of distributions. Further topics in statistics are considered in ECON 6200.

**ECON 6200 Econometrics II**

Spring. 4 credits. Prerequisite: ECON 6190.

A continuation of ECON 6190 (Econometrics I) covering statistics: estimation theory, least squares methods, method of maximum likelihood, generalized method of moments, theory of hypothesis testing, asymptotic test theory, and nonnested hypothesis testing; and econometrics: the general linear model, generalized least squares, specification tests, instrumental variables, dynamic regression models, linear simultaneous equation models, nonlinear models, and applications.

**ECON 6410 Health Economics I**

For description, see PAM 6410.

**ECON 6480 Economic Analysis of the University**

For description, see ILRLE 6480.

**ECON 6760 Decision Theory I (also COGST 4760, CS 5846, ECON 4760)**

For description, see ECON 4760.

**ECON 6770 Decision Theory II (also COGST 4770, CS 5847, ECON 4770)**

For description, see ECON 4770.

**ECON 6920 Health Economics II**

For description, see PAM 6920.

**ECON 6990 Readings in Economics**

Fall or spring. Variable credit.

Independent study.

**ECON 7030 Seminar in Peace Science**

Fall. 4 credits.

Topics covered at an advanced level are: game theory, coalition theory, bargaining and negotiation processes, cooperative procedures, microbehavior models, macrosocial processes, and general systems analysis.

**ECON 7100 Stochastic Economics: Concepts and Techniques**

Spring. 4 credits. Prerequisites: ECON 6090, 6100, 6130, 6140, 6190, and 6200.

Reviews a number of techniques that have been useful in developing stochastic models of economic behavior. These include discrete-time Markov processes, dynamic programming under uncertainty, and continuous-time diffusion processes. Examples of economic models are drawn from recent literature on optimal capital accumulation and optimal savings and portfolio selection problems; permanent income hypothesis; and dynamic models of price adjustment. Advanced graduate students contemplating work in economic theory and econometric theory gain exposure to current research.

**ECON 7120 Advanced Macroeconomics**

4 credits. Prerequisites: ECON 6130, 6140.

Introduces students to some of the topics and analytic techniques of current macroeconomic research. The course has three parts: dynamic programming, new Keynesian economics, and recent theories of economic growth. The dynamic programming section includes models of consumption, investment, and real business cycles. The new Keynesian section covers models of wage and price rigidity, coordination failure, and credit markets. The section on endogenous growth looks at recent efforts to add nonconvexities to models of

optimal growth. These topics are intended to complement the material on overlapping generations covered elsewhere.

**ECON 7130 Advanced Macroeconomics II**  
Spring. 4 credits. Prerequisites: ECON 6130, 6140.

Reviews the most recent research in endogenous growth theory. This theory is little more than a decade old, but it has produced a large number of both empirical and theoretical results that have substantially reshaped the general field of macroeconomics. It is perhaps no exaggeration to say that most of the work at the frontier of today's macroeconomics belongs to this field. An increasing number of papers have been touching important issues such as learning by doing, RD investment, market structure, private and public organization of RD, education financing, human capital accumulation, technological unemployment, growth and business cycles, inequality and growth, political equilibrium, democracy and growth, instability, social conflict, capital accumulation, intergenerational and vested interests and barriers to technology adoption, international transfers of technologies, and sustainable development. This course aims to orient the student in this large and variegated literature consisting of recently published articles and working papers. Understanding this literature is a sound training in the analytical methods used at the frontier of theoretical research, but it also provides a number of empirical results at the center of the economic debate.

**ECON 7140 Empirical Macroeconomics**  
Spring. 4 credits. Prerequisites: ECON 6130 and 6140.

Advanced graduate-level course emphasizing empirical applications. Students learn how to deal with data and how to estimate and test macroeconomic theories, and can develop research topics in applied macroeconomics for their dissertations.

**ECON 7170 Mathematical Economics**  
4 credits. Prerequisites: ECON 6090–6100 (or equivalent training in micro theory) and MATH 4130–4140 (or equivalent training in analysis).

The primary theme of this course is to explore the role of prices in achieving an efficient allocation of resources in dynamic economies. Some of the classical results on static equilibrium theory and welfare economics on attaining optimal allocation through decentralized organizations are examined through an axiomatic approach. Some basic issues on capital theory are also analyzed.

**[ECON 7180 Topics in Mathematical Economics]**  
Spring. 4 credits. Next offered 2010–2011.]

**ECON 7190 Advanced Topics in Econometrics I**  
Fall. 4 credits. Prerequisite: ECON 6190–6200 or permission of instructor.  
Covers advanced topics in econometrics, such as asymptotic estimation and test theory, robust estimation, Bayesian inference, advanced topics in time-series analysis, errors in variable and latent variable models, qualitative and limited dependent variables, aggregation, panel data, and duration models.

**ECON 7200 Advanced Topics in Econometrics II**  
Spring. 4 credits. Prerequisite: ECON 6190–6200 or permission of instructor.  
For description see ECON 7190.

**ECON 7230 Semi/Non Parametric Econometrics**

Fall. 4 credits. Prerequisite: ECON 6190–6200 or permission of instructor.  
Analyzes the ways identification problems limit the conclusions that may be drawn in empirical economic research and studies how identified and partially identified parameters can be estimated. In the first part of the course, the focus is on nonparametric models. Ways data can be combined with weak assumptions to yield partial identification of population parameters are discussed.

**ECON 7310 Monetary Economics**  
Spring. 4 credits. Prerequisites: ECON 6140 or permission of instructor.

Covers advanced topics in monetary economics, macroeconomics, and economic growth—such as overlapping-generations, taxes and transfers denominated in money, transactions demand for money, multi-asset accumulation, exchange rates, and financial intermediation.

**ECON 7320 Monetary Economics**  
Fall. 4 credits. Prerequisites: ECON 7310 or permission of instructor.

Covers advanced topics in monetary economics, macroeconomics, and economic growth—such as economic volatility, the “burden” of government debt, restrictions on government borrowing, dynamic optimization, endogenous growth theory, technological evolution, financial market frictions, and cyclical fluctuations.

**ECON 7350 Public Finance: Resource Allocation and Fiscal Policy (also AEM 7350)**

Fall. 4 credits.  
Develops a mathematical and highly analytical understanding of the role of government in market economies and the fundamentals of public economics and related issues. Topics include generalizations and extensions of the fundamental theorems of welfare economics, in-depth analysis of social choice theory and the theory on implementation in economic environments, public goods and externalities and other forms of market failure associated with asymmetric information. The theoretical foundation for optimal direct and indirect taxation is also introduced along with the development of various consumer surplus measures and an application to benefit cost analysis. Topics of an applied nature vary from semester to semester depending on faculty research interests.

**ECON 7360 Public Finance: Resource Allocation and Fiscal Policy**  
Spring. 4 credits.

Spends a large part of the semester covering the revenue side of public finance. Topics include the impact of various types of taxes as well as the determination of optimal taxation. The impact of taxation on labor supply, savings, company finance and investment behavior, risk bearing, and portfolio choice are explored. Other topics include the interaction of taxation and inflation, tax evasion, tax incidence, social security, unemployment insurance, deficits, and interactions between different levels of government.

**ECON 7380 Public Choice**  
Spring. 4 credits. Prerequisites: ECON 6090, 6100.

This course has two parts. It begins with an introduction to economic theories of political decision making. Reviews the theory of voting,

theories of political parties and party competition, theories of legislative decision making and interest group influence. Also discusses empirical evidence concerning the validity of these theories. The second part uses these theories to address a number of issues in public economics. Develops the theory of political failure, analyzes the performance of alternative political systems and discusses the problem of doing policy analysis, which takes into account political constraints.

**ECON 7400 Social and Economic Data**  
Spring. 4 credits.  
For description, see ILRLE 7400.

**ECON 7420 Seminar in Labor Economics I**  
For description, see ILRLE 7450.

**ECON 7430 Seminar in Labor Economics II**  
For description, see ILRLE 7460.

**ECON 7470 Economics of Education I**  
For description, see ILRLE 7470.

**ECON 7471 Economics of Education II**  
For description, see ILRLE 7471.

**ECON 7480 Applied Econometrics I**  
For description, see ILRLE 7410.

**ECON 7490 Applied Econometrics II**  
For description, see ILRLE 7420.

**ECON 7510 Industrial Organization and Regulation**  
Fall. 4 credits. Prerequisites: ECON 6090, 6100.

Focuses primarily on recent theoretical advances in the study of industrial organization. Topics include market structure, nonlinear pricing, quality, durability, location selection, repeated games, collusion, entry deterrence, managerial incentives, switching costs, government intervention, and R&D/patents. These topics are discussed in a game-theoretic context.

**ECON 7520 Industrial Organization and Regulation**  
Spring. 4 credits. Prerequisites: ECON 6090, 6100, 7510.

Rounds out some topics in the theory of industrial organization with the specific intent of addressing the empirical implications of the theory. Reviews empirical literature in the SCP paradigm and in the NEIO paradigm.

**ECON 7560 Noncooperative Game Theory**  
Fall. 4 credits. Prerequisites: ECON 6090–6100 and 6190.

Surveys equilibrium concepts for noncooperative games. Covers Nash equilibrium and a variety of equilibrium, refinements, including perfect equilibrium, proper equilibrium, sequential equilibrium and more. Pays attention to important special classes of games, including bargaining games, signalling games, and games of incomplete information. Most of the analysis is from the strict decision-theoretic point of view, but also surveys some models of bounded rationality in games, including games played by automata.

**ECON 7570 Economics of Imperfect Information**  
Spring. 4 credits. Prerequisites: ECON 6090–6100 and 6190.

Considers some major topics in the economics of uncertain information. Although the precise

topics considered vary from year to year, subjects such as markets with asymmetric information, signalling theory, sequential choice theory, and record theory are discussed.

**ECON 7580 Psychology and Economic Theory**

Fall, spring. 4 credits. Prerequisites: economics graduate core or permission of instructor.

Explores the ways in which insights from psychology can be integrated into economic theory. Presents evidence on how human behavior systematically departs from the standard assumptions of Economics and how this can be incorporated into modeling techniques.

**ECON 7600 Topics in Political Economy**

Fall. 4 credits. Prerequisite: economics graduate core or permission of instructor. Develops critiques and extensions of economic theory, taking into account the political and social moorings of economic activity and equilibria. The formation and persistence of social norms; the meaning and emergence of property rights; the role of policy advice in influencing economic outcomes; and the effect of political power and ideology on economic variables are studied. While these topics were popular in the classic works of political economy, recent advances in game theory and, more generally, game-theoretic thinking allows a new approach to these topics. Hence, the course begins by devoting some lectures to elementary ideas in game-theory and strategic analysis.

**ECON 7610 International Economics: Trade Theory and Policy**

Fall. 4 credits. Prerequisites: ECON 6090, 6100.

Surveys the sources of comparative advantage. Analyzes simple general equilibrium models to illustrate the direction, volume, and welfare effects of trade. Topics in game theory and econometrics as applied to international economics may be covered.

**ECON 7620 International Economics: International Finance and Open Economy Macroeconomics**

Spring. 4 credits. Prerequisite: ECON 7610. Surveys the determination of exchange rates and theories of balance of payment adjustments. Explores open economy macroeconomics by analyzing models of monetary economies. Topics in monetary economics and econometrics as applied to international economics are covered.

**ECON 7640 International Trade and Foreign Investment**

Spring. 4 credits. Prerequisites: economics graduate core.

The course will address new trade theory, introducing increasing returns, imperfect competition, and heterogeneous firms. A central part of the course will be patterns of foreign investments.

**ECON 7700 Topics in Economic Development**

For description, see AEM 6670.

**ECON 7711 Empirical Methods for the Analysis of Household Survey Data: Applications to Nutrition, Health, and Poverty**

For description, see NS 6853.

**ECON 7720 Economics of Development (also ILRLE 7490)**

Spring. 4 credits. Prerequisites: first-year graduate economic theory and econometrics.

Analytical approaches to the economic problems of developing nations. Topics include old and new directions in development economics thinking, the welfare economics of poverty and inequality, empirical evidence on who benefits from economic development, labor market models, project analysis with application to the economics of education, and development policy.

**ECON 7730 Economic Development**

Fall. 4 credits. Prerequisites: ECON 6090, 6100, and 6110.

Concerned with theoretical and applied works that seek to explain economic development, or lack thereof, in countries at low-income levels. Specific topics vary each semester.

**ECON 7760 Computational Economics**

Spring. 4 credits. Prerequisites: ECON graduate CORE.

Computational economics is intended to teach students how to solve problems using a computer economic model that cannot be solved analytically. It should give students a strong background for applied and empirical research

**ECON 7840 Seminars in Advanced Economics**

Fall and spring. 4 credits.

**ECON 7850 Third-Year Research Seminar**

Fall. 4 credits.

**ENGLISH**

E. Hanson, chair; D. Fried, director of undergraduate studies and honors (255-3492); A. Galloway, director of graduate studies (255-7989); J. Adams, E. Anker, K. Attell, F. Bogel, L. Bogel, C. Boyce-Davies, J. Braddock, M. P. Brady, L. Brown, J. Carlacio, C. Caruth, C. Chase, E. Cheyfitz, M. Cobb, B. Correll, J. Culler, S. Davis, L. Donaldson, G. Farred, D. Fried, A. Fulton, R. Gilbert, K. Gottschalk, T. Hill, M. Hite, W. Jones, J. Juffer, R. Kalas, M. Koch, J. Lennon, P. Lorenz, J. Mann, B. Maxwell, K. McClane, M. McCoy, M. K. McCullough, S. Mohanty, R. Morgan, T. Murray, R. Parker, E. Quinonez, M. Raskolnikov, C. Ruff, N. Saccamano, R. Saloman, S. Samuels, P. Sawyer, D. Schwarz, H. Shaw, L. VanClief-Stefanon, S. Vaughn, H. Viramontes, S. Wong, D. Woubshet, S. Zacher, J. Zigarovich. Emeriti: M. H. Abrams, B. Adams, J. Bishop, J. Blackall, D. Eddy, R. Elias, L. Fakundiny, L. Herrin, M. Jacobus, P. Janowitz, C. Kaske, A. Lurie, P. Marcus, D. McCall, J. McConkey, D. Mermin, S. Parrish, M. Radzinowicz, E. Rosenberg, S. Siegel, S. C. Strout, W. Wetherbee.

The Department of English offers a wide range of courses in English, American, and Anglophone literature as well as in creative writing, expository writing, and film analysis. Literature courses focus variously on close reading of texts, study of particular authors and genres, questions of critical theory and method, and the relationship of literary works to their historical contexts and to other disciplines. Writing courses typically employ the workshop method in which students develop their skills by responding to criticism of their work by their classmates as well as

their instructors. Many students supplement their formal course work in English by attending public lectures and poetry readings sponsored by the department or by writing for campus literary magazines. The department seeks not only to foster critical analysis and lucid writing but also to teach students to think about the nature of language and to be alert to both the rigors and the pleasures of reading texts of diverse inspiration.

**First-Year Writing Seminars**

As part of the university-wide First-Year Writing Seminars program administered by the John S. Knight Institute for Writing in the Disciplines, the department offers many one-semester courses dealing with various forms of writing (e.g., narrative, autobiographical, and expository), with the study of specific areas in English and American literature, and with the relation of literature to culture. Students may apply any of these courses to their first-year writing seminar requirement. Detailed course descriptions may be found in the first-year writing seminars program listings, available from college registrars in August for the fall semester and in November for the spring semester.

Freshmen interested in majoring in English are encouraged to take at least one of the department's 2000-level first-year writing seminars: ENGL 2700 The Reading of Fiction, ENGL 2710 The Reading of Poetry, and ENGL 2720 Introduction to Drama. These courses are open to all second-semester freshmen. They are also open, as space permits, to first-semester freshmen with scores of 700 or above on the CEEB College Placement Tests in English composition or literature, or 5 on the CEEB Advanced Placement Examination in English, as well as to students who have completed another first-year writing seminar.

**Courses for Nonmajors**

For students majoring in fields other than English, the department provides a variety of courses at all levels. A number of courses at the 2000 level are open to qualified freshmen, and all are open to sophomores. Courses at the 3000 level are open to all sophomores, juniors, and seniors; they are also open to freshmen who have received the instructor's prior permission. The suitability of courses at the 4000 level for nonmajors depends in part on the course topics, which are subject to change from year to year. Permission of the instructor is sometimes required; prior consultation is always strongly advised.

**The Major in English**

Students who major in English develop their own programs of study in consultation with their major advisors. Some choose to focus on a particular historical period or literary genre or to combine sustained work in creative writing with the study of literature. Others pursue interests in such areas as women's literature, African-American literature, literature and the visual arts, or critical theory.

The department recommends that students prepare themselves for the English major by taking one or more of its preparatory courses, such as ENGL 2700 The Reading of Fiction, ENGL 2710 The Reading of Poetry, or ENGL 2720 Introduction to Drama. (The “ENGL” prefix identifies courses sponsored by the Department of English, all of which appear in the English section of *Courses of Study* or the department’s supplementary lists of courses; it also identifies courses sponsored and taught by other academic units and cross-listed with English.) These courses concentrate on the skills basic to the English major and to much other academic work—responsive, sensitive reading and lucid, strong writing. As first-year writing seminars, any one of them will satisfy one half of the College of Arts and Science’s first-year writing requirement. ENGL 2800, 2810, 2880, and 2890 are also suitable preparations for the major and are open to students who have completed their first-year writing seminar requirement. ENGL 2010 and 2020, which together constitute a two-semester survey of major British writers, though not required, are strongly recommended for majors and prospective majors. ENGL 2010 and 2020 (unlike ENGL 2800, 2810, 2880, and 2890) are also “approved for the major” in the special sense of that phrase explained below.

To graduate with a major in English, a student must complete with a grade of C or better 10 courses (40 credit hours) approved for the English major. All ENGL courses numbered 3000 and above are approved for the major. In addition, with the exception of first-year writing seminars (ENGL 2700, 2710, and 2720), 2000-level courses in creative and expository writing (ENGL 2800, 2810, 2880, and 2890), and courses designated for nonmajors, all 2000-level ENGL courses are also approved for the major. Courses used to meet requirements for the English major may also be used to meet the distribution requirements in the College of Arts and Sciences. Many of these courses may be used to meet the college’s “historical breadth” requirement as well.

Of the 40 credits required to complete the major, 12 credits (three courses) must be from courses in which 50 percent or more of the material consists of literature originally written in English before 1800; 8 credits (two courses) must be gateway courses (2000 through 2050); 8 credits (two courses) must be at the 4000 level or above; and another 12 credits (three courses) must form an intellectually coherent “concentration.” The 4000-level and pre-1800 requirements may be satisfied only with ENGL courses, and ENGL 4930–4940, the Honors Essay Tutorial, may not be used to satisfy either one. Courses that satisfy the pre-1800 requirement are so designated in *Courses of Study*. Many English majors use ENGL 2010 or ENGL 2030 to begin meeting this requirement since these courses provide an overview of earlier periods of British and American literatures and so enable students to make more informed choices of additional pre-1800 courses. ENGL 2020 does not qualify as a pre-1800 course. Neither do courses offered by other departments unless they are cross-listed with English. Advanced courses in foreign literature may not be used to fulfill the pre-1800 requirement, but they may be used for English major credit provided they are included within the 12-credit limit described below. The three-course concentration requirement may be satisfied with any courses approved for the major. The department’s “Guide to the English Major” suggests areas of

concentration and offers examples of courses that fall within those areas, but majors define their own concentrations in consultation with their advisors.

As many as 12 credits in appropriate courses offered by departments and programs other than English may be used to satisfy English major requirements. Courses in literature and creative writing offered by academic units representing neighboring or allied disciplines (German Studies, Romance Studies, Russian, Asian Studies, Classics, Comparative Literature, Africana Studies, the Society for the Humanities, American Studies, Feminist, Gender and Sexuality Studies, Religious Studies, Asian American Studies, American Indian Studies, Latino Studies, and Theatre, Film, and Dance) are routinely counted toward the 40 hours of major credit provided they are appropriate for juniors or seniors, as are most courses at the 3000 level and above. English majors who are double majors may exercise this option even if all 12 credits are applied to their second major. All English majors are urged to take courses in which they read foreign works of literature in the original language, and for that reason 2000-level literature courses for which qualification is a prerequisite (as well as more advanced foreign literature courses) may be counted toward the English major. Credit from other non-ENGL courses may be included within the 12 credits of nondepartmental courses approved for the major only when the student is able to demonstrate to the advisor’s satisfaction their relevance to his or her individual program of study.

#### Planning a Program of Study

Few students know from the moment they decide to pursue a major in English exactly what they wish to study. Moreover, it is natural for interests to change in the course of time. The effort of creating or discovering a coherent pattern in the courses selected is itself a valuable part of a literary (as well as a liberal) education, and English majors are expected to discuss their overall program of study when seeking their advisors’ approval of courses each semester. While the Department leaves a great deal to the discretion of its individual majors and their academic advisers, it expects them to choose courses with an eye to breadth and variety on the one hand and focus and coherence on the other.

Students with a special interest in developing their skills as writers of verse or prose will find a variety of workshop courses in expository and creative writing. As a rule a student may not enroll in more than one such course in any given semester, although exceptions are sometimes allowed where one of these is ENGL 2880 or 2890.

A number of English majors do part of their course work at a foreign institution, usually during their junior year; some spend a single semester away from campus, others an entire year. The Cornell Abroad office has information on a variety of programs at universities around the world. Many English majors study abroad in the United Kingdom and other English speaking countries, but some choose other locations. As long as they continue to meet all College and Department requirements or can complete them upon returning to Cornell, studying abroad poses no serious problems. Students spending their entire junior year abroad will be challenged to complete the Department’s Honors program

since they will be unable to take the required Honors seminar in the junior year and should plan to take it in the spring semester of their sophomore year. Otherwise they will have to take it when they return as seniors. Students must make arrangements with the chair of the Honors Committee before leaving campus.

Credit for literature courses taken abroad can in most instances be applied to the 40-hour minimum for the English major, and to requirements like the concentration and pre-1800 requirements. Approval of requests to apply credit for study abroad to the English major is granted by the DUS rather than the academic advisor, however, and students must confer with the DUS in advance of going abroad as well as on their return. The first conference includes a review of catalogue descriptions of courses the student expects to take while abroad (along with a few alternatives), the second a presentation of transcripts or equivalent documentation of successful completion of the work proposed, together with papers and exams.

No more than 16 credits per year, or 8 credits per semester, of non-Cornell credit may be applied to the English major. This restriction applies to study abroad even when that study is conducted under Cornell auspices.

#### The Major in English with Honors

Second-semester sophomores who have done superior work in English and related subjects are encouraged to seek admission to the departmental program leading to the degree of bachelor of arts with honors in English. Following an interview with the chair of the Honors Committee, qualified students will be admitted provisionally to the program. During their junior year these students complete at least one honors seminar (ENGL 4910 or 4920) and are encouraged to take an additional 4000-level English course in the area of their thesis topic. On the basis of work in these and other English courses, a provisional honors candidate must select a thesis topic and secure a thesis advisor by the end of the junior year. A student who has been accepted by a thesis advisor becomes a candidate for honors rather than a provisional candidate.

During the senior year, each candidate for honors in English enrolls in a yearlong tutorial (ENGL 4930–4940) with the faculty member chosen as thesis advisor. The year’s work culminates in the submission of a substantial scholarly or critical essay to be judged by at least two members of the faculty. More information about the Honors Program may be found in a leaflet available in the English offices.

#### First-Year Writing Seminars Recommended for Prospective Majors

##### ENGL 2700 The Reading of Fiction

Fall, spring, summer. 3 credits. Each section limited to 17 students.

Recommended for prospective majors in English. *This course does not satisfy requirements for the English major.*

This course examines modern fiction, with an emphasis on the short story and novella. Students write critical essays on authors who flourished between 1870 and the present, such as James, Joyce, Woolf, Hurston, Lawrence, Fitzgerald, Hemingway, Faulkner, Rhys, Welty, Salinger, and Morrison. Reading lists vary from

section to section, and some may include a novel, but close, attentive, and imaginative reading and writing are central to all.

### ENGL 2710 The Reading of Poetry

Fall, spring, 3 credits. Each sec limited to 17 students. Recommended for prospective English majors. *This course does not satisfy requirements for the English major.*

What can reading poetry teach us about writing critical essays? How can we become more perceptive and critical readers of poetry, and also better prose writers? This course deals with a rich variety of poems, including sonnets, odes, sestinas, villanelles, and songs. By engaging in discussions and working with varied writing assignments, we will explore major modes and genres of English poetry, learn about versification techniques, rhetorical strategies, and thematic and topical concerns. In the process, we will expand the possibilities of our own writing.

### ENGL 2720 The Reading of Drama

Fall, spring, 3 credits. Each sec limited to 17 students. Recommended for prospective English majors. *This course does not satisfy requirements for the English major.*

In this course, we will study and write critically about plays, older and newer, in a variety of dramatic idioms and cultural traditions. We will practice close, interpretive reading of texts and pay attention to their possibilities for live and filmed performance. Readings will include works by such playwrights as Sophocles and Shakespeare, Arthur Miller and Caryl Churchill, Ntosake Shange and Tony Kushner, and some drama criticism and performance theory. Attendance at screenings and at live productions by the Theatre Department may be required.

## Critical Writing and Literary Nonfiction

### ENGL 2880-2890 Expository Writing (LA-AS)

Fall, spring, 4 credits. Each section limited to 16 students. Students must have completed their colleges' first-year writing requirements or have the permission of the instructor. S. Davis and staff. Website: <http://courses.cit.cornell.edu/engl2880-2890/>. *This course does not satisfy requirements for the English major.*

ENGLISH 2880-2890 offers guidance and an audience for students who wish to gain skill in expository writing—a common term for critical, reflective, investigative, and literary nonfiction. Each section provides a context for writing defined by a form of exposition, a disciplinary area, a practice, or a topic intimately related to the written medium. Course members will read in relevant published material and write and revise their own work regularly, while reviewing and responding to one another's. Since these seminar-sized courses depend on members' full participation, regular attendance and submission of written work are required. Students and instructors will confer individually throughout the term.

Fall 2009: Section 1. Making the News, J. Carluccio. Section 2. Teens Gone Wild: The Invention of Adolescence, J. Metzler. Section 3. Justice.com: Today's Technology and the Law, J. Menendez. Section 4. TV Nation: Television & Identity in America, D. Faulkner. Section 5. Apocalyptic Imaginings in Film and Fiction.

S. Davis. Section 6. Human Rights: Ideals and Realities. Z. Harivandi. Section 7. The Reflective Essay. K. Gottschalk.

### ENGL 3810 Reading as Writing, Writing as Reading (LA-AS)

Fall, 4 credits. Limited to 15 students. Prerequisite: permission of instructor based on a writing sample. S. Davis.

In this course we'll read a small number of 19th- and 20th-century novels, writing frequently about them and reading one another's writing as collaborators and commentators. We'll pay attention to the way our own readings may, critically and creatively, rewrite the literary texts we read, as well as to the way writers' original literary works can be "readings" of those of other writers. This is a course for English majors and nonmajors who wish to extend their mastery of critical and interpretive prose. For 2009: Nabokov's *Pale Fire*, Brontë's *Jane Eyre*, Rhys's *Wide Sargasso Sea*, Conrad's *Heart of Darkness*, Salih's *Season of Migration to the North*, Woolf's *Mrs. Dalloway*, and Cunningham's *The Hours*. See <http://courses.cit.cornell.edu/sad4449/38101>.

### ENGL 3860 Philosophic Fictions (LA-AS)

Spring, 4 credits. Limited to 15 students. Prerequisite: permission of instructor based on a writing sample. S. Davis.

"Fictions" of thought and language abound in works that deliberately test and play with ideas: dialogues, satires, parables, philosophic tales, and "thought-experiments." Students will write critically about such works and will experiment with writing in similar forms in order to argue flexibly, ridicule vice and folly, or involve readers in pleasingly or disturbingly insoluble problems. Readings may include Plato's *Phaedrus* or *Gorgias*, Swift's *Gulliver's Travels*, parables by Jesus and Kafka, dystopias by Ursula Le Guin and Caryl Churchill, science fiction by Philip K. Dick and Octavia Butler, short stories by Jorge Luis Borges and Flannery O'Connor, and essays by Richard Rorty and Jacques Derrida. See <http://courses.cit.cornell.edu/sad4449/38601>.

### [ENGL 3870 Autobiography: Theory and Practice (LA-AS)]

Fall, 4 credits. Limited to 15 students. By permission of instructor on the basis of writing samples. Next offered 2010-2011. K. Gottschalk.]

### ENGL 3880 The Art of the Essay (LA-AS)

Spring, 4 credits. Limited to 15 students. By permission of instructor on the basis of writing samples. Interested students should submit one or more pieces of recent writing (prose) to the instructor before the beginning of the semester, preferably at pre-enrollment.

The term "essay" means "an attempt." Thus, essays are short "attempts" to explore features of one's own experience, to pass onto the reader a very personal and often digressive reflection on some aspect of one's own personality or reflections about people which arise from that exercise, and whose subject matter provides a springboard for more self-reflection. For both English majors and nonmajors who have done distinguished work in first-year writing seminars and in 2000-level courses, and who desire intensive practice in creative nonfiction, the course assumes a high degree of self-motivation and a critical interest in the work of other writers. Students will submit a final portfolio of conceptually rich and stylistically polished writing.

## Creative Writing

Students usually begin their work in Creative Writing with ENGL 2800 or 2810, and only after completion of the First-Year Writing Seminar requirement. Please note that either ENGL 2800 or ENGL 2810 is the recommended prerequisite for 3000-level creative writing courses. ENGL 2800 and 2810 may satisfy a distribution requirement in your college (please check with your college advisor). ENGL 3820-3830, 3840-3850, and 4800-4810 are approved for the English major.

### ENGL 2800-2810 Creative Writing (LA-AS)

Fall, spring, summer, winter, 3 credits. Limited to 18 students. Prerequisite: completion of the First-Year Writing Seminar requirement. **Majors and prospective majors, please note:** Although recommended for prospective English majors, ENGL 2800-2810 cannot be counted toward the 40 credits required for completion of the English major. It is a prerequisite for 3000-level courses in creative writing, which count toward the major. ENGL 2800 is not a prerequisite for ENGL 2810.)

An introductory course in the theory, practice, and reading of prose, poetry, and allied forms. Students are given the opportunity to try both prose and verse writing and may specialize in one or the other. Many of the class meetings are conducted as workshops.

### ENGL 3820-3830 Narrative Writing (LA-AS)

3820, fall; 3830, spring, 4 credits each semester. Each section limited to 15 students. Prerequisite: ENGL 2800 or 2810 and permission of instructor based on submission of a manuscript (bring manuscript to first day of class). Fall: sem 101, A. Koch; sem 102, R. Morgan; sem 103, H. Viramontes; Spring: H. Viramontes, J. Lennon, M. McCoy.

The writing of fiction; study of models; analysis of students' work.

### ENGL 3840-3850 Verse Writing (LA-AS)

3840, fall or summer; 3850, spring, 4 credits. Each section limited to 15 students. Prerequisite: ENGL 2800 or 2810 and permission of instructor based on submission of manuscript (bring manuscript on first day of class). Fall: sem 101, A. Fulton; sem 102, TBA. Spring: K. McClane, TBA.

The writing of poetry; study of models; analysis of students' poems; personal conferences.

### ENGL 4800-4810 Seminar in Writing (LA-AS)

4800, fall; 4810, spring, 4 credits each semester. Each section limited to 15 students. Prerequisite: permission of instructor, normally on the basis of a manuscript. The manuscript should be submitted to the instructor no later than the first day of class. Previous enrollment in ENGL 2800 or 2810 and at least one 3000-level writing course recommended. Successful completion of one half of the 4800-4810 sequence does not guarantee enrollment in the other half; students must receive permission of the instructor to enroll in the second course. Fall: sem 101, A. Fulton; sem 102, E. Quinonez; spring: J. Lennon and L. Van Clief-Stefanon.

Intended for those writers who have already gained a basic mastery of technique. Although ENGL 4800 is not a prerequisite for ENGL 4810, students normally enroll for both semesters and should be capable of a major project—a collection of stories or poems, a group of personal essays, or perhaps a novel—to be completed by the end of the second semester. Seminars are used for discussion of the students' manuscripts and published works that individual members have found of exceptional value.

### **Courses for Freshmen and Sophomores**

These courses have no prerequisites and are open to freshmen and nonmajors as well as majors and prospective majors.

### **Gateway Courses**

These courses are required for English majors, but recommended for all others.

#### **ENGL 2000 Introduction to Criticism and Theory (LA-AS)**

Fall. 4 credits. K. Attell.

This course is an introductory survey of modern methodologies in literary criticism and theory. Readings will include key texts from such schools as New Criticism, psychoanalysis, structuralism, poststructuralism, Marxism, feminism, and postcolonial studies. The purpose of the course is to give students a solid foundation in the issues, techniques, and vocabularies of advanced literary analysis.

#### **ENGL 2010–2020 The English Literary Tradition # (LA-AS)**

2010, fall; 2020, spring. 4 credits each semester. ENGL 2010, not a prerequisite for 2020, may be used as one of the three pre-1800 courses required of English majors.

2010 (fall). R. Kalas. An introduction to the study of English literature from its early history through the 17th century, emphasizing exceptional works and key periods of innovation. Readings will include *Beowulf* and *Sir Gawain and the Green Knight* in modern translation, selections from Chaucer's *Canterbury Tales*, More's *Utopia*, Book I of Spenser's *Faerie Queene*, some 16th-century sonnets, Shakespeare's *King Lear*, poems by Christopher Marlowe, Isabella Whitney, Mary Sidney, John Donne, Andrew Marvell, and George Herbert, and parts of Milton's *Paradise Lost*. We'll focus on the distinctive features of these works—their genre, meter, rhetoric, and style—while also considering what it means to think about literature as history. Class format will be lecture and discussion; short assignments will encourage close reading and experimentation with literary techniques.

2020 (spring). W. Jones. From powdered wigs and sex comedies to romantic odes to Stoppard and Rushdie: a survey of 250 years of British poetry, prose and drama that also functions as an introduction to literary study. Lectures will stress intertextual relations, historical shifts, and close reading; short reading responses and essays will explore topics of student interest. Special features of the course include an archive of recorded readings and short critical and historical essays. Readings will include *The Way of the World*, *Gulliver's Travels*, *Persuasion*, *A Room of One's Own*, *Arcadia*, and poetry by Pope, the major Romantics, Tennyson, Browning, Yeats, Hardy, and Auden.

#### **ENGL 2030 Introduction to American Literatures (also AMST 2030) # (LA-AS)**

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* L. Donaldson.

English 2030 introduces students to a wide range of North American literatures such as fiction, poetry, drama, political writing, autobiography, ethnography, sermons, songs, and storytelling. It covers the histories of these genres from before European colonization to the U.S. Civil War. The course begins with Native American creation stories and ends with Herman Melville. Students will interpret genres and authors within their specific literary and social contexts and engage with voices not commonly heard in American literary histories—Oludah Equiano and Nancy Ross, for example. Topics include European colonialism; slavery, race, and the making of North American literature; Native Americans—removal and resistance; women's literary production; the Enlightenment and revolution in North American colonies; and a special section on 18th-century natural histories.

#### **ENGL 2040 Introduction to American Literatures: The Making of America: Reconstruction to the Present (also AMST 2040) (LA-AS)**

Spring. 4 credits. J. Braddock.

This course will introduce students to American literature from the end of the Civil War to the present. We will consider a wide range of authors and literary movements while paying close attention to radical shifts in American life and culture in the past century and a half. We will ask: What traditions do American authors inherit and what new ones do they issue? How does this writing engage central issues of modern American culture such as race, immigration, globalization, and technology? The class will examine a variety of genres including poetry, novels, manifestos, autobiographies, legal tracts, and film. Authors include Cather, Dickinson, Ellison, Faulkner, L. Hughes, Hurston, Pynchon, N. West.

#### **ENGL 2050 Contemporary World Literature @ (LA-AS)**

Fall. 4 credits. E. Anker.

This course examines contemporary literature from the second half of the 20th century to the present. Our readings will range across genres (the novel, poetry, and drama) and include writers from multiple geographies—in addition to America and Britain, South Asia, Africa, the Middle East, and the Caribbean. As we seek to define the category of “world literature,” we will explore the innovations in aesthetics as well as the historical developments that have governed recent literary production. In turn, many of our readings will compel us to investigate how ethnicity, nationalism, religion, gender, sexuality, globalization, and other concerns have impacted the formation of world literature, especially in terms of its bearing on social justice. Authors may include: Salman Rushdie, Don DeLillo, Seamus Heaney, Sylvia Plath, J. M. Coetzee, Derek Walcott, Arundhati Roy.

#### **ENGL 2060 The Great American Cornell Novel (also AMST 2060) (LA-AS)**

Spring. 4 credits. M. Hite.

Some of the best novels of the last 50 years were written by people who were students or professors at Cornell. In this class we will read and discuss some of these novels—along with some shorter fiction—by some, but regrettably not all, of the following: Manette Ansary, Paul

Cody, Susan Choi, Richard Farina, Lamar Herrin, Alison Lurie, Dan McCall, Maureen McCoy, Lorrie Moore, Robert Morgan, J. Robert Lennon, Toni Morrison, Vladimir Nabokov, Stewart O'Nan, Thomas Pynchon, Stephanie Vaughn, Helena Maria Viramontes, and Kurt Vonnegut. Lecture—discussion format with sections, some guest appearances. Students will also be required to attend some readings outside of class periods.

#### **[ENGL 2070 Introduction to Modern Poetry (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. R. Gilbert.]

#### **ENGL 2080 Shakespeare and the 20th Century (LA-AS)**

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* S. Davis.

What can we learn about Shakespeare's plays from their reception in the 20th and 21st centuries? What can we learn about modern cultures from their appropriations of these texts and of the Shakespeare mystique? We will study four or five plays and their adaptations in film and theater and explore the uses made of Shakespeare in education, advertising, and public culture and by the “Shakespeare industry” itself. For spring 2010: *Midsummer Night's Dream*, *Richard III*, *Othello*, *Lear*, and *Merchant of Venice*, together with films directed by Ismael Merchant and James Ivory, Richard Loncraine, Janet Suzman, Trevor Nunn, and Akira Kurosawa and plays by Bertolt Brecht, Wendy Wasserstein, and Arnold Wesker. See <http://courses.cit.cornell.edu/sad4449/2080>.

#### **ENGL 2090 Introduction to Cultural Studies (CA-AS)**

Fall. 4 credits. J. Juffer.

What is cultural studies? Although some would define the field loosely, this course argues for a fairly specific definition—one that emphasizes culture's material forms and the role of the critic in shaping access to cultural texts. We begin with the British Birmingham Centre in the 1960s and their study of subcultures. We then trace the movement of cultural studies across the Atlantic, examining how the field was taken up in the U.S. academy, especially in the realm of popular culture. Finally, we turn to the “globalization” of cultural studies, focusing on media flows and migration. Throughout, we will combine theory with its application to particular cultural objects, and students will design their own cultural studies projects.

### **Introductions to Literary Studies**

#### **ENGL 2130 Cultures of the Middle Ages # (CA-AS)**

4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* S. Zacher.

This course introduces a wide range of literature written before 1500 and the cultures it was written in, especially in the region that became known as England. No previous knowledge of this material is required. We will read, in translation and with other help, a sample of works originally in Latin, Old English, Middle English, French, and Italian, beginning with the arrival of Christianity to England and ending with the splitting of the English church from Rome in the 16th century. Authors, works, and genres considered may include Bede, *Beowulf*, Old English prose and

poetry, saints' lives, histories (including Gildas and Geoffrey of Monmouth), women's writing, French and English romance, Boccaccio, Chaucer, and late-medieval drama. Requirements include regular informal writings and three formal, medium-sized papers.

**ENGL 2270 Shakespeare (also THETR 2770) # (LA-AS)**

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* B. Correll. An introduction to the dramatic works of Shakespeare, with a representative selection from the comedies, histories, and tragedies. We will study and discuss the formal and linguistic features of the plays; their historical, political, and cultural contexts; early modern theater history; issues of gender, class, and race as they inform and enliven the works; and questions of reading Shakespeare as an author, a field of study, and a cultural institution.

**Major Genres and Areas**

**ENGL 2400 Introduction to Latino/a Literature (also AMST 2401, LSP 2400) (LA-AS)**

Fall. 4 credits. M. P. Brady. From the radical manifestos of revolutionaries to the satirical plays of union organizers, from new, experimental novels to blogs, this course will examine Latino/a literature published in the United States beginning in the early 19th century and continuing to the present. We will pay particular attention to the historical, theoretical, and literary context for this literature. We will also study memoir, poetry, essays. Authors will include José Martí, Arturo Schomburg, Maria Cristina Mena, Bernardo Vega, Gloria Anzaldúa, Sandra Cisneros, Junot Díaz, Manuel Muñoz, and Pedro Pietri.

**[ENGL 2510 20th-Century Women Writers (also AMST/FGSS 2510) (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012.]

**[ENGL 2520 Late 20th-Century Women Writers and Visual Culture (also AMST 2520) (LA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2011–2012. S. Samuels.]

**[ENGL 2600 Introduction to American Indian Literatures in the United States (also AMST 2600) (LA-AS)]**

Spring. 4 credits. Next offered 2012–2013. E. Cheyfitz.]

**ENGL 2620 Asian American Literature (also AAS/AMST 2620) (LA-AS)**

Spring. 4 credits. S. Wong. This course will introduce both a variety of writings by Asian North American authors and some critical issues concerning the production and reception of Asian American texts. Working primarily with novels, we will be asking questions about the relation between literary forms and the sociohistorical context within which they take on their meanings, and about the historical formation of Asian American identities.

**ENGL 2650 Introduction to African American Literature (also AMST 2650) (CA-AS)**

Fall. 4 credits. D. Woubshet. This course will introduce students to the African-American literary tradition. Through aesthetic and contextual approaches, we will consider how African-American life and culture has defined and constituted the United

States of America. From slave narratives to Hip-Hop music, we will trace the range of artistic conventions and cultural movements while paying close attention to broader historical shifts in American life over the past three centuries. We will ask: How do authors create and define a tradition? What are some of the recurring themes and motifs within this tradition? Authors will include: Phillis Wheatley, David Walker, Frederick Douglass, Ida B. Wells-Barnett, W.E.B. Du Bois, Zora Neal Hurston, Lorraine Hansberry, James Baldwin, Audre Lorde, Toni Morrison, and Paul Beatty.

**[ENGL 2730 Children's Literature (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012. J. Adams.]

**ENGL 2740 Scottish Literature # (LA-AS)**

Fall. 4 credits; may be taken for 3 or 4 credits; those choosing 4 credits will complete an additional writing project. *This course may be used as one of the three pre-1800 courses required of English majors.* H. Shaw and T. Hill. Although Scotland, which was long a separate nation, is now politically united with England, it preserves its distinctiveness. This course provides an introduction to Scottish literature, with special emphasis on the medieval period and the 18th through the 20th centuries. The course should appeal to those who wish to learn about their Scottish heritage, and also those who simply wish to encounter a remarkable national culture and the literature it has produced. Some of the texts will be read in Scots, but no familiarity with Scots or earlier English is presumed. We welcome readers of literature who are not English majors.

**[ENGL 2760 Desire (also COML/FGSS 2760, THETR 2780) (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. Letter grades only. E. Hanson.]

**[ENGL 2770 Literatures of the Black Atlantic: Reading the Contemporary (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. D. Woubshet.]

**Special Topics**

**ENGL 2100 Medieval Romance: Voyage to the Otherworld # (LA-AS)**

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* T. Hill. The course will survey some medieval narratives concerned with representative voyages to the otherworld or with the impinging of the otherworld upon ordinary experience. The syllabus will normally include some representative Old Irish otherworld literature: selections from *The Mabinogion*; selections from the *Lays of Marie de France*; Chretien de Troye's *Erec, Yvain, and Lancelot*; and the Middle English *Sir Gawain and the Green Knight*. We will finish by looking at a few later otherworld romances, such as selections from J. R. R. Tolkien. All readings will be in modern English. Requirements: three brief (two to three typed pages) papers and a final exam designed to test the students' reading.

**[ENGL 2150 The American Musical (also THETR 2150, AMST 2105, MUSIC 2250) (LA-AS)]**

Fall. 4 credits. N. Salvato.]

**ENGL 2170 History of the English Language (also LING 2217) # (HA-AS)**

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* W. Harbert. For description, see LING 2170.

**ENGL 2630 Studies in Film Analysis: Hitchcock (also FGSS 2630, FILM 2650) (LA-AS)**

Fall. 4 credits. L. Bogel. Through detailed analysis of at least 15 of Hitchcock's major films—from British silents such as *Blackmail* and the British talkies of the '30s (*The Thirty-Nine Steps*) to the early '40s work in Hollywood (*Spellbound*, *Notorious*), and major American films of his late period (*Rear Window*, *Psycho*)—we will consider Hitchcock as a major technical and stylistic innovator in the history of cinema. As texts for psychoanalytic and feminist approaches to study, his films invite questions about film language, the ethics of spectatorship, and the nature of desire and sexuality. Frequent short essays and viewing exercises encourage students to engage through their writing the course's critical concerns. Regular required screenings after class. Enrollment limited to twenty. Preference given to Film and English majors.

**[ENGL 2640 The Private I and the Public Eye: Exploring Latino/a Identity in Poetry, Fiction, and Nonfiction (CA-AS)]**

Fall. 4 credits. Next offered 2010–2011. H. Viramontes.]

**ENGL 2680 Culture and Politics of the 1960s (also AMST 2680) (CA-AS)**

Fall. 4 credits. P. Sawyer. Nearly half a century ago, the civil rights movement, the Cold War and the Vietnam War stimulated critiques and alternative experiments in living that changed American society forever. What can the experiences of young "boomers" and others who lived through the 1960s teach a later generation living through a similar period of turmoil and hope? This interdisciplinary course combines an historical overview with the close reading of texts, concentrating on the topics of racial justice, war, the counterculture, the New Left, the women's movement, and the movement for gay and lesbian rights. Texts will include *The Autobiography of Malcolm X*, Wolfe's *Electric Kool-Aid Acid Test*, Vonnegut's *Slaughterhouse-5*, music of Dylan and Joplin, speeches of King, films, manifestos, memoirs, and poems. A research paper will explore the history of activism at Cornell during those years.

**ENGL 2751 Literature, Sports, and Ideology (also ASRC 2505) (LA-AS)**

Fall. 3 credits. G. Farred. For description, see ASRC 2505.

**ENGL 2920 Introduction to Visual Studies (also COML/VISST 2000) (LA-AS)**

Spring. 4 credits. I. Dadi. For description, see VISST 2000.

**ENGL 2960 Linguistic Theory and Poetic Structure (also ENGL 5850, LING 2285/5585) (LA-AS)**

Spring. 4 credits. J. Bowers. For description, see LING 2285.

### Courses for Sophomores, Juniors, and Seniors

Courses at the 3000 level are open to sophomores, juniors, and seniors and to others with the permission of the instructor.

#### [ENGL 3020 Literature and Theory (also ENGL 6020, COML 3020/6020) (LA-AS)]

Fall. 4 credits. Next offered 2010–2011. J. Culler.]

#### ENGL 3080 Icelandic Family Sagas # @ (LA-AS)

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* T. Hill.

An introduction to Old Norse–Icelandic mythology and the Icelandic family saga—the “native” heroic literary genre of Icelandic tradition. Texts will vary but will normally include the *Prose Edda*, the *Poetic Edda*, *Hrafnkels Saga*, *Njals Saga*, *Laxdaela Saga*, and *Grettirs Saga*. All readings will be in translation.

#### ENGL 3090 Autobiography: The Politics of History, Memory, and Identity (LA-AS)

Spring. 4 credits. J. Carlacio.

Autobiographical writing seeks to reveal a person’s life not only to him- or herself but also to his or her readers. Women and men used this genre both to interpret their experience for themselves and to politicize their lives for their readers. Constructed from memory and experience, life narratives complicate the seemingly transparent relationship between memory, history, and the “I” who recounts it. We will investigate this relationship and seek to understand how experience and memory shape each other and in turn shape the texts that “story” our lives. The class will read books and essays (by writers of various ethnicities) that investigate key moments in American autobiography since the 19th century. Work in this course will include several papers and work on the web.

#### ENGL 3110 Old English (also ENGL 6110) # (LA-AS)

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* S. Zacher.

The course is intended as an introduction for graduate and undergraduate students to the Old English language; graduate students may also opt to use it for somewhat more advanced work, if they wish. We will begin with simple prose texts and proceed to poetic texts such as *The Wanderer*; *The Seafarer*; *The Dream of the Rood*, and *The Wife’s Lament*. The course will address language and literature as a pairing. There will be regular translations and discussions, a mid-term, a short paper, and a final exam.

#### ENGL 3120 Beowulf (also ENGL 6120) # (LA-AS)

Spring. 4 credits. Required: one semester’s study of Old English or equivalent. *This course may be used as one of the three pre-1800 courses required of English majors.* T. Hill.

A close reading of *Beowulf*. Attention is given to relevant archaeological, literary, cultural, and linguistic issues.

#### [ENGL 3160 Medieval Beasts, Bodies, and Boundaries # (LA-AS)]

Fall. 4 credits. Next offered 2011–2012. S. Zacher.]

#### ENGL 3190 Chaucer # (LA-AS)

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.*

M. Raskolnikov.

Chaucer became known as the “father of English poetry” before he was entirely cold in his grave. Why is what he wrote more than six hundred years ago still riveting for us today? It’s not just because he is the granddaddy of this language and its literature; it’s because what he wrote was funny, fierce, thoughtful, political, philosophical, and, oh yes, notoriously bawdy. We’ll read some of Chaucer’s brilliant early work, and then dig into his two greatest achievements: the epic *Troilus and Criseyde*, and *The Canterbury Tales*, his oft-censored panorama of medieval English life. Chaucer will be read in Middle English, which will prove surprisingly easy and pleasant.

#### ENGL 3220 Studies in Renaissance Literature: English Renaissance Drama # (LA-AS)

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* Next offered 2011–2012. J. Mann.]

#### ENGL 3230 Renaissance Poetry # (LA-AS)

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* B. Correll.

Renaissance writers were acutely aware that poetry had the capacity to arouse emotion and sensation in the reader; this was precisely what made poetry such a marvelous instrument and such a serious threat. This course will focus on the relation of poetry to sense perception and sensualism in 16th- and 17th-century lyric. To what extent should poetry be a visual, aural, or tactile pleasure? Are there other means, apart from sense experience, by which poetry can stir the mind or the soul? We’ll begin with Golding’s translation of Ovid’s *Metamorphoses* in order to consider its influence on late 16th-century narrative verse and Ovidian lyric. Other readings will include works by Spenser, Marlowe, Shakespeare, Donne, Sidney (Philip and Mary), Whitney, Chapman, Lanier, Herrick, Herbert, Milton, and Marvell.

#### ENGL 3260 Spenser # (LA-AS)

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* B. Correll.

Edmund Spenser stands out among Renaissance writers, not just as the author of *The Faerie Queene*, but also as one who set out to find literary fame as English nation poet by modeling his career after Virgil and other predecessors. While reading Spenser’s shorter poetic works, some prose, and, of course, his intriguing epic, we will follow Spenser’s development and engage with issues of genre, cultural and religious politics, colonialism, and questions of allegory, and early modern authorship.

#### ENGL 3270 Shakespeare # (LA-AS)

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* P. Lorenz.

A lecture and discussion course on Shakespeare’s plays from the middle to late part of his career: “dark comedies,” late tragedies, and romances. While we will pay particular attention to questions of dramatic form and historical context, the main focus of the course is on careful close readings of the play-texts themselves. Plays include *Hamlet*, *Measure for Measure*, *Othello*, *King Lear*, *Macbeth*, *Antony and Cleopatra*, *The Winter’s Tale*, and *The Tempest*.

#### [ENGL 3280 The Bible as Literature # (LA-AS)]

Fall. 4 credits. Next offered 2010–2011. L. Donaldson.]

#### ENGL 3290 Milton and the English Revolution (also HIST 3051) # (LA-AS)

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* R. Kalas and R. Weil.

This course places Milton in the context of the intellectual and political upheavals of the mid-17th century English Revolution, foregrounding his engagement with debates on religion, freedom and regicide as well as his experience of revolution and reaction. Readings include selected short poems, *Comus*, *Samson Agonistes*, *Paradise Regained*, *Paradise Lost*, *Areopagitica*, *The Doctrine and Discipline of Divorce*, *Eikonoklastes*, and other polemical works.

#### ENGL 3300 Restoration and 18th-Century Literature # (LA-AS)

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* F. Bogel.

Close reading of texts in a variety of genres (poetry, fiction, drama, autobiography) will be guided by such topics as: the nature of satire, irony, and mock-forms; the languages of the ridiculous and the sublime; the politics of gender and sexuality; the authority and fallibility of human knowledge; connections among melancholy, madness, and imagination. Works by such writers as Rochester, Behn, Finch, Dryden, Swift, Gay, Defoe, Johnson, Boswell, Sterne, and Cowper.

#### ENGL 3330 The 18th-Century English Novel # (LA-AS)

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* N. Saccamano.

A study of form and theme in the British novel tradition. The course focuses on representative novels mostly from the 18th century, paying close attention to language and structure but also to cultural contexts and to the development of the novel form itself. We will explore such topics as truth and fiction; romance, realism, satire, and the gothic; heroic and mock-heroic modes; sentiment, sensibility, and sexuality; race and gender; and the forms and uses of narrative. Readings may include Behn’s *Oroonoko*, Defoe’s *Moll Flanders*, Richardson’s *Clarissa*, Fielding’s *Tom Jones*, Johnson’s *Rasselas*, Sterne’s *A Sentimental Journey*, and Austen’s *Emma*.

#### [ENGL 3350 Modern Western Drama, Modern Western Theater: Theory and Practice (also THETR 3350/VISST 3735) (LA-AS)]

Fall. 4 credits. Next offered 2010–2011. N. Salvato.]

**ENGL 3390 Austen and Others # (LA-AS)**

Fall. 4 credits. H. Shaw.

Our main business (and pleasure) will be to read and discuss nearly all of Austen's fiction. As for the Others in the course title, they will be a miscellaneous bunch—novelists who preceded and followed her, critics recent and not so recent, 18th-century consultant on good breeding, experts on landscape gardening and country houses, a couple of filmmakers. Why do we read Austen? Why should we? How do her novels work to delight? What makes her singular? Is she our contemporary, or her own? These are some of the questions that will engage us.

**[ENGL 3400 Studies in Romantic Literature: The English Romantic Period # (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012.]

**ENGL 3450 The Victorians # (LA-AS)**

Spring. 4 credits. J. Zigarovich.

A century after the death of Queen Victoria, the culture that bears her name is alive and well in contemporary society, from critical and political discourse to the popular media and consumer culture. An introduction to British literature of the Victorian Age (1837–1901), this course investigates the uses of Victorian culture in the following areas: Industrialism; the construction of social and anthropological ideas of culture; Nature and the Human Animal; Wealth and Class; Education; Childhood; Feminism; Sexuality and Desire; Death and Mourning; Imperialism; and Satire and Popular Entertainment in mass culture. Poetry and non-fiction prose of Tennyson, Browning, Arnold, Carlyle, Pater, Mill, and others, emphasizing literary, social, and political issues, and religious controversies, will be covered, in addition to the drama and criticism of Oscar Wilde and possibly the prose work of Charlotte Brontë, Charles Dickens, and Thomas Hardy.

**[ENGL 3480 Studies in Women's Literature: Feminist Literary Traditions (also AMST 3481, FGSS 3480) (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. K. McCullough.]

**ENGL 3490 Shakespeare and Europe (also COML 3480) # (LA-AS)**Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* W. Kennedy.

For description, see COML 3480.

**ENGL 3500 The Modern Tradition (LA-AS)**

Spring. 4 credits. D. Schwarz.

Critical study of major works by Hardy, Conrad, Lawrence, Joyce, Woolf, Eliot, Yeats, Hopkins, Wilde, Wallace Stevens, and others. While the emphasis will be on close reading of individual texts, we shall place the authors and works within the context of literary, political, cultural, and intellectual history. The course will seek to define the development of literary modernism (mostly but not exclusively in England), and relate literary modernism in England to that in Europe and America as well as to other intellectual developments. We shall be especially interested in the relationship between modern literature and modern painting and sculpture; on occasion, we shall look at slides. Within the course material, students will be able to select the topics on which they write essays.

**ENGL 3510 Caribbean Literature: Migrating Subjects (also ASRC/FGSS 3510) (LA-AS)**

Fall. 4 credits. C. Boyce Davies.

For description, see ASRC 3510.

**ENGL 3530 The Modern Indian Novel @ (LA-AS)**

Spring. 4 credits. S. Mohanty.

A survey of the modern Indian novel, from its origins in the latter part of the 19th century to the present. An attempt will be made to read the novels as responses to colonialism and to the challenges of a postcolonial society. Texts (mainly novels, but also a few short stories) drawn from a variety of Indian languages as well as English, including works by such authors as U. R. Ananthamurthy, Rabindranath Tagore, Salman Rushdie, Gopinath Mohanty, Anita Desai, Fakir Mohan Senapati, Ambai, Prem Chand, Arundhati Roy, and R. K. Narayan. Two papers (5–6 pp. and 12–14 pp.) and a journal.

**[ENGL 3540 The British Modernist Novel (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011.]

**ENGL 3550 Decadence (also COML/FGSS 3550/6551, ENGL 6551) (LA-AS)**

Spring. 4 credits. E. Hanson.

"My existence is a scandal," Oscar Wilde once wrote, summing up in an epigram the effect of his carefully cultivated style of perversity and paradox. Through their valorization of aestheticism and all that was considered artificial, unnatural, or perverse, the so-called "Decadent" writers of the late 19th century sought to free the pleasures of beauty, spirituality, and sexual desire from their more conventional ethical moorings. We will discuss literary and visual texts by Charles Baudelaire, Edgar Allan Poe, J.-K. Huysmans, Leopold von Sacher-Masoch, A. C. Swinburne, Walter Pater, René Vivien, James McNeill Whistler, and Aubrey Beardsley, with a particular focus on Oscar Wilde. Students may read French and German texts in the original or in English translation.

**ENGL 3570 The Gothic # (HA-AS)**

Spring. 4 credits. J. Zigarovich.

For this course, we will trace the evolution of the fantastic and haunting from the origins of the movement. We will examine the early sources of the Gothic then trace the development of the supernatural and macabre in the 19th century. What are the psychological effects of the representation of fear, irrationality, and social conflict? How can we understand Gothic monsters as social Others? What elements create terror, the sublime, and the uncanny? The course will cover philosophical and critical approaches to the genre as we learn about the cultural impact of the Gothic. Texts covered may include Edgar Allan Poe's short stories, Mary Shelley's *Frankenstein*, Robert Louis Stevenson's *Strange Case of Dr. Jekyll and Mr. Hyde*, and Bram Stoker's *Dracula*.

**ENGL 3571 The Modern Irish Writers (CA-AS)**

Fall. 4 credits. K. Attell.

This is a course on Irish writing of the modern period. In our readings over the semester (which will include a number of the 20th century's major literary texts), we will cover the development of Irish writing from the Yeats-led Irish Revival of century's early years through Joyce's high modernist masterpiece to the proto-postmodernisms of O'Brien and Beckett. Along the way we will also inquire into the

ways in which Irish modernism raises fundamental questions about such things as: the relation between language and national identity; the nature of modernism's "newness"; colonial, postcolonial, and "semicolonial" culture; the political uses of literature; and the contending forces of cosmopolitanism and nationalism in the modern period.

**ENGL 3590 Consuming Passions: Media, Space, and the Body (also FGSS 3590) (CA-AS)**

Spring. 3 credits. J. Juffer.

For description, see FGSS 3590.

**[ENGL 3600 Another World Is Possible: The American Left Since the 1960s (also AMST 3600) (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011. P. Sawyer.]

**[ENGL 3610 Studies in the Formation of U.S. Literature: Emerson to Melville (also AMST 3610) # (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. D. Fried.]

**[ENGL 3620 Studies in U.S. Literature after 1850: Reconstructing America (also AMST 3640) (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011.]

**[ENGL 3630 Studies in U.S. Literature: The Age of Realism and Naturalism (also AMST/FGSS 3630) (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. K. McCullough.]

**ENGL 3640 Studies in U.S. Literature After 1950: American Literature, the 1980s (also AMST 3640) (LA-AS)**

Spring. 4 credits. D. Woubshet.

This course will explore literature of the 1980s against the broader cultural and historical landscape of 80s America. In many ways, we live in the immediate shadow of the 1980s, but our slight remove from the decade affords us a chance to look back at the literature and culture of the 80s with some distance (and familiarity). In this course, we will give particular emphasis to the following themes: postmodernism, the blurring of literary genres, the blurring of taste (high vs. low culture), the emphasis on (racial, gender, and sexual) difference, pop culture, and history. Authors may include: Don DeLillo, Kurt Vonnegut, Maxine Hong Kingston, Thomas Pynchon, Toni Morrison, Norman Mailer, Ishmael Reed, Audre Lorde, and Gloria Anzaldúa.

**[ENGL 3650 American Literature Since 1945 (also AMST 3650) (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011. B. Maxwell.]

**[ENGL 3660 Studies in U.S. Fiction Before 1900: The 19th-Century American Novel (also AMST 3660) # (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011.]

**ENGL 3670 Studies in U.S. Fiction: Novels and Short Stories in the Americas (also AMST 3670) (LA-AS)**

Fall. 4 credits. M. P. Brady.

This course will consider well-known and obscure fiction by writers ranging across the Americas. We will examine major themes and issues as well as consider various aesthetic trends. Writers to be studied may include Nathaniel Hawthorne, Pauline Hopkins, William Dean Howells, Mariano Azuela, Willa Cather, Thomas Pynchon, Toni Morrison, Flannery O'Connor, Joy Kogawa, Henry James, Edith Wharton, and more.

**[ENGL 3680 Faulkner (LA-AS)]**

4 credits. Next offered 2010–2011.]

**[ENGL 3690 Fast-Talking Dames and Sad Ladies: 1940s and Now (also FILM/FGSS 3690) (LA-AS)]**

Spring. 4 credits. Limited to 15 students. Students must be able to attend Mon. and/or Tues. late-afternoon screenings. Film fee: \$20. L. Bogel.

Focusing on sassy or subdued heroines of Hollywood's 1940s films and current films, this seminar works to define romantic comedy and melodrama as genres; as vehicles for female stars; as ways of viewing the world. Psychoanalytic and feminist analyses of these films will help us pose questions about gender and culture, about gendered spectatorship, about Hollywood's changing constructions of "woman," the "maternal," and the "feminine," and about representations of desire, pleasure, fantasy, and ideology. Required twice-weekly screenings of such films as *Gilda*, *The Lady Eve*, *Notorious*, *The Women*, *The Philadelphia Story*, *His Girl Friday*, *Mrs. Dalloway*, *The Hours*, *First Wives' Club*, *All About My Mother*, *Silence of the Lambs*, and *Far from Heaven*.

**[ENGL 3700 The Victorian Novel # (LA-AS)]**

Fall. 4 credits. P. Sawyer.

In the 19th century, British novelists produced some of the most complex representations of human society and historical change in fiction. They also drew upon a variety of narrative techniques: free indirect discourse, multiplot narrative, symbolic structure, multiple narrators, and "found" documents. In addition to introducing students to specific texts and authors, this course will concern ways of reading fiction in general. Topics will include representations of community and class, the modern city, the supernatural, and the construction of male and female identity. Likely readings: Austen, *Emma*; Scott, "The Two Drovers"; Emily Bronte, *Wuthering Heights*; Dickens, *Little Dorrit*; Eliot, *Middlemarch*; and Hardy, *Tess of the d'Urbervilles*.

**[ENGL 3702 Desire and Cinema (also COML/FGSS 3702) (LA-AS)]**

Spring. 4 credits. Letter grades only. Next offered 2011–2012. E. Hanson.]

**[ENGL 3711 American Poetry to 1950 (also AMST 3711) (LA-AS)]**

Fall. 4 credits. R. Gilbert.

In this course we'll trace the main lines of development that have shaped American poetry from its inception in the 17th century, through the radical originality of Walt Whitman and Emily Dickinson, down to the bold innovations of early 20th-century poets. In addition to Whitman and Dickinson, poets to be studied will include Anne Bradstreet, Ralph Waldo Emerson, Edgar Allan Poe, Robert Frost, Ezra Pound, T. S. Eliot, H. D., Wallace Stevens, William Carlos Williams, Marianne Moore, Langston Hughes, and Hart Crane. Weekly informal reading responses; three essays.

**[ENGL 3712 American Poetry Since 1950 (also AMST 3712) (LA-AS)]**

Spring. 4 credits. R. Gilbert.

The second half of the 20th century has been a remarkably diverse period in American poetry, characterized by restless exploration of new areas of language and experience. In this course we'll focus on a series of representative

figures born between 1900 and 1950. These may include some or all of the following: Theodore Roethke, Elizabeth Bishop, Gwendolyn Brooks, John Berryman, Robert Lowell, Robert Creeley, Allen Ginsberg, Frank O'Hara, W. S. Merwin, James Wright, A. R. Ammons, John Ashbery, James Merrill, Sylvia Plath, and Adrienne Rich. Weekly informal reading responses; three essays.

**[ENGL 3720 Medieval and Renaissance Drama (also THETR 3720) # (LA-AS)]**Spring. 4 credits. *This course may be used as one of the three courses pre-1800 required of English majors.* Next offered 2010–2011. M. Raskolnikov.]**[ENGL 3721 Food, Gender, Culture (also AMST/FGSS 3720)]**

Fall. 4 credits. K. McCullough. For description, see FGSS 3720.

**[ENGL 3730 Weird Science, Hard Poems (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011. L. Van Clief-Stefanon.]

**[ENGL 3731 Reading for Writers: Weird Stories (LA-AS)]**

Fall. 4 credits. J. R. Lennon.

This course will focus on short fiction that departs from representational reality, studied from a writerly point of view. We'll examine excursions from the conventions of plot, character, narrative structure, and grammar. What opportunities have these departures afforded fiction writers? Do they wish to imply that conventional narrative has lost its luster, or do they merely serve to broaden its boundaries? Included will be works by Chekhov, Nabokov, Dybek, Dixon, Link, Lethem, Davis, Murakami, Saunders, Mieville, Whitehead, and others. Grade will come from in-class presentations and discussion, and from a portfolio of experimental writing assignments. The course is open to all undergraduates, though I recommend taking ENGL 2800 first. Poets welcome.

**[ENGL 3732 Reading for Writers: Reading as Poets (LA-AS)]**

Spring. 4 credits. A. Fulton.

In this class, students will learn to use contemporary poetry books as catalysts for their own poetry. We'll read a volume of contemporary poems each week with an eye toward issues of content and craft. We also might read a few essays on poetics. Rather than respond to the reading with papers, students will respond with poems directly influenced by or in conversation with the assigned books, and with brief explanations of the ways in which their poems encounter a given text. In class, we'll consider each book's focus, structure, and techniques. Discussions will help us understand and appreciate divergent aesthetics. In essence, the course recognizes the reading of contemporary poetry as the most essential element of a poet's education. Please note: This is not a poetry workshop. Classroom discussion will focus on the assigned books.

**[ENGL 3740 Studies in African American Literature: 1940–present (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011.]

**[ENGL 3750 Studies in Drama and Theatre: 20th-Century Drama: Theatres of Selfhood (also THETR 3750) (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. P. Lorenz.]

**[ENGL 3751 Magical Realism Revisited (CA-AS)]**

Spring. 4 credits. E. Quinonez.

Magical Realism was the term used to power the "boom period," when Latin American writers were being popularly translated into English during the '60s and '70s. We'll examine the term as both a genre and as anti-imperialist, coded, writings of protest. We'll inspect what magical realism means in today's world and also examine its "cousins": fantasy, science fiction, horror, myth, folklore, and anything in between. We'll screen movies, hear songs, see slides of paintings from Latin America. The bulk of the texts will be "boom writers" García Marquez, Vargas Llosa, Rosario Castellanos, Jorge Amado, Luisa Valenzuela, Juan Rulfo, Jose Donoso, Clarice Lispector as well as texts by Amy Bender, Paul Auster, Salman Rushdie, Toni Morrison, and others who have been influenced by magical realism.

**[ENGL 3770 Herman Melville (also AMST 3770) # (HA-AS)]**

Fall. 4 credits. M. Cobb.

Who doesn't long for an adventure? Who'd refuse the chance to learn about the meaning of life? Who hasn't spent years of a life chasing a big, white fish? Melville, for sure, takes us on a great aesthetic voyage through some of American literature's major obsessions. And now you're invited aboard. The bulk of the class will be on the sea, hunting that whale in one of the world's most acclaimed novels, *Moby Dick*, but we'll also plunge into *Billy Budd*, *Sailor*, and *The Piazza Tales* (especially "Benito Cereno," "The Encantadas," and "Bartleby, The Scrivener"). We'll also read some select works from writers that resonate with Melville's (and our) imagination, especially Milton, Shakespeare, and Hawthorne. And we'll pay particular attention to things that always preoccupy Melville's readers: nationality, politics, identity, religion, history, class, race, gender, sexuality, formal experimentation, Romanticism, the economy, realism, allegory, and the Gothic, among others.

**[ENGL 3790 Reading Nabokov (also RUSSL 3385) (LA-AS)]****[ENGL 3800 Time Sensitive: Poets of the Last 10 Minutes (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012. A. Fulton.]

**[ENGL 3810 Reading as Writing (LA-AS)]**

See complete course description in section headed "Critical Writing and Literary Nonfiction."

**[ENGL 3820–3830 Narrative Writing (LA-AS)]**

See complete course description in section headed "Creative Writing."

**[ENGL 3840–3850 Verse Writing (LA-AS)]**

See complete course description in section headed "Creative Writing."

**[ENGL 3860 Philosophic Fictions (LA-AS)]**

See complete course description in section headed "Critical Writing and Literary Nonfiction."

**[ENGL 3870 Autobiography: Theory and Practice (LA-AS)]**

See complete course description in section headed "Critical Writing and Literary Nonfiction."

**ENGL 3880 The Art of the Essay (LA-AS)**

See complete course description in section headed "Critical Writing and Literary Nonfiction."

**[ENGL 3970 Policing and Prisons in American Culture (also AMST 3970) (CA-AS)]**

Spring. 4 credits. Next offered 2010-2011. B. Maxwell.]

**[ENGL 3980 Latino/a Popular Culture (also AMST 3981, LSP 3980) (CA-AS)]**

Spring. 4 credits. U.S. Latino/a history is strongly recommended as a prerequisite, but not required. Next offered 2011-2012. M. P. Brady.]

**Courses for Advanced Undergraduates**

Courses at the 4000 level are open to juniors and seniors and to others by permission of instructor unless other prerequisites are noted.

**[ENGL 4020 Literature as Moral Inquiry (KCM-AS)]**

Fall. 4 credits. Next offered 2011-2012. S. Mohanty.]

**ENGL 4030 Studies in American Poetry: A. R. Ammons, John Ashbery, and Adrienne Rich (LA-AS)**

Fall. 4 credits. R. Gilbert.

A close study of three major contemporary American poets who have had unusually long and varied careers. We will survey each poet's work from his/her earliest books to the most recent, paying close attention to individual poems while charting significant shifts of style and content. We'll also consider each poet's engagement with extra-literary realms: science (Ammons), visual art (Ashbery), gender politics (Rich). Three essays; one or two in-class presentations.

**[ENGL 4040 Paleography, Bibliography, and Reception History (also ENGL 6040) # (LA-AS)]**

Spring. 4 credits. Next offered 2010-2011. A. Galloway.]

**ENGL 4050 The Politics of Contemporary Criticism (LA-AS)**

Spring. 4 credits. S. Mohanty.

An introduction to some of the major issues in contemporary criticism and theory, with primary focus on such questions as: What is a (literary or cultural) text? What is interpretation and can it ever be objective? How do cultural and social differences shape reading and interpretation? What views about knowledge, society, and politics underlie particular critical strategies and methodological choices? Drawing on representative essays and books from a variety of critical schools and traditions (from New Criticism to deconstruction, Marxism, hermeneutics, new historicism, and feminism), we will examine the competing claims of the various positions and focus on the implications of answers to the above questions for textual analysis. Readings from Cleanth Brooks, Jacques Derrida, Michel Foucault, Hans-Georg Gadamer, Sandra Harding, Fredric Jameson, Toni Morrison, Barbara Herrnstein Smith, Charles Taylor, and Richard Rorty, among others.

**ENGL 4072 Medieval Translation in Motion (also FREN/SHUM 4824)**

Fall. 4 credits. S. Chaganti.  
For description, see SHUM 4824.

**ENGL 4073 Abolitionist Circuits (also HIST/SHUM 4933)**

Spring. 4 credits. M. Schoolman.  
For description, see SHUM 4933.

**ENGL 4074 Art Writing: Tracing the Visible (also ARTH/VISST/SHUM 4934)**

Spring. 4 credits. M. Jacobus.  
For description, see SHUM 4934.

**[ENGL 4100 The Roots of Buffy the Vampire Slayer: Folklore and Medieval Romance]**

Spring. 4 credits. Prerequisites: there are no requirements as such but students should have some background in medieval literature and a reading knowledge of French and Middle English would be useful. *This course may be used as one of the three pre-1800 courses required of English majors.* Next offered 2010-2011. T. Hill.]

**[ENGL 4130 Middle English (also ENGL 6130) # (LA-AS)]**

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* Next offered 2010-2011. T. Hill.]

**[ENGL 4140 Bodies of the Middle Ages: Embodiment, Incarnation, Performance (also FGSS 4140) # (LA-AS)]**

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* Next offered 2010-2011. M. Raskolnikov.]

**ENGL 4170 The Archaeology of the Text from Chaucer through the Renaissance (also ENGL 6170) # (HA-AS)]**

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* A. Galloway.

**[ENGL 4190 The Old English Laws and Their Politico-Cultural Context (also ENGL 6090, HIST 4691/6691) # (CA-AS)]**

Fall. 4 credits. Next offered 2011-2012. P. Hyams and T. Hill.]

**[ENGL 4210 Shakespeare in (Con)Text (also THETR 4460, VISST 4546) # (LA-AS)]****[ENGL 4211 Advanced Seminar in the Renaissance: Literature, Science, and Renaissance Curiosities # (LA-AS)]**

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* Next offered 2011-2012. J. Mann.]

**[ENGL 4220 Renaissance "Traffick" # (LA-AS)]**

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* Next offered 2010-2011. R. Kalas.]

**[ENGL 4230 Renaissance Lyric # (LA-AS)]**

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* Next offered 2011-2012. B. Correll.]

**ENGL 4270 Advanced Seminar in Shakespeare: Shakespeare and Marlowe (also THETR 4270) # (LA-AS)]**

Fall. 4 credits. B. Correll.

This course brings together two of the most striking and powerful writers of the early modern period. Their work in drama and in verse, often innovative and path-breaking, provokes questions and thoughts not only about their historical relationship but also about issues of power (including the cultural authority of classical heritage), gender/sexuality, nation and empire. Texts will include *The Jew of Malta*, *The Merchant of Venice*, *Dido Queen of Carthage*, *Antony and Cleopatra*, *Tamburlaine I and II*, *Richard III*, *Edward II*, *Richard II*, *Hero and Leander*, *Venus and Adonis*, and some classical source material. There are no prerequisites for the course other than an adventurous mind and an appetite for work.

**[ENGL 4280 Problem Poems: Close Reading and Critical Debate # (LA-AS)]**

Spring. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* Next offered 2010-2011. F. Bogel.]

**[ENGL 4290 Adam's Rib and Other Divine Signs (also RELST 4290) # (LA-AS)]**

Spring. 4 credits. Next offered 2011-2012. L. Donaldson.]

**ENGL 4300 Romantic Beginnings**

Spring. 4 credits. C. Caruth.

This course presents a study of major Romantic writers with a focus on the nature of literary, political and historical beginnings. We will examine the portrayal of revolution as an ordinary historical and political event and consider its relation to poetic origination. Among our interests will be the role of language as the Romantic writers conceived it in both the literary and political spheres and the struggle with literary form as the site of radical beginning. We will also consider memory in the constitution of the past (and future) and the complex relation between remembering and creating. Themes include the child and orphan and the encounter with death, revolution and freedom (in Wordsworth, Coleridge, the Shelleys, Keats; political, literary theory; Douglass, Hawthorne, Melville).

**ENGL 4301 Rabinor Seminar: Queering Latinidad (also AMST 4301)**

Spring. 4 credits. M. P. Brady.

For description, see AMST 4301.

**ENGL 4303 Literature as History: The Americas (also AMST/COML 4303)**

Fall. 4 credits. B. Maxwell.

For description, see AMST 4303.

**[ENGL 4310 Defoe and His Contemporaries # (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012. N. Saccamano.]

**[ENGL 4321 Telling Fictions (also COML 4321)]**

Spring. 4 credits. Next offered 2011-2012. C. Chase.]

**[ENGL 4440 Romantic Drama (also ENGL 6440, THETR 4400/6440) (LA-AS)]**

Fall. 4 credits. Next offered 2011-2012. R. Parker.]

**ENGL 4450 Text Analysis for Production: How to Get from the Text onto the Stage (also THETR 4450)**

Spring. 4 credits. B. Levitt.

For description, see THETR 4450.

**[ENGL 4500 History of the Book # (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. K. Reagan.]

**ENGL 4508 The Harlem Renaissance (also ASRC 4508) (LA-AS)**

Fall. 4 credits. R. Richardson  
For description, see ASRC 4508.

**ENGL 4509 Toni Morrison's Novels (also ASRC 4509/6513)**

Spring. 4 credits. R. Richardson.  
For description, see ASRC 4509.

**ENGL 4515 Ariosto, Rabelais, Spenser (also ENGL 6515, COML/ROMS 4515/6515) (CA-AS)**

Fall. 4 credits. W. Kennedy.  
For description, see COML 4515.

**ENGL 4530 20th-Century Women Writers of Color (also AAS/FGSS 4530) (LA-AS)**

Fall. 4 credits. S. Wong.  
In this course, we'll be reading literature—primarily novels—produced by hemispheric American women writers of the mid- to late 20th century. We will look at how these writings articulate concerns with language, home, mobility, and memory, and at how the work is informed by the specificities of gender, race, region and class. Readings may include work by Leslie Marmon Silko, Sandra Cisneros, Theresa Hak Kyung Cha, Jamaica Kincaid, Gwendolyn Brooks, Ann Petry, Fae Myenne Ng, Carolivia Herron, Helena Maria Viramontes, and Shani Mootoo. Course requirements will include class presentations, short responses to the readings, and a longer research essay.

**[ENGL 4560 Constructing the Book, Reconstructing the Text (also ENGL 6500) # (LA-AS)]**

Fall. 4 credits. *This course may be used as one of the three pre-1800 courses required of English majors.* Next offered 2011–2012. C. Ruff.]

**ENGL 4580 Imagining the Holocaust (also COML 4830, GERST 4570, JWST 4580) (LA-AS)**

Spring. 4 credits. D. Schwarz.  
What is the role of the literary imagination in keeping the memory of the Holocaust alive for our culture? We shall examine major and widely read Holocaust narratives that have shaped the way we understand and respond to the Holocaust. We shall begin with first person reminiscences—Wiesel's *Night*, Levi's *Survival at Auschwitz*, and *The Diary of Anne Frank*—before turning to realistic fictions such as Kineally's *Schindler's List* (and Spielberg's film), Kertesz's *Fateless*, Kosinski's *The Painted Bird*, and Ozick's "The Shawl." We shall also read the mythopoeic vision of Schwarz-Bart's *The Last of the Just*, the illuminating distortions of Epstein's *King of the Jews*, the Kafkaesque parable of Appelfeld's *Badenheim 1939*, and the fantastic cartoons of Spiegelman's *Maus* books.

**[ENGL 4600 Melville (also AMST 4600) # (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012. B. Maxwell.]

**[ENGL 4601 Riddles of Rhythm (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. D. Fried.]

**[ENGL 4610 The American Short Story: Where We've Been, Where We're Going]**

Spring. 4 credits. Next offered 2011–2012. S. Vaughn.]

**[ENGL 4620 Advanced Seminar in Latina/o Studies: Chicana Feminisms in a Globalizing World (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. M. Brady.]

**[ENGL 4650 American Violence (LA-AS)]**

Fall. 4 credits. Next offered 2012–2013. S. Samuels.]

**[ENGL 4660 James on Film (also THETR 4660) (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012. D. Fried.]

**ENGL 4662 Contemporary U.S. American Indian Poetry (also AMST 4662)**

Fall. 4 credits. Next offered 2011–2012. E. Cheyfitz.]

**[ENGL 4690 The Paranoid Style in Contemporary American Fiction and Film (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. K. Attell.]

**[ENGL 4700 Senior Seminar in the Novel: Reading Joyce's *Ulysses* (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012. D. Schwarz.]

**[ENGL 4701 Documentary Recording, Writing, and Film (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012. J. Braddock.]

**ENGL 4710 Transatlantic Nature: Writing Natural History in 18th- and 19th-Century Literature**

Fall. 4 credits. L. Donaldson.

Transatlantic Nature is an interdisciplinary seminar that focuses on the literary and historical contexts of natural history writing in the 18th and early 19th centuries. Natural history is an important genre because it raises crucial questions about humanity's relationship to the natural world, the ethical implications of science, and the immersion of intellectual life in colonial history. It also occasioned some of the most exquisite art in the 18th and 19th centuries and anticipated many of the ecological insights of the modern world. This course will focus on the intersection of these dimensions as well as the intersection of natural history's geographical origins in both Europe and North America. Possible authors include William Bartram, Marc Catesby, Gilbert White, Maria Sybilla Merian, and John James Audubon.

**[ENGL 4725 Advanced Seminar in Postcolonial Literatures: Nation, Exile, and Migration in Postcolonial Literatures (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. E. Anker.]

**[ENGL 4740 Advanced Seminar on Major Authors: Hemingway, Fitzgerald, and Faulkner (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011.]

**ENGL 4750 Advanced Seminar in the 20th Century: AIDS Literature (also AMST 4755, FGSS 4751)**

Spring. 4 credits. D. Woubshet.  
AIDS is one of the hallmarks of our contemporary world, and the loss endured due to this pandemic has been of epic

proportions. In this seminar, we will consider literary and other responses to this cataclysmic event. We will give particular attention to the following questions: How do artists rely on, dilate, or overhaul antecedent conventions to express AIDS loss? What are the insights and limitations of particular stylistic and formal choices? How do artists balance consolation in the face of compounded crises? How are their creative responses shaping our interpretation of the history and memory of AIDS? Authors may include: Melvin Dixon, Tony Kushner, Paul Monette, Jamaica Kincaid, Susan Sontag, Essex Hemphill, Marlon Riggs, Larry Kramer, Thomas Glave, and Michael Cunningham.

**[ENGL 4780 Intersections in Lesbian Fiction (also AMST 4780, FGSS 4770) (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. K. McCullough.]

**[ENGL 4790 Advanced Seminar in American Literature: Visual Culture and Women's Literature (also AMST/FGSS 4790, VISST 4800) (LA-AS)]**

Fall. 4 credits. Next offered 2012–2013. S. Samuels.]

**[ENGL 4791 Transgender and Transexuality (also FGSS 4791) (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012. M. Raskolnikov.]

**ENGL 4800–4810 Seminar in Writing (LA-AS)**

4800; fall; 4810, spring. 4 credits.

For description, see section "Creative Writing."

**ENGL 4820 Hamlet: The Seminar (also THETR 4470) # (LA-AS)]**

Fall. 4 credits. B. Levitt.

For description, see THETR 4470.

**[ENGL 4840 Postcolonial Poetry and the Poetics of Relation (also COML 4290/6350, FREN 4350/6850, SPAN 4350/6350) (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. J. Monroe.]

**[ENGL 4860 American Indian Women's Literature (also AIS 4860) (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. L. Donaldson.]

**ENGL 4880 Contemporary Poetry and Poetics (also COML 4860) (LA-AS)]**

Fall. 4 credits. J. Monroe.

For description, see COML 4860.

**ENGL 4910 Honors Seminar I**

Fall. 4 credits. Open to students in the Honors Program in English or related fields, or by permission of instructor.

Sem 1: Reading Joyce's *Ulysses*

D. Schwarz. A thorough episode-by-episode study of the art and meaning of Joyce's *Ulysses*. We shall place *Ulysses* in the context of Joyce's canon, Irish culture, and literary modernism. We shall explore the relationship between *Ulysses* and other experiments in modernism—especially painting and sculpture—and show how *Ulysses* redefines the concepts of epic, hero, and reader. We shall discuss how *Ulysses* raises major issues about the city, colonialism, and popular culture, and dramatizes what it means for the central character to be a Jew and an outsider in Dublin. We shall also discuss strategies of reading and approaches to literary study. No previous experience with Joyce is required.

Sem 2: Accident and Allusion in Romantic Writing

Chase, C. Accidents are a theme and a problem for "solitary walkers" and city-dwellers of the late 18th and early 19th century such as Wordsworth, Rousseau, Coleridge, and Shelley. "Love of nature" makes for unexpected storylines. A child attached to lakes happens upon a drowning; a philosopher—botanizing—is knocked out by a Great Dane. How do such moments sustain our belief that the mind is not reliant on chance, fate, or nature? In this course we will examine how accident and choice are linked with meter, images, and echoes of other's writing. So-called Romantics leave us asking where their feelings are allusions, and how our histories are shared.

#### ENGL 4920 Honors Seminar II

Spring. 4 credits. Open to students in the Honors Program in English or related fields, or by permission of instructor.

Sem 1: Formalist Analysis of Poetry and Prose

F. Bogel. Formalist criticism made its first significant appearance in England and America in the 1930s and 1940s under the label "The New Criticism." Since then, its fortunes have fallen and risen several times, and it has been revised, rejected, adapted, vilified, and much else, surviving mainly in the techniques of "close reading," or detailed analysis of the linguistic features of poetry and prose. This seminar, focusing on English and American poems and prose works, will explore the possibilities, assumptions, strategies, and limitations of contemporary formalist analysis, and its relation to other modes of critical analysis such as psychoanalytic criticism, feminist and gender criticism, and deconstruction. Readings in criticism and theory will combine with critical analysis of poetry and prose. A principal aim of the seminar is to deepen and enrich the interpretive skills that will be put to work in students' honors theses.

Sem 2: Defenses of Poetry

D. Fried. Liars, dreamers, lunatics, rebels, sorcerers, slackers, zealots, pervers: poets have been called many harsh names from Plato to the present. We will study charges brought against poetry and hear the case for the defense from such advocates as Sidney, Dryden, Wordsworth, Shelley, Arnold, Stevens, Moore, Kermode, and Kinzie. The trial includes debates about particulars and universals, poetic language and everyday speech, sincerity and imagination, verseforms and emotion, authenticity and ambiguity, pleasure and politics. We will call to the witness stand poets, literary theorists, philosophers, and a few novelists, film critics, and cognitive scientists. Readings may include Shakespeare, Spenser, Donne, Milton, Pope, Gray, Coleridge, Keats, Tennyson, Hardy, Dickinson, Whitman, Frost, Williams, Moore, Stevens, Woolf, James, and others.

#### ENGL 4930 Honors Essay Tutorial I

Fall or spring. 4 credits. Prerequisites: senior standing and permission of director of the Honors Program.

#### ENGL 4940 Honors Essay Tutorial II

Fall or spring. 4 credits. Prerequisites: ENGL 4930 and permission of director of the Honors Program.

#### ENGL 4950 Independent Study

Fall or spring. 2-4 credits. Prerequisites: permission of departmental advisor and director of undergraduate studies.

#### Courses Primarily for Graduate Students

Permission of the instructor is a prerequisite for admission to courses numbered in the 6000s. These are intended primarily for graduate students, although qualified undergraduates are sometimes admitted. Undergraduates seeking admission to a 6000-level course should consult the instructor. The list of courses given below is illustrative only; a definitive list, together with course descriptions and class meeting times, is published in a separate department brochure before course enrollment each semester.

#### Graduate Courses in English 2009-2010

##### Fall

#### ENGL 6000 Colloquium for Entering Students

A. Galloway.

#### ENGL 6110 Old English (also ENGL 3110)

S. Zacher.

#### ENGL 6151 Visionaries and Vision Literature in the Middle Ages

A. Galloway.

#### ENGL 6207 Black Feminist Theories (also ASRC 6207)

C. Boyce Davies.

#### ENGL 6281 Elizabethan and Jacobean Drama and Criticism

J. Mann.

#### ENGL 6330 Satire, Sensibility, Imitation, and Mechanism in 18th-Century Literature

F. Bogel.

#### ENGL 6390 Studies in Romantic Literature: Writers of the Revolution

R. Parker.

#### ENGL 6401 Africana Thought (also ASRC 6400)

G. Farred.

#### ENGL 6515 Ariosto, Rabelais, Spenser (also ENGL 4515, COML/ROMS 4515/6515)

W. Kennedy.

#### ENGL 6760 Theory and Poetics of the Novel

H. Shaw.

#### ENGL 6792 Theory of the Lyric (also ENGL 6792)

J. Culler.

#### ENGL 6830 Contemporary Global Fiction (also COML 6050)

W. Cohen.

#### ENGL 6931 Human Rights

E. Anker.

#### ENGL 6995 Race and Time

S. Wong.

#### ENGL 7020 Decolonization and Culture: Key Issues in Contemporary Theory

S. Mohanty.

#### ENGL 7800 M.F.A. Seminar: Poetry

L. Van Clief-Stefanon.

#### ENGL 7801 M.F.A. Seminar: Fiction

J. Lennon.

#### ENGL 7850 Close Reading for Writers: American Realisms, American Unrealisms

S. Vaughn.

##### Spring

#### ENGL 5850 Linguistic Theory and Poetic Structure (also ENGL 2960, LING 2850/5850)

J. Bowers.

#### ENGL 6120 Beowulf (also ENGL 3120)

T. Hill.

#### ENGL 6190 Chaucer and Gower

A. Galloway.

#### ENGL 6290 Milton: Authorship and Transgression

R. Kalas.

#### ENGL 6320 Studies in 18th-Century Literature: Key Texts of Modernity

L. Brown.

#### ENGL 6402 The Politics of Theory (also ASRC 6401)

G. Farred.

#### ENGL 6411 After the End: Literature in the Ashes of History

C. Caruth.

#### ENGL 6551 Decadence (also ENGL 3550, COML/FGSS 3550/6551)

E. Hanson.

#### ENGL 6571 Modernist Feminism, Feminist Modernism (also FGSS 6571)

M. Hite.

#### ENGL 6611 What Is a Just Society? Native American Philosophies and the Limits of Capitalism's Imagination (also AMST 6611)

E. Cheyfitz.

#### ENGL 6772 Spaces of Cultural Studies

J. Juffer.

#### ENGL 7810 MFA Seminar: Poetry

K. McClane.

#### ENGL 7811 MFA Seminar: Fiction

E. Quinonez.

#### ENGL 7850 Reading for Writers: Contemporary Poetry and Poetics.

A. Fulton.

## EUROPEAN STUDIES MINOR

Sydney Van Morgan, coordinator

Students from any college may choose an undergraduate minor in European studies to complement any major. The purpose of the minor is to provide a coherent structure for students with an interest in interdisciplinary study in the field of European studies.

The minor has three tracks: European politics, economics, and society; modern European history; and European culture. The requirements for the minor are:

1. Competence in at least one modern European language, Romance, Germanic, or Slavic (i.e., completion of a fifth-semester course or equivalent with a grade of at least B-, or demonstration of an advanced level of competence in an oral proficiency interview test where available).

2. Completion of an interdisciplinary core course:

**GOVT/SOC 3413 Modern European Society and Politics (SBA-AS)**

Fall. 4 credits. S. Van Morgan.

Under certain conditions, students may be permitted to substitute other courses for those listed above.

3. Completion of one course in modern (post-1789) European history.
4. Three additional courses in any of the three areas, which may include a senior seminar (4000 level).
  - a. Courses in European and comparative politics; anthropology; sociology, feminist, gender and sexuality (FGSS) studies; and related courses in the School of Hotel Administration, the College of Agriculture and Life Sciences, and the School of Industrial and Labor Relations.
  - b. Courses in modern European history (post-1789).
  - c. Courses in (post-1789) English and European literatures, comparative literature, semiotics, FGSS, fine arts, architecture, music, philosophy, and film and theatre arts.

Only two courses may be used to satisfy requirements for both the major and the minor. Courses satisfying the breadth and distribution requirements in the College of Arts and Sciences, however, may be applied to the minor. Students interested in conducting research in Europe may apply for the Frederic Conger Wood or Susan R. Tarrow undergraduate research fellowship in their junior year. All minors are encouraged to participate in the Language House Program, the Model European Union simulation, and study abroad. Courses taken abroad may be applied to the minor if they are approved for Cornell credit. Undergraduates in the College of Arts and Sciences can major in European Studies through the independent major or the College Scholar Program.

For a complete list of relevant courses and seminars, departmental advisors, and any further information, contact Sydney Van Morgan, coordinator of the European Studies minor, at the Cornell Institute for European Studies, 120 Uris Hall, 255-7592, sydney.vanmorgan@cornell.edu, www.einaudi.cornell.edu/Europe.

## FEMINIST, GENDER, & SEXUALITY STUDIES

Core faculty: A. Basu, S. Bem, L. Benería, D. Castillo, I. DeVault, S. Feldman, M. Fernandez, J. Fortune, J. E. Gainor, D. Ghosh, E. Hanson, M. Hite, C. Howie, J. Juffer, M. Katzenstein, P. Liu, K. Long, K. March, S. Martin, K. McCullough, M. B. Norton, J. Peraino, M. Raskolnikov, S. Samuels, D. Schrader, S. Sethi, A. Villarejo, S. Warner, R. Weil, D. Woubshet

Cross-listing faculty: A. Alexandridis, E. Baptist, J. Bernstock, F. Blau, L. Bogel, C. Boyce-Davies, J. Byfield, T. Carroll, D. Chang, K. Cohen, B. Correll, M. Evangelista, Z. Fahmy, M. Greenberg, S. Haenni, K. Haines-Eitzen, P. Hyams, C. Lazzaro, T. Loos, S. Mettler, A. Parrot, R. Prentice, S. Pritchard, M. Rossiter, N. Russell, N. Sakai, N. Salvato, S. Sangren, R. Savin-Williams, N. Sethi, A. M. Smith, M. C. Vallois, L. Van Buskirk, M. Warner, M. Washington, S. Wong

### Introduction to the Program

The Feminist, Gender, & Sexuality Studies Program (FGSS) is an interdisciplinary program in the College of Arts and Sciences that seeks to deepen our understanding of gender and sexuality. Since its founding in 1972 as Women's Studies, the Program has integrated the study of gender with complex structures of power and inequality including race, sexuality, class, and nation. Over the past several decades, the curriculum has also increasingly broadened its scope theoretically and methodologically to encompass cultural, historical, literary, scientific, and quantitative analysis. Students find that these innovative methods and theories enhance their lifelong personal and intellectual growth, as well as their professional development insofar as they prepare students for future study or work in a wide variety of fields: law, medicine, social policy, art, psychology, literature, and so on.

The Program is built around several assumptions about the study of gender and sexuality. First, understandings of sex, sexuality, and gender are neither universal nor immutable; to study them is to gain a fuller understanding of human behavior, culture and society across times and places as well as to gain a sense of how these social constructions shape us as individuals. Second, gender and sexuality are best understood when examined in relation to one another by learning about women and men of different economic classes, sexual orientations, and cultural and racial backgrounds. Third, even the most current knowledge derived from the humanities, social sciences and natural sciences is not as impartial, objective, or neutral but instead emerges out of particular historical and political contexts. Students, as a consequence, transfer the critical and analytical skills they acquire in FGSS courses to other courses and activities beyond Cornell.

### Program Offerings

Feminist, Gender, & Sexuality Studies offers an undergraduate major, an undergraduate minor, and a graduate minor. Undergraduate students in the College of Arts and Sciences who wish to major in FGSS may apply directly to the program. Undergraduate students in other colleges at Cornell will need to work out special arrangements and should speak to FGSS's director of undergraduate studies (DUS).

#### The Undergraduate Major: FGSS

1. **Prerequisite courses:** Before applying to the major, the student must complete any two FGSS courses with a grade of B- or better. For FGSS courses that are cross-listed with another department, students may register through FGSS or the cross-listing department. Suggested entry-level courses include any FGSS course at the 2000 level, especially 2010 and 2020, both

of which are required for completion of the major. FGSS courses at the 2000 level or above may count as both prerequisites and as part of the FGSS major. First-year writing seminars may count as prerequisites but not as part of the major.

#### 2. Required course work:

- a. A minimum of 36 credits in FGSS courses with a grade of C- or higher is required for the major. For FGSS courses that are cross-listed, students may register through FGSS or the cross-listing department.
- b. These 36 credits must include the following three courses:
  - FGSS 2010 Introduction to Feminist, Gender, and Sexuality Studies
  - FGSS 2020 Introduction to Feminist, Gender, and Sexuality Theories
  - FGSS 4000 Senior Seminar in Feminist, Gender, and Sexuality Studies
- c. The 36 credits must also include at least one FGSS course with a significant focus on each of the following three categories: (Note: Although a given course may satisfy one, two, or even three of these categories, a given student must take at least two courses to fulfill this requirement):
  - LBG studies
  - Intersecting structures of oppression: race, ethnicity, and/or class
  - Global perspectives: Africa, Asia, Latin America, or Middle East, by itself or in a comparative or transnational framework. Students may choose from the list in the course catalog or at the FGSS office.

A student with a double major may count up to three FGSS courses toward the FGSS major that she/he is simultaneously counting toward a second major.

**The Honors Program:** To graduate with honors, a student majoring in FGSS must complete a senior thesis under the supervision of an FGSS faculty member and defend that thesis orally before an honors committee. To be eligible, a student must have at least a cumulative 3.0 GPA in all course work and a 3.3 GPA in all courses applying to their FGSS major. Students interested in the honors program should consult the DUS late in the spring semester of their junior year, or very early in the fall semester of their senior year.

#### The FGSS Undergraduate Minor

Undergraduate students in any college at Cornell may minor in Feminist, Gender, & Sexuality Studies in conjunction with a major defined elsewhere in the university. The minor consists of five FGSS courses with a grade of C- or higher, through FGSS or the cross-listing department that are completed with a grade of C- or above, none of which may be counted toward the student's non-FGSS major. An exception to this rule may be made for students in the contract colleges, who may petition the FGSS DUS to count one course from their major toward the FGSS minor. First-year writing seminars may not be included within the five required courses. Students wishing to minor in FGSS should see the DUS. The five courses required for the FGSS Undergraduate Minor must include:

FGSS 2010 Introduction to Feminist, Gender, and Sexuality Studies

FGSS 2020 Introduction to Feminist, Gender, and Sexuality Theories

Any FGSS course that satisfies at least one of the three categories required for a major as defined above.

Any two additional FGSS courses of the student's choice.

### The LGBT Undergraduate Minor

FGSS serves as home to the Lesbian, Gay, Bisexual, & Transgender (LGBT) Studies Program, which offers an undergraduate minor as well as a graduate minor. The undergraduate minor consists of four courses. For a complete listing of all courses that will fulfill this minor please see the LGBT Studies portion of this catalog.

#### 1. First-Year Writing Seminars

##### FGSS 1060 FWS: Women and Writing (also ENGL 1060)

Fall and spring, 3 credits. Staff.

#### 2. Courses

##### FGSS 2010 Introduction to Feminist, Gender, and Sexuality Studies (CA-AS)

Fall and spring, 4 credits. J. Juffer and S. Martin.

Feminist, Gender, & Sexuality Studies is an interdisciplinary program focused on understanding the impact of gender and sexuality on the world around us and on the power hierarchies that structure it. This course focuses mainly on the experiences, historical conditions, and concerns of women as they are shaped by gender and sexuality both in the present and the past. Students read a variety of texts, personal narratives, historical documents, and cultural criticism across a range of disciplines. In doing so students consider how larger structural systems of both privilege and oppression affect individuals' identities, experiences, and options, and simultaneously examine forms of agency and action taken by women in the face of these larger systems.

##### FGSS 2020 Introduction to Feminist, Gender, and Sexuality Theories (also VISST 2020) (CA-AS)

Spring, 4 credits. H. Hoehchst.

Introduces students to critical approaches in feminist scholarship to the cultural, socioeconomic, and political situation(s) of women. Particular attention is paid to the conceptual challenges and dangers posed by attempts to study women without taking account of relations between race, class, and gender in ideological and social formations. Readings draw on work in various disciplines and include literary texts and visual images.

##### [FGSS 2090 Seminar in Early American History (also AMST/HIST 2090)

Fall, 4 credits. Next offered 2010-2011. M. B. Norton.]

##### [FGSS 2120 African American Women: 20th Century (also AMST/HIST 2120)

Spring, 4 credits. Next offered 2010-2011. M. Washington.]

##### [FGSS 2140 Biological Basis of Sex Differences (also BIOAP 2140, BSOC 2141) (PBS)

Fall, 3 credits. Offered alternate years. Next offered 2010-2011. J. Fortune.]

##### [FGSS 2190 Women and Gender in South Asia (also ASIAN 2219, HIST 2190) @ (HA-AS)

Fall, 4 credits. Next offered 2010-2011. D. Ghosh.]

##### [FGSS 2460 Contemporary Narratives by Latina Writers (also LSP/SPAN 2460)

Fall, 3 credits. Next offered 2011-2012. Staff.]

##### FGSS 2490 Feminism and Philosophy (also PHIL 2490) (KCM-AS)

Fall, 4 credits. N. Sethi.  
For description, see PHIL 2490.

##### [FGSS 2730 Women in American Society, Past and Present (also AMST/HIST 2730)

Fall, 4 credits. Next offered 2010-2011. M. B. Norton.]

##### [FGSS 2760 Desire (also COML/ENGL 2760, THETR 2780)

Spring, 4 credits. Next offered 2011-2012. E. Hanson.]

##### FGSS 2840 Sex, Gender, and Communication (also COMM 2840)

Fall, 3 credits. L. Van Buskirk.  
For description, see COMM 2840.

##### [FGSS 3130 Special Topics in Drama and Performance (also THETR 3130)

Fall, 4 credits. Next offered 2010-2011. S. Warner.]

##### [FGSS 3040 Sex, Power, and Politics (also GOVT 3043)

Spring, 4 credits. Next offered 2010-2011. S. Martin.]

##### [FGSS 3070 African American Women in Slavery and Freedom (also AMST/HIST 3030) # (HA-AS)

Spring, 4 credits. Next offered 2010-2011. M. Washington.]

##### [FGSS 3130 Special Topics in Drama and Performance (also THETR 3130)

Fall, 4 credits. Next offered 2010-2011. S. Warner.]

##### FGSS 3210 Sex and Gender in Cross-Cultural Perspective (also ANTHR 3421) @ (SBA-AS)

Fall, 4 credits. K. March.  
For description, see ANTHR 3421.

##### [FGSS 3221 Lives of Scientists and Engineers (also STS 3221)

Spring, 4 credits. Next offered 2010-2011. M. Rossister.]

##### FGSS 3250 Queer Performance (also THETR 3260) (LA-AS)

Fall, 4 credits. S. Warner.  
For description, see THETR 3260.

##### FGSS 3251 History of the Family in the U.S. (also AMST/HIST 3251) (HA-AS)

Spring, 4 credits. T. Carroll.  
For description, see HIST 3251.

##### [FGSS 3370 Contemporary American Theater (also THETR/AMST 3370)

Spring, 3 credits. Next offered 2010-2011. S. Warner.]

##### FGSS 3440 Male and Female in Chinese Culture and Society (also ANTHR 3554) @ (SBA-AS)

Fall, 4 credits. S. Sangren.  
For description, see ANTHR 3554.

##### [FGSS 3450 American Film (also AMST/ENGL 3440, VISST 3645) (LA-AS)

Spring, 4 credits. Next offered 2010-2011. S. Haenni.]

##### FGSS 3470 Asian American Women's History (also AAS/AMST/HIST 3470) (CA-AS)

Spring, 4 credits. D. Chang.  
For description, see HIST 3470.

##### [FGSS 3480 Studies in Women's Literature (also AMST 3431, ENGL 3480) (LA-AS)

Spring, 4 credits. Next offered 2010-2011. K. McCullough.]

##### FGSS 3500 Contemporary Issues in Women's Health (also PAM 3500)

Spring, 3-5 variable credits. A. Parrot.  
For description, see PAM 3500.

##### FGSS 3510 Caribbean Literature (also ASRC/ENGL 3510) (LA-AS)

Fall, 4 credits. C. Boyce-Davies.  
For description, see ASRC 3510.

##### FGSS 3550 Decadence (also COML/ENGL 3550) (LA-AS)

Spring, 4 credits. E. Hanson.  
For description, see ENGL 3550.

##### [FGSS 3580 Theorizing Gender and Race in Asian Histories and Literatures (also ASIAN 3388/6688, COML 3980/6680) @ (CA-AS)

Spring, 4 credits. Next offered 2010-2011. N. Sakai.]

##### FGSS 3590 Consuming Passions: Media, Space, and the Body (also ENGL 3590) (CA-AS)

Spring, 3 credits. J. Juffer.  
This course examines the intersections of gender, sexuality, space, and popular culture. Ranging across media—film, literature, television, and music—the class analyzes how these different forms represent and constitute gendered and sexed bodies. How does the Lifetime channel, for example, represent itself as a woman's space? Spike as a man's space? Are these distinctions breaking down, resulting in more hybrid genres? How do race, ethnicity, age, and class figure in? We connect media to sites of production, distribution, and consumption, such as the theater, the home, and cyberspace with particular emphasis on the affective and often passionate realm of consumption. Questions of access are considered: which technologies have provided access to marginalized groups, and on what terms? What are the political possibilities of popular culture, and what are the intersections of politics and pleasure?

##### FGSS 3600 Gender and Globalization (also CRP/LATA 3650) (SBA-AS)

Fall, 3 credits. L. Benería.  
This course invites students to think globally about gender issues and to trace the connections between global, national and local perspectives.

##### [FGSS 3630 Age of Realism and Naturalism (also AMST/ENGL 3630) (LA-AS)

Spring, 4 credits. Next offered 2011-2012. K. McCullough.]

**[FGSS 3680 Marriage and Sexuality in Medieval Europe (also HIST 3680) # (HA-AS)]**

Spring. 4 credits. Next offered 2010–2011. P. Hyams.]

**[FGSS 3690 Fast-Talking Dames and Sad Ladies (also ENGL/FILM 3690) (LA-AS)]**

Spring. 4 credits. L. Bogel. For description, see ENGL 3690.

**[FGSS 3700/6700 Gender and Age in Archaeology (also ANTHR/ARKEO 3269/6269)]**

Fall. 4 credits. Next offered 2010–2011. N. Russell.]

**[FGSS 3702 Desire and Cinema (also COML/ENGL 3702) (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012. E. Hanson.]

**[FGSS 3720 Food, Gender, Culture (also ENGL 3721, AMST 3720)]**

Fall. 4 credits. K. McCullough.

In addition to nourishing the body, food operates as a cultural system that produces and reflects group and individual identities. In this class we will examine foodways—the behaviors and beliefs attached to the production, distribution, and consumption of food—to explore the way food practices help shape our sense of gender, race, sexual orientation, and national identity. In doing so we will focus primarily on literature and film but will also range into the fields of anthropology, sociology, and history. Some questions under discussion: How do factors such as gender, class, race, and religion shape the foods we eat and the circumstances in which we eat them? How do writers use the language of food to explore issues such as gender, sexuality, class and race?

**[FGSS 3850 Gender and Sexual Minorities (also HD 3840)]**

Fall. 3 credits. K. Cohen. For description, see HD 3840.

**[FGSS 3990/3991 Undergraduate Independent Study]**

Fall and spring. 1–4 credits. Prerequisites: one course in Feminist, Gender, and Sexuality Studies and permission of a Feminist, Gender, and Sexuality Studies faculty member. Staff.

**[FGSS 4000 Senior Seminar in Feminist, Gender, and Sexuality Studies]**

Fall. 4 credits. Prerequisite: requirement for and limited to Feminist, Gender, and Sexuality Studies majors and undergraduate minors. K. McCullough.

Although the topic/focus of this course surely varies with the instructor, it is always treated as a broad capstone course for majors.

**[FGSS 4021 Bodies in Medicine, Science, and Culture (also BSOC/STS 4021)]**

Spring. 4 credits. Next offered 2010–2011. R. Prentice.]

**[FGSS 4040 Women Artists (also ARTH 4610) (LA-AS)]**

Fall. 4 credits. J. Bernstock. For description, see ARTH 4610.

**[FGSS 4060 The Culture of Lives (also ANTHR 4406) @ (CA-AS)]**

Spring. 4 credits. Next offered 2010–2011. K. March.]

**[FGSS 4100 Health and Survival Inequalities (also DSOC/SOC 4100) (SBA/AS)]**

Fall. 4 credits. A. Basu. For description, see DSOC 4100.

**[FGSS 4140 Bodies in the Middle Ages: Embodiment, Incarnation, Performance (also ENGL 4140) # (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. M. Raskolnikov.]

**[FGSS 4141 Women's Activism and Social Change in the 20th-Century U.S. (also HIST 4141) (HA-AS)]**

Fall. 4 credits. T. Carroll. For description, see HIST 4141.

**[FGSS 4160 Gender and Sexuality in Southeast Asia (also ASIAN 4416, HIST 4160/6160) @ (CA-AS)]**

Fall. 4 credits. Next offered 2011–2012. T. Loos.]

**[FGSS 4210 Theories of Reproduction (also DSOC/SOC 4210) (SBA-AS)]**

Spring. 4 credits. A. Basu. For description, see DSOC 4210.

**[FGSS 4220 New York Women (also HIST/STS 4221) (HA-AS)]**

Fall. 4 credits. M. Rossiter. For description, see STS 4221.

**[FGSS 4231 Gender and Technology (also BSOC/HIST/STS 4231) (HA-AS)]**

Spring. 4 credits. S. Pritchard. For description, see STS 4231.

**[FGSS 4232 Images of Women in Antiquity (also ARTH 4232, CLASS 4732) # (CA-AS)]**

Spring. 4 credits. Next offered 2011–2012. A. Alexandridis.]

**[FGSS 4270 Parody (also THETR 4200/6200) (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. N. Salvato.]

**[FGSS 4330 The Female Dramatic Tradition (also THETR 4360/6360, FGSS 6330)]**

Spring. 4 credits. Next offered 2010–2011. S. Warner.]

**[FGSS 4440 Historical Issues of Gender and Science (also STS 4441) (CA-AS)]**

Spring. 4 credits. M. Rossiter. For description, see STS 4441.

**[FGSS 4450 American Men (also AMST/HIST 4440) (HA-AS)]**

4 credits. Next offered 2010–2011. E. Baptist.]

**[FGSS 4460 Women in the Economy (also ILRLE 4450, ECON 4570)]**

Spring. 4 credits. F. Blau. For description, see ILRLE 4450.

**[FGSS 4480 Global Perspectives on Violence against Women (also PAM 4440)]**

Spring. 3 credits. Next offered 2010–2011. A. Parrot.]

**[FGSS 4507 Black Women Writers: International Dimensions (also ASRC 4507/6507, FGSS 6507) (LA-AS)]**

Fall. 4 credits. C. Boyce-Davies. For description, see ASRC 4507.

**[FGSS 4510 Women in Italian Renaissance Art (also ARTH 4450) # (HA-AS)]**

Spring. 4 credits. Next offered 2010–2011. C. Lazzaro.]

**[FGSS 4530 20th-Century American Women Writers of Color (also AAS/AMST/ENGL 4530) (LA-AS)]**

Fall. 4 credits. S. Wong. For description, see ENGL 4530.

**[FGSS 4610 Sexuality and the Law (also AMST/GOVT 4625, FGSS 7620, GOVT 7625)]**

Spring. 4 credits. Next offered 2011–2012. A. M. Smith.]

**[FGSS 4630 Feminist Theory/Law and Society (also AMST 4590, GOVT 4635)]**

Fall. 4 credits. Next offered 2010–2011. A. M. Smith.]

**[FGSS 4640 Women in the Modern Middle East (also HIST/NES 4642)]**

Spring. 4 credits. Next offered 2010–2011. Z. Fahmy.]

**[FGSS 4740/6740 Feminism, Post-Feminism, Cyberfeminism (also ARTH 4740/6740)]**

Spring. 4 credits. Next offered 2011–2012. M. Fernandez.]

**[FGSS 4751 Advanced Seminar in the 20th Century: AIDS Literature (also ENGL 4750, AMST 4755)]**

Spring. 4 credits. D. Woubshet. For description, see ENGL 4751.

**[FGSS 4770 Intersections in Lesbian Fiction (also AMST/ENGL 4780)]**

4 credits. Next offered 2011–2012. K. McCullough.]

**[FGSS 4790 Advanced Seminar in American Literature: Visual Culture and Women's Literature (also AMST/ENGL 4790, ARTH 4979, VISST 4800)]**

Fall. 4 credits. Next offered 2010–2011. S. Samuels.]

**[FGSS 4791 Transgender and Transexuality (also ENGL 4791) (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011. M. Raskolnikov.]

**[FGSS 4950 Gender and Power in England: 1600–1800 (also HIST 4950) # (CA-AS)]**

Spring. 4 credits. R. Weil. For description, see HIST 4950.

**[FGSS 4990/4991 Senior Honors Thesis]**

Fall and spring. 1–8 credits. Prerequisite: FGSS seniors only. Staff. To graduate with honors, FGSS majors must complete a senior thesis under the supervision of a FGSS faculty member and defend that thesis orally before an honors committee. To be eligible for honors, students must have at least a cumulative GPA of 3.0 in all course work and a 3.3 average in all courses applying to their FGSS major. Students interested in the honors program should consult the DUS late in the spring semester of their junior year or very early in the fall semester of their senior year.

**[FGSS 6030 The Question of Feminist and Queer Criticism in Premodern Studies (also ENGL 6030)]**

Spring. 4 credits. Next offered 2011–2012. M. Raskolnikov.]

**[FGSS 6040 Passionate Politics: Affect, Protest, Performance (also THETR 6060)]**

Spring. 4 credits. Next offered 2010–2011. S. Warner.]

**[FGSS 6050 Camp, Kitsch, and Trash (also ENGL 6510, THETR 6050)]**

Spring. 4 credits. N. Salvato.  
For description, see THETR 6050.

**[FGSS 6060 Psychology of Adolescence in Case Study (also EDUC 6170)]**

Spring. 3 credits. Next offered 2010–2011. D. Schrader.]

**[FGSS 6140 Gender and International Development (also CRP 6140)]**

Spring. 3 credits. Next offered 2010–2011. L. Beneria.]

**[FGSS 6170 Feminist Methodology (also GOVT 6423)]**

Spring. 4 credits. Next offered 2010–2011. S. Martin.

This course seeks to familiarize students with primarily qualitative methodological tools to be applied to individual research questions.]

**[FGSS 6180 The Psychology of Moral Development and Education (also EDUC 6160)]**

Fall. 3 credits. Next offered 2010–2011. D. Schrader.]

**[FGSS 6207 Black Feminist Theories (also ASRC/ENGL 6207, COML 6465)]**

Fall. 4 credits. C. Boyce-Davies.  
For description, see ASRC 6207.

**[FGSS 6232 Images of Women in Antiquity (also ARTH 6232, CLASS 7732)]**

Spring. 4 credits. Next offering 2011–2012. A. Alexandridis.]

**[FGSS 6240 Epistemological Development and Reflective Thought (also EDUC 6140)]**

Fall. 3 credits. D. Schrader.  
For description, see EDUC 6140.

**[FGSS 6304 Marriage and Divorce in the African Context (also ASRC 6304)]**

Fall. 4 credits. J. Byfield.  
For description, see ASRC 6304.

**[FGSS 6310 Sex and Gender in Cross-Cultural Perspective (also ANTHR 6421)]**

Fall. 4 credits. K. March.  
For description, see ANTHR 6421.

**[FGSS 6360 Comparative History of Women and Work (also ILRIC 6360)]**

Spring. 4 credits. Next offered 2010–2011. I. DeVault.]

**[FGSS 6370 Parody (also THETR 4200/6200)]**

Spring. 4 credits. Next offered 2010–2011. N. Salvato.]

**[FGSS 6400 Historical Issues of Gender and Science (also HIST 6410, STS 6401)]**

Fall. 4 credits. S. Seth.  
For description, see STS 6401.

**[FGSS 6470 The Theatricality of Gender, Philosophy, and French Literature (also FREN 6470)]**

Fall. 4 credits. M. C. Vallois.  
For description, see FREN 6470.

**[FGSS 6540 Queer Theory (also COML/ENGL 6540)]**

4 credits. Next offered 2010–2011. E. Hanson.]

**[FGSS 6544 Gender and Politics (also GOVT 6544)]**

Fall. 4 credits. S. Martin and S. Mettler.  
For description, see GOVT 6544.

**[FGSS 6550 Modernist Fiction and the Erotics of Style (also ENGL 6550)]**

Spring. 4 credits. Next offered 2010–2011. E. Hanson.]

**[FGSS 6551 Decadence (also ENGL 6551)]**

Spring. 4 credits. E. Hanson.  
For description, see ENGL 6551.

**[FGSS 6571 Modernist Feminism, Feminist Modernism (also ENGL 6571)]**

Spring. 4 credits. M. Hite.  
For description, see ENGL 6571.

**[FGSS 6580 Theorizing Gender and Race in Asian Histories and Literatures (also ASIAN 6880, COML 6680)]**

Spring. 4 credits. Next offered 2010–2011. N. Sakai.]

**[FGSS 6610 Erotics of Visuality (also ENGL 6610)]**

Spring. 4 credits. Next offered 2011–2012. E. Hanson.]

**[FGSS 6700 Gender and Age in Archeology (also ANTHR/ARKEO 6269)]**

Spring. 4 credits. Next offered 2010–2011. N. Russell.]

**[FGSS 6811 James Baldwin (also AMST/ENGL 6811)]**

Fall. 4 credits. Next offered 2010–2011. D. Woubshet.]

**[FGSS 6990 Topics in Feminist, Gender, and Sexuality Studies]**

Fall and spring. Variable credit. Staff. Independent reading course for graduate students on topics not covered in regularly scheduled courses. Students develop a course of readings in consultation with a faculty member in the field of Feminist, Gender, and Sexuality Studies who has agreed to supervise the course work.

**[FGSS 7620 Sexuality and the Law (also FGSS 4610, 7625, GOVT 4625)]**

Spring. 4 credits. Next offered 2011–2012. A. M. Smith.]

**FILM**

See "Department of Theatre, Film, and Dance."

**FIRST-YEAR WRITING SEMINARS**

For information about the requirements for writing seminars and descriptions of seminar offerings, see the John S. Knight Institute web site: [www.arts.cornell.edu/knight\\_institute](http://www.arts.cornell.edu/knight_institute).

**FRENCH**

See "Romance Studies."

**GERMAN STUDIES**

L. Adelson; C. Alm (Swedish); B. Buettner, associate language program director; P. Gilgen; A. Groos; P. U. Hohendahl; C. Hosea (Dutch); G. Lischke, language program director and director of undergraduate studies; G. Matthias; D. McBride; P. McBride, acting director of graduate studies; A. Schwarz, department chair; G. Waite. Emeritus: D. Bathrick, H. Deinert.

The Department of German Studies offers students a wide range of opportunities to explore the literature and culture of German-speaking countries, whether as part of their general education, a major in German Studies, a double major, or a German minor involving another discipline, or as preparation for graduate school or an international professional career. Courses are offered in German as well as in English; subjects range from medieval to contemporary literature and from film and visual culture to intellectual history, music, history of psychology, and feminist, gender, and sexuality studies.

The course offerings in German begin with GERST 1210–1220, 1230 (introductory language level). Students then continue with intermediate-level courses, which provide further grounding in the language and in German literature and cultural studies. GERST 2060 provides instruction for German in the culture of business, leading to certification. On the advanced level (3000 level or above), we offer thematically oriented courses that include intensive language work (3000–3200); literature and culture study courses in German, including the senior seminar; and seminars of interdisciplinary interest taught in English. Addressing a broad spectrum of topics in German culture, our courses appeal to German majors and other qualified students alike.

The department's offerings in English begin with a series of first-year writing seminars introducing various aspects of German literature (e.g., the fairy tale and Romantic consciousness or 20th-century writers such as Kafka, Hesse, Mann, Brecht), theorists such as Marx, Nietzsche, and Freud, issues in mass culture and modernity, problems of German national identity/ies, and cinema and society. Courses in German and English at the 3000 and 4000 levels explore such topics as the Faust legend, aesthetics from Kant to Heidegger, city topographies, Freud and his legacy, opera from Mozart to Strauss, the German novel, literature and philosophy, political theory and cinema, the Frankfurt School, migration and globalization, and feminist theory. It may be possible to arrange a German section for courses taught in English, either informally or formally (for credit). Students are encouraged to discuss this possibility with instructors.

**Sequence of Courses**

Courses in German:

Introductory level: GERST 1210–1220, after completion, placement into GERST 1230 or 2000

Intermediate level: GERST 2000, 2020, 2040, and 2060

Advanced level: GERST 3010, 3020, 3060, 3070, 3080, 3100, and 4100

Courses taught in German that are numbered 3000 through 3200 focus on intensive

language study; courses taught in German that are numbered 3210 through 3500 focus on studying literature and other forms of cultural expression.

Courses in German or English: further 3000- and 4000-level literature and culture courses (see course descriptions)

### Advanced Standing

Students with an AP score of 4 or better are automatically granted 3 credits in German. Students with an AP score of 4 or better, an LPG score of 65 or higher, or an SAT II score of 690 or higher must take the CASE exam for placement in courses above GERST 2000. Students coming to Cornell with advanced standing in German and/or another subject are encouraged to consider a double major and to discuss the options with the director of undergraduate studies as early as possible.

### Certificate in German Language Study

The Certificate in German Language Study is issued to recognize substantial language study beyond the GERST 2000 level in the Department of German Studies. Students are awarded the certificate after passing three German Studies courses held in German with a grade of B or above. Two of these courses must be at the 3000 level or above. No more than two of the three courses can be taken with the S-U option. Applications for the language certificate may be picked up in the Department of German Studies (183 Goldwin Smith Hall) in February.

### Internships

The department works with the USA-Interns program to provide summer internships to qualified students with German companies and agencies. Interested students should contact the language program director, Gunhild Lischke (gl15@cornell.edu, G75 Goldwin Smith Hall, 255-0725), early in the fall semester.

### Majors in German Studies

The department offers two options for the major: German literature and culture, and German area studies. The latter is a more broadly defined sequence that includes work in related disciplines. The course of study in either major is designed to give students proficiency in reading, speaking, and writing in German, to acquaint them with German culture, and to help them develop skills in reading, analyzing, and discussing German texts in relevant disciplines with those goals in mind. The department also encourages study abroad. For both majors, there is a wide variety of courses co-sponsored with other departments (Comparative Literature; Government; History; Music; Theatre, Film, and Dance; Feminist, Gender, and Sexuality Studies).

The department encourages double majors and makes every effort to accommodate prospective majors with a late start in German. Students interested in a major should consult the director of undergraduate studies, Gunhild Lischke, G75 Goldwin Smith Hall.

### Minor in German Studies

The undergraduate minor in German Studies is intended for students enrolled in any of the seven undergraduate colleges at Cornell who wish to gain a broad understanding of the

culture, literature, and society of German-speaking countries while they are refining their language competence. The minor is designed to provide for breadth while permitting flexibility to emphasize areas of interest in German studies.

To declare the minor, students must have attained competence in German at the GERST 2000 level. Students must complete a minimum of four courses at the 2000 level and above selected from the offerings of the German Studies Department. At least one of these courses must be taught in German at the 3000 level or higher. One of the four courses may be from another department as long as it has a substantial German component. No more than one course per semester taken as part of a study abroad program may be counted toward the minor. GERST 4510-4520 Independent Study may not be counted at all.

Interested students in the German Minor should consult with the department's Director of Undergraduate Studies, Gunhild Lischke, G75 Goldwin Smith Hall.

### German (Literature and Culture)

Students in this major select courses from the Department of German Studies and may use them to pursue individual interests in literature, film and visual culture, theater and performing arts, music, intellectual and political history, and gender studies, for example. Please consult with the director of undergraduate studies.

Admission: By the end of their sophomore year, prospective majors should have successfully completed GERST 2020, 2040, or 2060.

To complete the major, a student must:

1. Demonstrate competence in the German language by successful completion of two 3000-level courses with intensive language work (GERST 3000-3200) or the equivalent.
2. Complete six courses in the Department of German Studies at the 3000 level or above. One of these must be GERST 4100 Senior Seminar.
3. Select a faculty advisor from the department.

### German Area Studies

Students select courses from the Department of German Studies as well as courses with a substantial German component from other departments, such as Comparative Literature; Government; History; Music; Theatre, Film, and Dance; and Feminist, Gender, and Sexuality Studies.

Admission: By the end of their sophomore year, prospective majors should have successfully completed GERST 2020, 2040, or 2060.

To complete the major, a student must:

1. Demonstrate competence in the German language by successful completion of two 3000-level courses with intensive language work (GERST 3000-3200) or the equivalent.
2. Complete six courses with a substantial German component at the 3000 level or above. Three of these must be in the

Department of German Studies, including GERST 4100 Senior Seminar.

3. Select a committee of one or more faculty advisors to help formulate a coherent program of study. One of the advisors must be from the Department of German Studies.

### Honors

Honors in German Studies are awarded for excellence in the major, which includes overall grade point average and completion of the honors thesis. Students are awarded either honors (*cum laude*), high honors (*magna cum laude*), or the highest honors (*summa cum laude*) in the program based on the honors advisors' evaluation of the level and the quality of the work completed toward the honors degree. The honors distinction will be noted on the student's official transcript and will also be indicated on the student's diploma.

**Prerequisites for admission.** Students must have upperclass standing, an overall GPA of a B or higher, and a GPA of 3.5 or higher in the major. Students must first consult with the director of undergraduate studies in German Studies regarding eligibility for the honors program.

**Procedure.** Students who wish to be considered for honors ideally should apply to the director of undergraduate studies no later than the second term of the junior year. Students who are off campus in their junior year must apply by the third week of classes in the first semester of their senior year. Students should secure the consent of a faculty member to serve as the director of both the reading course (GERST 4530) and the writing of a thesis (GERST 4540). With the help of their thesis advisor, students choose an area of special interest and identify at least one other faculty member who is willing to serve on the honors committee. An oral thesis defense concludes the process.

### Study Abroad in a German-Speaking Country

The Department of German Studies strongly supports study abroad as an opportunity for students to live and study in the German cultural context. The experience of living abroad promotes enduring personal growth, provides new intellectual perspectives through cultural immersion, and opens up academic and professional opportunities.

Students interested in studying abroad are encouraged to consider the Berlin Consortium, of which Cornell is a member. The program is run in conjunction with the Free University of Berlin and is of very high caliber. Six weeks of an intensive language practicum held at the Berlin Consortium center are followed by one or two semesters of study at the university. Participants enroll in regular courses at the university. Assistance in finding internships between semesters may be available to students staying for an entire academic year. Four semesters of German language study are prerequisite for participating in the program; ideally the last of these courses should be at the 3000 level.

Students interested in this or other study abroad options in Germany, Austria, or Switzerland should consult the language program director, Gunhild Lischke (G75 Goldwin Smith Hall, 255-0725, gl15@cornell.edu).

## First-Year Writing Seminars

Consult the John S. Knight Institute brochure for course times, instructors, and descriptions.

## Courses Offered in German

### GERST 1210 Exploring German Contexts I

Fall or spring. 4 credits. Intended for students with no prior experience in German or language placement test (LPG) below 37, or SAT II below 370. G. Lischke, G. Matthias, and staff.

Students develop basic abilities in listening, reading, writing, and speaking German in meaningful contexts through interaction in small group activities. Course materials including videos, short articles, poems, and songs provide students with varied perspectives on German language, culture, and society.

### GERST 1220 Exploring German Contexts II

Fall or spring. 4 credits. Prerequisite: GERST 1210, LPG 37-44, or SAT II 370-450. G. Matthias, G. Lischke, and staff.

Students build on their basic knowledge of German by engaging in intense and more sustained interaction in the language. Students learn more advanced language structures allowing them to express more complex ideas in German. Discussions, videos, and group activities address topics of relevance to the contemporary German-speaking world.

### GERST 1230 Expanding the German Dossier

Fall or spring. 4 credits. *Successful completion of GERST 1210, 1220, and 1230 satisfies Option 2.* Prerequisite: study of German and LPG 45-55 or SAT II 460-580. Staff.

Students continue to develop their language skills by discussing a variety of cultural topics and themes in the German-speaking world. The focus of the course is on expanding vocabulary, reviewing major grammar topics, developing effective reading strategies, improving listening comprehension, and working on writing skills. Work in small groups increases each student's opportunity to speak in German and provides for greater feedback and individual help.

### GERST 2000 Germany: Intercultural Context (CA-AS)

Fall or spring. 3 credits. *Satisfies Option 1.* Prerequisite: GERST 1230 or LPG 56-64 or SAT II 590-680, or placement by exam. Staff.

Content-based language course on the intermediate level. Students examine important aspects of present-day German culture while expanding and strengthening their reading, writing, and speaking skills in German. Materials for each topic are selected from a variety of sources (fiction, newspapers, magazines, and the Internet). Units address a variety of topics including studying at a German university, modern literature, Germany online, and Germany at the turn of the century. Oral and written work and individual and group presentations emphasize accurate and idiomatic expression in German. Successful completion of the course enables students to continue with more advanced courses in language, literature, and culture.

### GERST 2020 Literary Texts and Contexts (LA-AS)

Spring. 3 credits. *Satisfies Option 1.* Prerequisite: GERST 2000 or equivalent or placement exam. Conducted in German. D. McBride.

Students in this intermediate course read and discuss a number of works belonging to different literary genres by major German-speaking authors such as Kafka, Walser, Brecht, Mann, Frisch, Dürrenmatt, Bachmann, and others. They explore questions of subjectivity and identity in modern society, of human existence as existence in language, and of the representation of history in literary texts. Activities and assignments focus on the development of reading competency in different literary genres, the improvement of writing skills including the accurate use of idiomatic expressions, the expansion of students' German vocabulary, and the systematic review of select topics in German grammar.

### GERST 2040 Working with Texts (CA-AS)

Fall or spring. 3 credits. *Satisfies Option 1.* Prerequisite: GERST 2000 or placement by exam (placement score and CASE). D. McBride and A. Schwarz.

Emphasis is on improving oral and written expression of idiomatic German. Enrichment of vocabulary and appropriate use of language in different conversational contexts and written genres. Material consists of readings in contemporary prose, articles on current events, videos, and group projects. Topics include awareness of culture, dependence of meaning on perspective, interviews with native German speakers, German news broadcasts, reading German newspapers on the Internet.

### GERST 2060 German in Business Culture (CA-AS)

Fall. 3 credits. *Satisfies Option 1.* Prerequisite: GERST 2000 or placement by examination placement score and CASE. Students without previous knowledge of business German are welcome. G. Lischke.

Students learn German and understand German business culture at the same time. This German language course examines the German economic structure and its major components: industry, trade unions, the banking system, and the government. Participants learn about the business culture in Germany and how to be effective in a work environment, Germany's role within the European Union, the role of the Bundesbank, the importance of trade and globalization, and current economic issues in Germany. The materials consist of authentic documents from the German business world, TV footage, and a business German textbook. At the end of the course, the external Goethe Institut exam "Deutsch für den Beruf" is offered.

### GERST 3010 Scenes of the Crime: German Mystery and Detective Fiction (LA-AS)

Fall. 4 credits. *Satisfies Option 1.* Prerequisite: GERST 2020, GERST 2040, GERST 2060, or equivalent or permission of instructor. Taught in German. This course may be counted toward the requirement for 3000-level language work in the major. B. Buettner.

An exploration of German crime, detective, and mystery writing in texts ranging from the early 19th century to contemporary fiction. Authors to be studied may include: Kleist, E. T. A. Hoffmann, Dürrenmatt, Schatten, Süskind, Handke, Ören, Arjouni, Ani, and Glauser. In addition to exercising hermeneutic

skills (and, by extension, that gray matter of which Sherlock Holmes and Hercule Poirot were so fond), this course aims at improving proficiency in aural and reading comprehension, as well as speaking and writing skills, with emphasis on vocabulary expansion, advanced grammar review, and stylistic development. Recommended to students interested in a combined introduction to literature and high-level language training.

### [GERST 3020 Youth Culture: Adolescence in German Fiction (LA-AS)]

Spring. 4 credits. *Satisfies Option 1.* Prerequisite: GERST 2020, 2040 or 2060 or equivalent or placement exam, permission of instructor. Taught in German. Next offered 2011-2012. B. Buettner.]

### GERST 3080 German Life Style 2.0 (CA-AS)

Spring. 4 credits. *Satisfies Option 1.* Prerequisite: GERST 2020, GERST 2040, GERST 2060, or equivalent or permission of instructor. Taught in German. This course may be counted toward the requirement for 3000-level language work in the major. G. Matthias.

In this course, we will encounter German culture of today in and through Web 2.0. No technical knowledge is required since, in the process, a solid base of knowledge concerning the use of media will be constructed. This knowledge will then be applied practically through discussing aspects of German culture visible in the WWW. The highlight of the course will be an intercultural encounter with a German Class from the University of Osnabrück using Web 2.0 applications. In the produced content, students will become part of the Web 2.0 in German through an intercultural discussion of German life visible in the World Wide Web (WWW).

### GERST 3210 After the Fires: Divided Germany 1945-1989 (CA-AS)

Fall. 4 credits. *Satisfies Option 1.* Taught in German. L. Adelson.

Introduction to the history and culture of postwar Germany, the development and unification of the two Germanys, and their societies. The emphasis is on cultural and social institutions as well as political and intellectual debates. Focal topics include responses to the Nazi past, Germany and Europe, protest movements, migration patterns, women, mass media, and popular culture. We will consider contemporary Germany in relationship to both its postwar past and a newly European future. Some films will also be shown.

### GERST 3220 German-Jewish Perspectives in the Early 20th Century (CA-AS)

Spring. 4 credits. *Satisfies Option 1.* Prerequisites: any German course at 3000-3200 level or by placement exam. Taught in German. A. Glazova.

The term "modernism" is usually associated with projects of renewal, which "re-write" the world within their own, newly founded language. The early 20th century, when European modernism was in bloom, was also a time of this renewal in the sphere of German-Jewish culture. Specifically Jewish themes such as Hassidic tales or kabbalistic knowledge become for the first time a part of the German literary tradition. While Martin Buber and Franz Rosenzweig's new translation of the Bible is symptomatic, their theological writings and efforts in re-defining Jewish learning are paradigmatic for this renewal.

Simultaneously with Buber and Rosenzweig, Franz Kafka who, as Walter Benjamin once said, did not establish a new religion, began the work of this renewal in his prose. We will begin this class by reading Buber's and Rosenzweig's essays on Judaism and then turn our attention to Kafka's narratives. Finally, we will proceed to Walter Benjamin and Gershom Scholem, in whose works the Jewish thought finds a new strength in face of the imminent catastrophe.

**[GERST 3250 The Age of Goethe # (LA-AS)]**

Next offered 2011–2012. A. Groos.]

**[GERST 3270 Too Much to See: German Literary and Visual Cultures, 1900–1933 (CA-AS)]**

Next offered 2011–2012. P. McBride.]

**GERST 4100 Senior Seminar: What Is Poetry? (CA-AS)**

Fall. 4 credits. *Satisfies Option 1.*

Prerequisites: adequate command of German; any 3000-level course taught in German, or equivalent, or permission of instructor. Readings and discussions in German. P. Gilgen.

The question posed in the title of this course is indeed its guiding thread: What is poetry? What makes a series of words into a poetic utterance? What does it mean to speak poetically? The attempt to answer these questions will proceed on two levels: On the one hand, we will read in depth a series of poems written in German from the Middle Ages to the present (with a strong emphasis on contemporary texts). On the other hand, we will also focus on poetics and models of intertextuality and self-reference. To this purpose, we will read a number of theoretical texts that deal with questions of poetics and poetic language. Authors may include: Giorgio Agamben, Ingeborg Bachmann, Roland Barthes, Paul Celan, Jonathan Culler, Jacques Derrida, Oswald Egger, Hans-Jost Frey, Hugo Friedrich, Martin Heidegger, Friedrich Hölderlin, Roman Jakobson, Leo Spitzer, Emil Staiger, Paul Valéry, Peter Waterhouse, Ludwig Wittgenstein et al.

**[GERST 4110 Literature of the Fantastic (LA-AS)]**

Next offered 2011–2012. P. McBride.]

**[GERST 4180 New German Literature: After the Wall (LA-AS)]**

Spring. 4 credits. *Satisfies Option 1.*

Prerequisite: Any 3000-level course taught in German, or equivalent, or permission of instructor. Required readings and discussion in German. Next offered 2011–2012. L. Adelson.]

**[GERST 4190 Vienna 1900 and the Challenge of Modernity]**

Spring. 4 credits. *Satisfies Option 1.* Next offered 2010–2011. Taught in German. P. McBride.]

**[GERST 4420 Changing Worlds: Migration, Minorities, and German Literature (LA-AS)]**

4 credits. *Satisfies Option 1.* Next offered 2010–2011. L. Adelson.]

**[GERST 4430 Love as Fiction. German Novellas from Three Centuries]**

Spring. 4 credits. *Satisfies Option 1.* Conducted in German. Prerequisite: any course at 3000 level taught in German or equivalent or permission of instructor. Readings and discussions in German. Next offered 2010–2011. A. Schwarz.]

**Courses conducted in English**

**GERST 3530 19th- and 20th-Century European Thought (also PHIL 2240) (KCM-AS)**

Spring. 4 credits.

For description, see PHIL 2240.

**GERST 3550 Political Theory and Cinema (also COML 3300, FILM 3290, GOVT 3705) (CA-AS)**

Spring. 4 credits. G. Waite.

An introduction (without prerequisites) to fundamental problems of current political theory, filmmaking, and film analysis, along with their interrelationship. Particular emphasis on comparing and contrasting European and alternative cinema with Hollywood in terms of post-Marxist, psychoanalytic, postmodernist, and postcolonial types of interpretation. Filmmakers/theorists might include: David Cronenberg, Michael Curtiz, Kathryn Bigelow, Gilles Deleuze, Rainer Fassbinder, John Ford, Jean-Luc Godard, Marleen Gorris, Werner Herzog, Alfred Hitchcock, Allen and Albert Hughes, Stanley Kubrick, Fredric Jameson, Chris Marker, Pier-Paolo Pasolini, Gillo Pontecorvo, Robert Ray, Martin Scorsese, Ridley Scott, Oliver Stone, George Romero, Steven Shaviro, Kidlat Tahimik, Maurizio Viano, Slavoj Zizek. Although this is a lecture course, there will be ample time for class discussions.

**[GERST 3560 Metropolis: Urban Sites in Literature]**

Next offered 2010–2011. A. Schwarz.]

**GERST 3600 (formerly GERST 342) Words and Music (also MUSIC 3245) # (LA-AS)**

Spring. 4 credits. Prerequisite: some ability to read music. Taught in English, with reading options in English or German.

Students with no experience in reading music (playing an instrument) are encouraged to enroll concurrently in the 1-credit course MUSIC 1100. A section in German will be available for 1 extra credit (GERST 3601).

This course surveys the evolution of texts set to music in German-speaking culture of the 18th and 19th centuries. A brief presentation of Luther and the Protestant hymn will introduce sessions on texted Baroque music, especially cantatas and oratorios by Bach. After tracing the emergence of a secular culture of sensibility in Mozart's *Abduction from the Seraglio* and late 18th-century songs, readings and listening will explore Classicism and Romanticism, focusing on songs and song cycles by Beethoven, Schubert, Schumann, and Brahms. A final segment will investigate the role of words and music in constructing a German national identity, especially folk songs and Wagner's use of the past in operas such as *Tannhäuser* or *Die Meistersinger*.

**[GERST 3740 Opera and Culture (also MUSIC 3222) # (LA-AS)]**

Next offered 2011–2012. A. Groos.]

**GERST 3770 The Art of the Historical Avant-Garde (also ARTH/VISST 3672, COML 3840, ROMS 3770) (LA-AS)**

Spring. 4 credits. Prerequisite: any GERST 3000–3200-level course or equivalent. P. McBride.

At the height of modernism (1910–1930), avant-garde artists and intellectuals began arguing that art could be employed to “reconstruct the universe,” as one Futurist manifesto put it. They joined forces with the

most radical political movements of their day and created innovative artistic practices ranging from collage, montage, and the found object to the installation and the happening that continue to shape our perception of art and popular culture. This course will focus on strategies for politicizing art as well as formulating a new relation between high and popular culture in Germany, Italy, and France in the first half of the 20th century. Our investigation of avant-garde art will include original documents of Italian Futurism, Expressionism, Dada, and Surrealism.

**Advanced Undergraduate and Graduate Courses**

**GERST 4050 Introduction to Medieval German Literature I # (LA-AS)**

Fall. 4 credits. Prerequisite: reading knowledge of German. A. Groos.

After a brief introduction to basic aspects of the medieval universe, ranging from cosmology to psychology, reading will focus on introductory texts of late 12th-century courtly culture. Using the predominant genres of aristocratic self-representation, the heroic epic (*Nibelungenlied*), Arthurian romance (Hartmann's *Iwein*), and Minnesang, discussions will investigate the court as the locus of conflicting forces in the rise of the secular culture in Germany, examining such issues as the first vernacular construction of social and sexual identity, generational conflicts within the communal-dynastic order, the rise of individualism (the knightly quest), and subjectivity (the love lyric).

**GERST 4060 Introduction to Medieval German Literature II # (LA-AS)**

Spring. 4 credits. Prerequisite: GERST 4050 or equivalent or permission of instructor. Anchor course for the medieval period. A. Groos.

Political lyrics by Walther von der Vogelweide will introduce agendas of conflict in 13th-century German culture, ranging from crusades to civil war. Against this background, we will examine the utopian quest to win the Holy Grail and heal the Fisher King in Wolfram's *Parzival*, using Bakhtin's approach to pre-novelistic discourse. Readings from the love lyric trace representation of gender across emerging class differences, the increasing complexity of self, and instabilities of the performance text. Concluding topics may include women mystics and late medieval narratives of socio-sexual violence, anti-Semitism, and urban Angst.

**GERST 4070 Teaching German as a Foreign Language**

Fall. 4 credits. Intended for graduate students preparing to teach German. G. Lischke.

Designed to familiarize students with current ways of thinking in the field of applied linguistics and language pedagogy. Introduces different concepts of foreign language methodology as well as presents and discusses various techniques as they can be implemented in the foreign language classroom. Special consideration is given to topics such as planning syllabi, writing classroom tests, and evaluating students' performance. Participants conduct an action research project.

**[GERST 4090 Spinoza and the New Spinozism (also COML 4090, GOVT 4769, JWST 4790) (LA-AS)]**

Next offered 2011–2012. G. Waite.]

**GERST 4150 Marx, Freud, Nietzsche (also COML 4250, GOVT 4735) # (CA-AS)**

Fall. 4 credits. Prerequisite: none. G. Waite. This is an introduction to the three "master thinkers" who have helped determine the discourses of modernity and post-modernity. We consider basic aspects of their work: (a) specific critical and historical analyses; (b) theoretical and methodological writings; (c) programs and manifestos; and (d) styles of argumentation, documentation, and persuasion. This also entails an introduction, for non-specialists, to essential problems of political economy, continental philosophy, psychology, and literary and cultural criticism. Second, we compare the underlying assumptions and the interpretive yields of the various disciplines and practices founded by Marx, Nietzsche, and Freud: historical materialism and communism, existentialism and power-knowledge analysis, and psychoanalysis, respectively. We also consider how these three writers have been fused into a single constellation, "Marx-Nietzsche-Freud", and how they have been interpreted by others, including L. Althusser, A. Badiou, A. Camus, H. Cixous, G. Deleuze, J. Derrida, M. Foucault, H.-G. Gadamer, M. Heidegger, L. Irigaray, K. Karatani, J. Lacan, P. Ricoeur, L. Strauss, S. Zizek. This is a lecture course but there will be plenty of time for discussion.

**[GERST 4200 Faust: Close Reading (LA-AS)**

Fall. 4 credits. Conducted in English. Next offered 2010-2011. G. Waite.]

**[GERST 4240 The Totalitarian Order: Vision and Critique (also GOVT 4255) (CA-AS)**

Fall. 4 credits. Next offered 2010-2011. P. U. Hohendahl.]

**[GERST 4260 The Animal (also COML 4240, ENGL 4260) (CA-AS)**

Next offered 2011-2012. P. Gilgen.]

**[GERST 4270 Freud and His Commentators (also HIST 4280) (HA-AS)**

Next offered 2011-2012. C. Robcis.]

**[GERST 4280 Genius and Madness in German Literature (LA-AS)**

Next offered 2010-2011. Offered as GERST 2250 in summer 2009 to introduce students to German literature in a course surveying several centuries. Summer course will not count toward the German major requirements. A. Schwarz.]

**GERST 4310 Theory of Theatre and Drama (also THETR 4310/6310) # (LA-AS)**

Fall. 4 credits. H. Yan. For description, see THETR 4310/6310.

**[GERST 4330 History of Modern Jewry (also HIST 4330) (HA-AS)**

Fall. 4 credits. Limited to 15 students. Next offered 2011-2012. V. Caron.]

**[GERST 4410 Introduction to Germanic Linguistics (also LING 4441) (HA-AS)**

Next offered 2011-2012.]

**GERST 4510-4520 Independent Study**

4510, fall; 4520, spring. 1-4 credits each semester. Prerequisite: permission of instructor.

**GERST 4530 Honors Research**

Fall. Staff.

**GERST 4540 Honors Thesis**

Spring. 8 credits. Prerequisite: GERST 4530. Staff.

**GERST 4570 Imagining the Holocaust (also COML 4830, ENGL/JWST 4580) (LA-AS)**

Spring. 4 credits. D. Schwartz. For description, see ENGL 4580.

**[GERST 4960 Theorizing the Public Sphere**

Next offered 2010-2011. P. U. Hohendahl.]

**Graduate Courses**

**Note:** For complete descriptions of courses numbered 6000 or above consult the appropriate instructor.

**[GERST 6030 Literature of Fascism and Antifascism**

Fall. 4 credits. Next offered 2011-2012. P. McBride.]

**GERST 6131 German Philosophical Texts (also PHIL 6030)**

Fall and spring. 1-4 credits, variable. M. Kosch.

For description, see PHIL 6030.

**[GERST 6140 The Man without Qualities and Theories of Narration (also COML 6141)**

Spring. 4 credits. Next offered 2011-2012. P. McBride.]

**GERST 6150 Jews in German Culture Since 1945**

Spring. Required readings in German. Class discussion in English. L. Adelson.

Amidst widespread discussion of Holocaust memory as a "globalized" phenomenon, which becomes increasingly untethered from the historical referent, this seminar explores literature written in German since 1945, largely by Jewish authors, on the subject of Jewish life and German history. For these writers and their texts, the historical encounter with National Socialism remains pivotal to a broad range of aesthetic strategies for representing the complexity of Jewish life in West, East, and unified Germany. Readings include works by authors such as Elisabeth Langgasser, Nelly Sachs, Paul Celan, Hans Keilson, Peter Weiss, Edgar Hilsenrath, Grete Weil, Jeannette Lander, Esther Dischereit, Irene Dische, Rafael Seligmann, Maxim Biller, Barbara Honigmann, and others. This material will be considered against the larger background of postwar German attempts to represent both Jewish identity and the Holocaust. To this end the course will consider pivotal crises of representation such as those reflected in the Fassbinder scandal, the "Historians' Debate," the competition for a "German national monument to the murdered Jews of Europe," Daniel Goldhagen's reception in Germany, and recent debates about anti-Semitism. Additionally, we will consider how these literary works and cultural contexts are relevant to international cultural studies in memory, diaspora, "hybridity," and the aesthetics of representation.

**[GERST 6160 Spaces of Literature**

Next offered 2010-2011. A. Schwarz.]

**[GERST 6180 The Science of the Experience of Consciousness: Hegel's Phenomenology of Spirit (and Beyond) (also COML 6180)**

Next offered 2010-2011. P. Gilgen.]

**GERST 6190 Introduction to Systems Theory (also COML 6185)**

Fall. 4 credits. P. Gilgen.

Niklas Luhmann's systems theory is one of the great theoretical edifices of the last few decades. Ostensibly a sociological theory, Luhmann's work arguably has had its most disruptive, and most enduring, influence in the humanities. On the basis of his Introduction to Systems Theory, this course will provide a thorough examination of Luhmann's theoretical edifice and its theoretical building blocks, such as Talcott Parsons's systems theory, Heinz von Foerster's second-order cybernetics, George Spencer Brown's "calculus of decision," Gregory Bateson's theory of information, and Humberto Maturana's concept of autopoiesis. In addition, we will follow the development of Luhmann's own theory and analyze closely several of Luhmann's other texts, such as *Observations of Modernity*, *Ecological Communication*, *Love as Passion*, and *The Reality of the Mass Media*. (All readings will be available in English).

**[GERST 6200 Faust: Close Reading (also GERST 4200)**

Fall. 4 credits. Limited to 15 students. Next offered 2010-2011. G. Waite.]

**[GERST 6220 Cultural Pessimism and the Fin-de-Siècle**

Next offered 2010-2011. P. McBride.]

**[GERST 6270 Baroque**

Fall. 4 credits. Anchor course. Conducted in English. Next offered 2010-2011. G. Waite.]

**[GERST 6290 The Enlightenment**

Spring. 4 credits. Anchor course. Next offered 2011-2012. P. U. Hohendahl.]

**GERST 6310-6320 Reading Academic German I and II**

6310, fall; 6320, spring. 3 credits each semester. Prerequisites: graduate standing; for GERST 6320, GERST 6310 or equivalent. Staff.

Intended primarily for beginners with little or no previous German knowledge. Emphasis in 6310 on acquiring basic German reading skills. Emphasis in 6320 on development of the specialized vocabulary of student's field of study.

**GERST 6340 German Romanticism**

Spring. 4 credits. G. Waite.

Most readings in German (though some translations exist); discussion and papers in English. This is a German Department anchor course, but students from other disciplines are welcome. This graduate seminar introduces major topics and texts in literature, art, criticism, political thought, and philosophy from ca. 1789 to 1830 in two basic contexts: Europe between two revolutions-in the aftermath of Enlightenment-and in subsequent critical theory. This legacy includes Marxists and philologists (on "the flight from reality" and "the German ideology"), Freud (on "the uncanny" in Hoffmann), Balibar (on "the internal border" in Fichte), Heidegger (on "the other beginning" in H\_rlin and "the essence of human freedom" in Schelling), Adorno (on "parataxis" in H\_rlin), De Man (on "the rhetoric of romanticism"), Lacoue-Labarthe and Nancy (on "the literary absolute," following W. Benjamin), "the absorption of the subject" (applying M. Fried to the paintings of Caspar David Friedrich), and Deleuze & Guattari (on "the war machine" in Kleist). Of

particular interest is “the crisis of reproduction” (Althusser), involving both sexuality and social class, which entails the theme of “incest” in several forms. The primary focus will be on the close reading of texts.

**[GERST 6370 19th-Century Fiction: The Realist Project]**

Spring. 4 credits. Anchor course. Next offered 2010–2011. A. Schwarz.]

**[GERST 6380 Readings of Recollection (also COML 6010)]**

Fall. 4 credits. Next offered 2010–2011. P. Gilgen.]

**[GERST 6390 Walter Benjamin: Constellations of Thought]**

Spring. 4 credits. Texts in English and German. Discussions in English. Next offered 2011–2012. A. Schwarz.]

**GERST 6420 Operatic States: Imagining Community in Music-drama (also MUSIC 7223)**

Fall. 4 credits. A. Groos.  
For description, See MUSIC 7223.

**[GERST 6470 German Literature from 1949 to 1989]**

Next offered 2011–2012. L. Adelson.]

**GERST 6480 Critical Theory and Literature: Lukács, Benjamin, Adorno**

Spring. 4 credits. P. U. Hohendahl.  
In recent years the literary criticism of Lukács, Benjamin, and Adorno has received renewed attention, but in many instances this interest has remained abstract and without regard for the literary works that were the basis for their theoretical reflections. Instead, the seminar will focus on their contributions to literary criticism and literary theory in the context of modern literary history. The seminar will examine the aesthetic and methodological questions raised in Critical Theory by looking equally at the literary works and the interpretations offered by the Lukács, Benjamin, and Adorno. Special attention will be given to the period of German Classicism and European Modernism. Among the literary authors to be examined will be Goethe, George, Kafka, Brecht, Proust, and Beckett.

**GERST 6500 The Culture of Weimar Germany**

Fall. 4 credits. P. McBride.  
This survey course is an introduction to the major developments in the culture of Weimar Germany. Individual works will be drawn primarily from literature and the visual arts and will be studied in relation to relevant cultural, political, and social contexts. Lectures and discussions will focus both on detailed interpretation of individual texts as well as on the general historical background and developments of the period.

**[GERST 6530 Opera]**

Next offered 2011–2012. A. Groos.]

**[GERST 6560 Aesthetic Theory: The End of Art (also COML 6560)]**

Spring. 4 credits. Next offered 2010–2011. P. Gilgen.]

**[GERST 6580 Old High German, Old Saxon (also LING 6646)]**

Spring. 4 credits. Next offered 2010–2011. W. Harbert.]

**[GERST 6600 Visual Ideology]**

Fall. 4 credits. Next offered 2010–2011. G. Waite.]

**[GERST 6620 Reassembling Culture: Montage and Collage in Weimar Germany]**

Spring. 4 credits. Next offered 2011–2012. P. McBride.]

**[GERST 6630 Nietzsche and Heidegger]**

Fall. 4 credits. Next offered 2010–2011. G. Waite.]

**GERST 6650 Heidegger's Literature (also COML 6235)**

Fall. 4 credits. A. Schwarz.  
Compared to other philosophers Heidegger very rarely mentions literary authors in his works. When he does, however, attention needs to be paid to the reasons for his specific choices. Of course, Heidegger also devotes entire essays to particular authors and literary works, but those are also singular and beg the question why certain authors and works enter Heidegger's thought and others not. In this seminar we shall analyze the relationship between Heidegger's philosophical project and his examinations of literary works. Guiding questions for the seminar will be: What is the status of a literary or poetic text in Heidegger's conceptualizations of language? Do literary texts serve as mere examples for philosophy or do they write their own philosophies? What is the status of “named” works of art in Heidegger's thought? We shall also discuss Heidegger's relationship to pre-Romantic and Romantic philosophies of language (Herder, Hamann, Humboldt, Schelling). Other authors under study will include: Goethe, Schiller, Stifter, Rilke, Trakl, Nietzsche, George, Sophocles, Hoelderlin et al. Secondary texts will be compiled in a reader. Primary texts will be available in both German and English. Seminar will be held in English.

**[GERST 6680 Literature and the Uncanny]**

Next offered 2011–2012. A. Schwarz.]

**[GERST 6710 Postcolonial Theory and German Studies]**

Next offered 2011–2012. L. Adelson.]

**GERST 6860 Althusser and Lacan (also COML 6860, GOVT 6795, FREN 6230)**

Fall. 4 credits. Reading knowledge of French not required. G. Waite.  
This seminar takes up the old “dialogue” or “confrontation” between Marxism and psychoanalysis as it continues in our “postmodern” or “post-communist” era, based on close readings of selected works by Louis Althusser and by Jacques Lacan. Specific topics include: the significance of their personal relationship; the role of “anti-philosophical” Lacanian concepts in Althusser's philosophy or “aleatory materialism”; writers of common interest (from Spinoza to Freud); the homology between the “return to Marx” and the “return to Freud”; their modes of interpretation and argumentation; the technique of “symptomatic reading”; differing concepts of “structure,” “overdetermination,” and “contradiction”; the question whether “ideology is (the) unconscious”; and their critiques of Marxism, Stalinism, and capitalism. Other writers include: Badiou, Balibar, Butler, Copjec, Freud, Gramsci, Machiavelli, Marx, Mao, Negri, Spinoza, Zizek.

**[GERST 6890 The Aesthetic Theory of Adorno]**

Fall. 4 credits. Next offered 2011–2012. P. U. Hohendahl.]

**[GERST 6960 Rites of Contact: Emergent German Literatures and Critical Method]**

Spring. 4 credits. Next offered 2011–2012. L. Adelson.]

**GERST 7530–7540 Tutorial in German Literature**

7530, fall; 7540, spring. 1–4 credits each semester. Prerequisite: permission of instructor.

**Dutch**

**DUTCH 1210–1220 Elementary/Continuing Dutch**

1210 (elementary), fall; 1220 (continuing), spring. 4 credits each semester. Prerequisite: permission of instructor. C. Hosea.

Intensive practice in listening, speaking, reading, and writing basic Dutch in meaningful contexts. The course also offers insight into Dutch language, culture, and society.

**DUTCH 2030 Intermediate Dutch**

Fall. 3 credits. *Satisfies Option 1.* Prerequisite: DUTCH 1220 or permission of instructor. Offered in Dutch. C. Hosea.

Improved control of Dutch grammatical structures and vocabulary through guided conversation, discussions, compositions, reading, and film, drawing on all Dutch-speaking cultures.

**DUTCH 3000 Directed Studies**

Spring. 1–4 credits, variable. Prerequisite: permission of instructor. Conducted in Dutch. C. Hosea.

Individualized advanced Dutch studies. Provides students with individualized programs which can be anything from advanced mastery in any or all skills to the mastery of Dutch for research, literature, and history in support of all disciplines.

**Swedish**

**SWED 1210 Elementary Swedish**

Fall. 4 credits. C. Alm.  
Participants gain fundamental Swedish language proficiency and functional communication skills, as well as cultural insights into Sweden and its Nordic context. Oral and written expression and skills in listening and reading are developed in an interactive immersion classroom, enriched by a textbook, additive multimedia and textual materials, as well as practical activities using web tools. Brief podcasts introduce issues of current interest, and participants explore Swedish or Scandinavian language, culture, and society in guided portfolios. Intended for students without prior experience in Swedish.

**SWED 1220 Continuing Swedish**

Spring 4 credits. Prerequisite: SWED 1210 or equivalent Swedish language background. C. Alm.

Participants expand their proficiency in speaking, listening to, reading, and writing Swedish by working with online resources, texts, media, and cinema. The first part of the course is dedicated to topics such as leisure activities, education, government, community, seasonal festivities, and traditions. During the second half of the course, participants read and converse about level-appropriate fiction and engage with complementary materials. Particular attention is paid to functional oral and written communication, enrichment of language structures, and vocabulary (including

developing an understanding of connotative meaning dimensions), and mastering authentic Swedish materials at the adequate proficiency level. The course continues to explore the culture and societal conditions of Swedish-speaking settings, while discovering the Swedish-American experience. All instruction is in Swedish.

### SWED 2030 Intermediate Swedish

Fall. 3 credits. *Satisfies Option 1.*

Prerequisite: SWED 1220 or equivalent Swedish language background. C. Alm. By studying the Swedish language alongside cultural and societal content, participants further enhance their skills of the forms and functions of Swedish at the intermediate level, while enriching stylistic and expressive variation in their use of Swedish and strengthening their understanding of Sweden and its Nordic context. Topics of exploration and discussion may include Norse mythology, the Swedish popular music industry, history of the Scandinavian languages, corporate practices in Swedish-speaking contexts, contemporary diversification of Sweden, and Swedish design. An interactive classroom that fully immerses participants in the Swedish language is combined with reading a novel, media, film, music, selections from factual and literary texts (including Norwegian and Danish samples in original version), web activities, and virtual fieldwork. Participants are given opportunities to develop specialized interests in language and culture creatively in an online collaborative writing project and in guided portfolios.

### SWED 2050 Vikings, Sex, and IKEA—Scandinavian Society and Culture (CA-AS)

Spring. 3 credits. C. Alm.

In this course, which is taught entirely in English, students develop an insider perspective on the Scandinavian region of Northern Europe. Departing from core sociocultural themes such as sexuality, migration, creative expression and art, environment, as well as science/technology and entrepreneurship etc., we will dig deeply, cross-temporally, and analytically into myths and realities shaping the historical legacy and current character of Scandinavia. Participants are expected to engage in interactive critical discussions on a variety of specific sociocultural topics. For instance, we will contrast the discoveries, mythology, and diasporas of the Viking Age with 21st-century pop-culture appropriation of the Viking image. As another example, we will examine Scandinavia's progressive stance to sexuality, body, and gender within the ongoing flux of the Nordic welfare state model. As a third illustration, we will explore cartoon controversies, and contrast intra-Scandinavian approaches to multicultural diversity. A part of the course will be dedicated to detailed case studies, for example how IKEA and NOKIA became international superbrands; the conflictive juxtaposition of Nobel's invention of the dynamite and his Nobel Prize; Scandinavian perspectives on banking crises; and how Sweden intends to end its dependency on oil by 2020 while Iceland is harnessing its volcanic power. All materials for course discussion are in English, available online, and include for example visual and aural media, artistic and cinematic representations, Web 2.0 resources, written case studies, literary and academic texts, as well as hot-off-the-press news items.

### SWED 3000 Directed Studies

Fall. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. C. Alm.

Directed study of Swedish (or Scandinavian) topics that address particular student needs in relation to their field of studies. Topics might include, but are not limited to, extending Swedish language skills, studying translation or linguistic aspects of the Swedish speech community, cinematic/literary themes or directors/authors, historical developments, or particular technological, entrepreneurial, or social issues. Interested students are encouraged to contact the instructor to determine a directed plan of study.

## GOVERNMENT

M. Evangelista, chair; R. Bensel, assoc. chair; C. Way, director of graduate studies; I. Kramnick, director of undergraduate studies; C. Anderson, S. Buck-Morss, V. Bunce, A. Carlson, P. Enns, J. Frank, R. Herring, M. Jones-Correa, M. Katzenstein, P. Katzenstein, J. Kirshner, S. Kreps, T. J. Lowi, S. Martin, A. Mertha, S. Mettler, K. Morrison, Y. Orlov, D. Patel, T. Pepinsky, K. Roberts, D. Rubenstein, E. Sanders, M. Shefter, A. M. Smith, S. G. Tarrow, N. T. Uphoff, N. van de Walle, J. Weeks, T. Zittel.

Web site: [falcon.arts.cornell.edu/Govt](http://falcon.arts.cornell.edu/Govt)

"Government" is what Cornell calls a department that elsewhere might be termed political science. The focus of this discipline is power applied to public purposes. Some faculty concentrate on purposes, some on applications. Some engage in the close reading of great texts of political philosophy, while others analyze the behavior of power-wielders and publics in this and other societies. Government is divided into four subfields: U.S. politics, comparative politics (other nations), political theory (philosophy), and international relations (transactions between nations).

### The Major

**To be admitted to the major**, a student must pass two Cornell government courses.

**To complete the major**, a student must:

1. pass two of the introductory government courses (GOVT 1111, 1313, 1615, 1817);
2. pass an additional course in one of the remaining subfields (American government, comparative government, political theory, or international relations). This course may be any course offered in the government department, including introductory courses, upper-level courses or seminars but must be a minimum of 3 credits. Students are strongly advised to take at least one course in each of the four subfields;
3. accumulate an additional 28 credits of government course work at the 3000 level or above;
4. complete at least one seminar-style course in government that may be applied toward the 28 credits. These courses include those numbered 4000.XX to which students are admitted by application only; or other 4000-level GOVT courses in which no more than 15 students are enrolled.

5. accumulate 11 credits in upper-level courses in related fields (e.g., anthropology, economics, history, science and technology studies, psychology, and sociology). Upper-level courses are usually courses numbered at the 3000 level or above (2000-level courses are not considered upper-level). Students should consult with their major advisor to choose appropriate courses. All choices of related courses must be approved by the major advisor or the director of undergraduate studies;
6. all courses used to fulfill a government major must be passed with a letter grade. No S-U grades accepted.

To summarize, a total of 10 government courses and three additional courses (11 credits) of upper-level related courses are required to complete the major. For more information about the government major, **please visit our web site: [falcon.arts.cornell.edu/Govt](http://falcon.arts.cornell.edu/Govt).**

### Cornell in Washington Program.

Government majors may apply to the Cornell in Washington program to take courses and undertake a closely supervised externship during a fall or spring semester.

**European Studies Minor.** Government majors may elect to group some of their required and optional courses in the area of European studies, drawing from a wide variety of courses in relevant departments. Students are invited to consult Professors P. Katzenstein and S. G. Tarrow for advice on course selection and foreign study programs.

### Model European Community Simulation.

Undergraduates with an interest in the European Union, public affairs, or debating may participate in an annual European Union simulation held, on an alternating basis, in April at SUNY Brockport or in January in Brussels. The simulation provides an opportunity for participants, representing politicians from the members states, to discuss issues and resolutions of current concern to the European Union.

To prepare for the simulation, a 2-credit course is offered by the Department of Government each year (GOVT 4313 or 4323). Participation in the simulation is open only to those who register for this course. Anyone interested in participating or finding out more information should contact the Institute for European Studies at 120 Uris Hall, 255-7592.

**International Relations Minor.** See the description under "Special Programs and Interdisciplinary Studies."

**Honors.** Application to the honors program is made in the early spring of the second semester of a student's junior year. For more information about the honors program and an application form, **please visit [falcon.arts.cornell.edu/Govt](http://falcon.arts.cornell.edu/Govt).**

**First-Year Writing Seminars.** Consult the John S. Knight Institute brochure for times, instructors, and descriptions.

**Major Seminars.** Fall or spring. 4 credits. These seminars, emphasizing important controversies in the discipline, cap the majors' experience. Thus preference in admission is given to majors over nonmajors and seniors over juniors. Topics and instructors change each semester. For more information, please visit "Guide to the Undergraduate Major in Government" on [falcon.arts.cornell.edu/GOV/ugrad\\_brochure.html#seminars](http://falcon.arts.cornell.edu/GOV/ugrad_brochure.html#seminars).

**Course Subfields.** Courses in the Department of Government are broken down into four subfields: American government, political theory, international relations, and comparative government. To determine in which category (or subfield) the following courses fall, please note the two-letter reference at the end of the descriptions. The key is as follows: AM = American, PT = theory, IR = international relations, and CO = comparative.

**GOVT 1111 Introduction to American Government and Politics (SBA-AS)**

Fall and summer. 3 credits. T. Lowi. Introduction to government through the American experience. Concentrates on analysis of the institutions of government and politics as mechanisms of social control. (AM)

**GOVT 1313 Introduction to Comparative Government and Politics (SBA-AS)**

Spring and summer. 3 credits. K. Roberts. Provides a survey of the institutions, political processes, and policies of contemporary states. Focuses on the conditions for and workings of democracy. Looking at Western Europe, students analyze institutional variations among liberal democracies, and their political implications. Then they probe the origins of democracy in Western societies and the reasons why communism and other forms of authoritarian rule have prevailed elsewhere. Finally, they explore the impetus behind and the obstacles to democratization in the Third World and the erstwhile Communist Bloc. Throughout this survey, problems of democracy are related to problems of economic development, efficiency, and equality. (CO)

**GOVT 1615 Introduction to Political Philosophy # (HA-AS)**

Spring, winter, and summer. 3 credits. I. Kramnick. Survey of the development of Western political theory from Plato to the present. Readings from the works of the major theorists. Examination of the relevance of their ideas to contemporary politics. (PT)

**GOVT 1817 Introduction to International Relations (SBA-AS)**

Fall and summer. 3 credits. J. Kirshner. Introduction to the basic concepts and practice of international politics. (IR)

**GOVT 1827 WIM Section: Introduction to International Relations**

Fall. 1 credit. Prerequisite: permission of instructor; GOVT 1817. Staff. Special, writing-intensive section of GOVT 1817, designed to provide a small number of students the opportunity to practice and improve their writing skills as they learn about world politics. Students complete a series of papers and are expected to take an active part in class discussion. (IR)

**[GOVT 2225 Controversies About Equality (also DSOC/ILROB/PAM/SOC 2220, PHIL 1905) (SBA-AS)**

Spring. 4 credits. Next offered 2010–2011. S. Morgan. For description, see SOC 2220.]

**GOVT 2403 China Under Revolution and Reform (also CAPS 2403) @ (SBA-AS)**

Fall. 3 credits. A. Mertha. This course provides a broad overview of the evolution of Chinese politics from the early part of the 20th century to the present. It is roughly divided into three sections. The first traces the formation and the progression of

modern state and party institutions following the collapse of the Qing Dynasty in 1911, through the communist rise to power and into the Mao era (1949–1976), culminating in the period of “opening up and reform” (1978–present). The second part of the course examines China’s institutional apparatus, focusing on mapping out the government, Party, and military bureaucracies; examining relations between Beijing and the localities; and on the institutionalization of these structures and processes over time. The third part of the course combines the insights of the course thus far to illuminate some of the current “hot button” issues facing the Chinese state and the world, combining politics and policy and examining the relationships between the two. No prior knowledge of China is required or expected.

**GOVT 2605 Social and Political Philosophy (also PHIL 2420) (KCM-AS)**

Spring. 4 credits. E. Taylor. For description, see PHIL 2420.

**[GOVT 2626 French Thought After May '68 (also COML/HIST 2331) (HA-AS)**

Spring. 4 credits. Next offered 2010–2011. C. Robcis.]

**[GOVT 2716 Politics of Violence in 20th-Century Europe (also HIST 2711) (HA-AS)**

Spring. 4 credits. Next offered 2010–2011. H. Case.]

**GOVT 2729 Origins of the Social (HIST 2330) (HA-AS)**

Spring. 4 credits. C. Robcis. For description, see HIST 2330.

**GOVT 2747 History of Modern Middle East in 19–20th Century (also HIST/JWST/NES 2674) # @ (HA-AS)**

Fall. 3 credits. Z. Fahmy. For description, see NES 2674.

**GOVT 2827 China and the World (also CAPS 2827) @ (CA-AS)**

Spring. 3 credits. A. Carlson. Study of the dramatic rise of China through reviewing major developments in contemporary Chinese foreign policy since the establishment of the People’s Republic of China (PRC), and concentrating more specifically on major developments in Chinese foreign policy during the 1980s and 1990s. Such a wide-ranging survey of Chinese foreign policy involves not only a consideration of the evolution of China’s relations with its major bilateral partners but also an investigation of how China has defined its broader relationship with the international system. In addition, students are asked to consider which causal factors have been of primary importance in motivating Chinese behavior. (IR)

**[GOVT 3021 Social Movements in American Politics (also AMST 3021) (HA-AS)**

Spring. 4 credits. Next offered 2010–2011. E. Sanders. Analyzing movements from the 19th century to the present, we examine the conditions that gave rise to the movements, their accomplishments, and their political legacies. (AM)

**[GOVT 3031 Imagining America (also AMST 3031) (CA-AS)**

Fall. 4 credits. Next offered 2011–2012. D. Rubenstein.]

**[GOVT 3043 Sex, Power, and Politics (also FGSS 3040) (SBA-AS)**

Spring. 4 credits. Next offered 2010–2011. S. Martin.]

**GOVT 3063 Society and Party Politics (also SOC 3070) (SBA-AS)**

Spring. 4 credits. S. Van Morgan. For description, see SOC 3070.

**GOVT 3071 Introduction to Public Policy (SBA-AS)**

Summer. 4 credits. Offered in Cornell in Washington Program. S. Jackson. Public policy is shaped by many forces. This course will enhance your ability to understand those forces and the policies that they produce. It will provide you with tools for thinking about, assessing, and evaluating those policies. And it will introduce you to the substantive core of several major issues in America today. The course will have three segments. In the first, we will examine the relevant institutions, interests, and ideologies which operate in the policy arena and the debates about the impact of these forces which engage students of the policy process. In the second, we will consider two different lenses through which we might peer to evaluate policies. In the third, we will discuss the main lines of debate in contemporary American politics concerning four substantive issues: crime and punishment, education, the economy and foreign trade, and foreign policy. The course will meet four days a week for one hour. Based on assigned readings, the class sessions will mix lectures, discussions, group activities, and guest speakers.

**[GOVT 3091 Science in the American Polity (also AMST/STS 3911) (SBA-AS)**

Spring. 4 credits. Next offered 2011–2012. J. Reppy. For description, see STS 3911.]

**[GOVT 3111 Urban Politics (also AMST 3111) (SBA-AS)**

Fall. 4 credits. Next offered 2011–2012. M. Shefter.]

**GOVT 3128 America’s Changing Faces (also AMST 3128)**

Summer. 2 credits. Offered in Cornell in Washington Summer Program. S. Jackson. A new generation of leaders has emerged in America’s political, economic, educational and cultural institutions. Those leaders employ and explore in their work modern communications technologies such as the Internet. Thereby, they are changing both what is done, and how things are done in the respective life spheres. This course explores the resulting changes in the nature of American life and asks questions about the interactions among the different realms of life. (AM)

**GOVT 3131 The Nature, Functions, and Limits of Law (also LAW 4131) (CA-AS)**

Fall. 4 credits. Prerequisite: undergraduate standing. A. Riles. For description, see LAW 4131.

**[GOVT 3141 Prisons (also AMST 3141) (SBA-AS)**

Fall, winter, and summer. 4 credits. Next offered 2010–2011. M. Katzenstein.]

**GOVT 3150 The American Legal System: Its Nature, Functions, and Institutions**

Summer. 4 credits. Offered in New York City. C. Stewart.

For description, see Summer Session link [www.sce.cornell.edu](http://www.sce.cornell.edu).

**GOVT 3161 The American Presidency (also AMST 3161) (SBA-AS)**

Fall. 4 credits. E. Sanders.

This course will explore and seek explanations for the performance of the 20th- to 21st-century presidency, focusing on its institutional and political development, recruitment process (nominations and elections), relationships to social groups, economic forces, and "political time", and foreign and domestic policy-making.

**GOVT 3171 Campaigns and Elections (also AMST 3171) (SBA-AS)**

Fall. 4 credits. Prerequisite: GOVT 1111 or permission of instructor. Next offered 2011-2012. P. Enns.

This course examines campaigns and elections, focusing primarily on national elections in the United States. Topics typically include campaign finance, negative campaigning, the noncompetitiveness of congressional elections, presidential elections, why there are almost but not quite three parties, voter turnout, individual voting decisions, how the votes are counted (or not), and elections and the economy. We examine several theories that may explain some of these phenomena, including in particular theories of rational choice. Course requirements usually include two papers with one being based on original analysis of election survey data.

**[GOVT 3181 U.S. Congress (also AMST 3181) (SBA-AS)]**

Spring. 4 credits. Next offered 2010-2011. M. Shefter.

The role of Congress in the American political system. Topics include: the political setting within which Congress operates, the structure of Congress, the salient features of the legislative process, and recent congressional behavior in a number of policy areas. (AM)

**[GOVT 3191 Racial and Ethnic Politics (also AMST/LSP 3191) (SBA-AS)]**

Spring. 4 credits. Next offered 2010-2011. M. Jones-Correa.]

**[GOVT 3212 Public Opinion and Representation (SBA-AS)]**

Spring. 4 credits. Next offered 2011-2012. P. Enns.

This course will examine the nature of public opinion and analyze when and how it influences government. Specifically, the class will study various definitions of public opinion, theories of opinion formation and change, and how public opinion influences government policy. We will also analyze public attitudes toward specific issues, such as race and welfare, and we will discuss normative questions, such as the role opinion should play in American democracy.]

**[GOVT 3241 Inequality and American Democracy (also AMST 3241) (SBA-AS)]**

Fall. 4 credits. Next offered 2010-2011. S. Mettler.

Can democratic governance survive amid high economic inequality? We investigate effect across three major aspects of the American political system: voice, governance, and public policy.]

**GOVT 3293 Comparative Politics of Latin America (also DSOC/LATA 3290) @ (SBA-AS)**

Spring. 4 credits. Knowledge of Spanish or Portuguese not required. G. Flores-Macias.

This course is designed as an introduction to political, economic, and social issues in 20th-century Latin America. In the first section of the course the regions is analyzed through a political lens, focusing on issues including state formation, populism and corporatism, revolutions, the breakdown of democracy, military rule, and democratization. We then turn to issues under the heading of economic perspectives including dependency theory, import-substitution industrialization, the debt crisis, market reform, and the period of the post-Washington Consensus. The third section of the course presents a selection of the region's central social issues including class structures, civil-military relations, church-state relations, social movements, and both internal and international migration. Throughout the semester, we will make reference to specific countries to illustrate each topic.

**[GOVT 3303 Politics of the Global North (also ILRIC 4330)]**

Fall and summer. 4 credits. Next offered 2010-2011. L. Turner.

For description, see ILRIC 4330. (CO)]

**GOVT 3313 Middle Eastern Politics (also NES 3850) @ (CA-AS)**

Spring. 4 credits. D. Patel.

This course provides an introduction to contemporary Middle Eastern politics. The goal is to provide students with historical background and theoretical tools to answer the following core questions: (1) Why do authoritarian political systems persist in the Middle East more than they do elsewhere? (2) Why have Islamist groups become prominent opposition forces in and across some countries? (3) Why do some Middle Eastern countries suffer from high levels of political violence while others are spared? (4) What accounts for the region's current economic underdevelopment? (5) Would the adoption of Western-style political institutions improve governance and stability in the region? The course explicitly compares outcomes and explanations within the region, between the region and other world areas, and over time.

**[GOVT 3323 Modern European Politics (SBA-AS)]**

Fall. 4 credits. Next offered 2010-2011. T. Zittel.]

**GOVT 3344 Islamic Politics (also NES 3844) @ (SBA-AS)**

Fall. 4 credits. D. Patel.

This course examines the relationship between politics and contemporary Islamist movements. We will investigate the following core questions: Are religion and politics inseparable in Islam? Are Islamist movements products of the modern world or reactions against it? How does "Islam" mobilize adherents? Why have Islamists become prominent opposition forces in recent decades in some countries, but not others? Why do some Islamists, but not others, espouse violence? Do Islamist movements change as they participate in pluralist political processes? The course investigates the evolution of contemporary Islamist movements in the context of anti-colonial struggles, modern nation-state formation, neo-liberal reform, and in relation to forms of political opposition under authoritarianism and democracy. We will explore cases from the

Middle East, Central Asia, South Asia, Southeast Asia, and West Africa in order to identify and account for variation in Islamic political mobilization.

**GOVT 3353 African Politics**

Fall. 4 credits. N. van de Walle.

This is an introductory course on the politics of Sub-Saharan Africa. The goal is to provide students with historical background and theoretical tools to understand present-day politics on the continent. The first part of the course will survey African political history, touching on: pre-colonial political structures, colonial experiences and legacies, nationalism and independence movements, post-independence optimism and state-building, the authoritarian turn, economic crises, and recent political and economic liberalizations. The second part of the course will examine some contemporary political and economic issues. These include: the effects of political and social identities in Africa (ethnicity, social ties, class, citizenship); the politics of poverty, war, and dysfunction; Africa in the international system; and current attempts to strengthen democracy and rule of law on the continent.

**[GOVT 3383 Comparative Political Economy (SBA-AS)]**

Spring. 4 credits. Next offered 2011-2012. C. Way.]

**GOVT 3413 Modern European Society and Politics (also SOC 3410) (SBA-AS)**

Fall. 4 credits. S. Van Morgan.

This survey course provides an interdisciplinary overview of European social and political issues. Themes of the course will include, but will not be limited to, the political development of the nation-state, modes of governance, welfare state restructuring, party systems and elections, social movements, immigration and demography, culture and identity, external relations, and the special challenges posed by European political and economic integration. A series of background and contextual lectures will be complemented by presentations given by leading Europeanists.

**[GOVT 3427 Germany and Europe (SBA-AS)]**

Fall. 4 credits. Next offered 2011-2012. T. Zittel.]

**GOVT 3437 Politics of the European Union (SBA-AS)**

Spring. 4 credits. T. Zittel.

Despite recent bad feelings, the countries constituting the European Union (EU) still remain the most important partners for the United States in the world. And despite the rise of China and other Asian countries, the EU, together with the United States, still calls the tune in the international economy. However, even citizens of the European Union generally know very little about how this complex structure works. This course explores the policies and policy-making of the European Union against the backdrop of the postwar history of European integration and the institutional framework of the EU. Also considers the external dimension of the EU and explore current debates about the emerging European polity, in particular the European constitution. Throughout the course students reflect on parallels with the American political system and on the state of current transatlantic relations. (IR)

**GOVT 3443 Government and Politics of Southeast Asia (also ASIAN 3334) @ (HA-AS)**

Spring. 4 credits. T. Pepinsky.  
Southeast Asia is one of the world's most diverse and fascinating regions. This course will survey the political development of modern Southeast Asia, from the colonial period through today, focusing on Burma, Indonesia, Malaysia, the Philippines, Thailand, and Vietnam. We will seek to understand variation across time, across countries, and within countries on topics such as economic development, state-building, democratization, corruption, ethnic relations, and civil violence.

**GOVT 3463 Modern Japanese Politics (also ASIAN 3346) @ (SBA-AS)**

Spring. 4 credits. S. Martin.  
In the 1980s, Japan was number one. The consolidation of its postwar democracy and rapid economic growth offered an alternative political economic model for emerging democracies. By the 1990s, the economic bubble burst and provided momentum for reforming the Japanese way of doing politics. Whereas the U.S. sought to learn from Japan's success in the 1980s, we now seek to apply lessons from its failures to politically resolving our own economic crisis. This course examines the rise and fall of the "1955 System" and Japan's ongoing struggle to reach a new political equilibrium through reforms aimed at producing a better democracy. These broad themes will be addressed through a close analysis of citizen engagement with the institutional framework in an increasingly global context.

**GOVT 3553 Issues Behind the News**

Fall. 2 credits. Prerequisites: AEM/ECON 2300 or ANTHR 1400 or GOVT 1817 or GOVT 2947/PHIL 1940, or by permission of instructor. N. van de Walle.

This course will cover international current events as they unfold during the semester. Faculty from across the university will be invited to contextualize and deepen students' understanding of elections, wars, complex humanitarian emergencies, international agreements, global health issues and other relevant international events that are in the news. The course will respond flexibly to unforeseen events. Special attention will be devoted to U.S. foreign policy issues and how U.S. foreign policies are formulated and implemented. The course will strive to expose students to different points of view on these issues.

**GOVT 3605 Ideology (CA-AS)**

Fall. 4 credits. D. Rubenstein.  
Focuses on critical approaches to the study of ideology in order to understand the role of ideology in political subject formation. After an initial presentation of the classical Marxist texts on ideology, examines 20th-century reworkings of hegemony theorist Antonio Gramsci and the critical structuralist approaches of Roland Barthes, Jean Baudrillard, and Dick Hebdige. Concentrates on the "lived relation" to ruling ideas in the form of ideologies of everyday life. The second part of the course is devoted to psychoanalytically oriented theories (Freud, Lacan) which address the internalization of belief, both in relation to the intrapsychic and in the interaction between psychic and state apparatuses. Concludes with Louis Althusser's notion of interpellation, which resumes the Marxist, structuralist and psychoanalytic objectives of the course material. The theorists

in the second part of the course are contextualized within the experience of the historical traumas of fascism and French decolonization. Throughout the semester, students reflect on the continued relevance of historic ideologies, centered around notions of class interest, to late 20th-century ideologies' attachments to national, religious, gendered, ethnic, technological identity. (PT)

**GOVT 3625 Modern Political Philosophy (also PHIL 3460) (KCM-AS)**

Fall. 4 credits. R. Miller.  
For description, see PHIL 3460.

**GOVT 3633 Politics and Culture (also SOC 2480) (HA-AS)**

Fall. 4 credits. M. Berezin.  
For description, see SOC 2480.

**[GOVT 3655 Politics and Literature (also AMST 3655) (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
J. Frank.]

**GOVT 3665 American Political Thought from Madison to Malcolm X (also AMST 3665, HIST 3160) # (HA-AS)**

Fall. 4 credits. I. Kramnick.  
Survey of American political thought from the 18th century to the present. Particular attention is devoted to the persistence of liberal individualism in the American tradition. Politicians, pamphleteers, and poets provide the reading. Insightful historical and social context is offered.

**[GOVT 3695 Marx and After # (KCM-AS)]**

Fall. 4 credits. Next offered 2011–2012.  
S. Buck-Morss.  
We will read the texts of Marx that set the agenda for a century of political and theoretical debate, and key essays that have built on his dialectical materialist theory in the 20th century.]

**GOVT 3705 Political Theory and Cinema (also COML 3300, FILM 3290, GERST 3550) (CA-AS)**

Spring. 4 credits. G. Waite.  
For description, see GERST 3550.

**[GOVT 3716 Education of Princes (also COML/NES 3716) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
S. Toorawa.

For description, see NES 3716.]

**GOVT 3725 Ideology 2: Everyday Life (also COML/FREN 3725) @ (CA-AS)**

Spring. 4 credits. D. Rubenstein.  
This course elaborates a critique of everyday life in writings of 20th- and 21st-century continental authors such as Henri Lefebvre, Michel de Certeau, Pierre Bourdieu, Jean Baudrillard and Guy Debord, among others. Topics to be considered include consumerism, neoliberalism, situationism as well as larger philosophical issues relating to time, space and technology.

**GOVT 3735 Political Freedom**

Spring. 4 credits. J. Frank.  
This course will explore dilemmas surrounding the concept and practice of political freedom. We will begin with an examination of traditional philosophical approaches to this issue—such as debates about free will and determinism, agency and structure, and negative and positive liberty—but we will primarily focus on how these traditional rubrics obscure our understanding of the particularity of political freedom. In order to better grasp this particularity we will

explore diverse theoretical, literary, and social scientific works. Authors read may include Sophocles, Augustine, Dostoevsky, Plato, Arendt, Emerson, Dewey, Foucault, Melville, Berlin, Gaventa, and Scott.

**GOVT 3847 Weapons of Mass Destruction (also PHYS 2206) @**

Spring. 4 credits. *Students enrolled in GOVT 3847 receive SBA-AS and students enrolled in PHYS 2206 receive PBS-AS.*  
S. Kreps and G. Lewis.

The 20th and early 21st centuries have been profoundly affected by the development of extremely destructive, technology-based weapons, often (and sometimes wrongly) lumped together under the term "weapons of mass destruction." This course will examine topics such as the physics, technology, ethics, and politics of nuclear weapons. In addition, the course will explore the nuclear arms race, efforts to restrain it via arms control, important concepts and strategies including nuclear deterrence, and recent and current issues associated with nuclear proliferation. Similarly, the technology, past and future potential uses, and prospects for preventing future use of biological, chemical, and radiological weapons will be covered. Finally, the delivery systems that enable the use of many of the above weapons will also be covered, ranging from the mass and fire bombings of World War II, to the massive missile arsenals of the Cold War, and to current issues such as the deployment and effectiveness of missile defenses.

**[GOVT 3857 American Foreign Policy (also CAPS 3857) (SBA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
P. Katzenstein.

America is marked by multiple traditions and identities as well as a state on steroids, or imperium, and a nation on stilts, or civilization. These traits are reflected in its foreign policies. (IR)

**[GOVT 3867 The Causes of War (SBA-AS)]**

Spring. 4 credits. Next offered 2011–2012.  
C. Way.]

**GOVT 3898 International Law (HA-AS)**

Fall. 4 credits. Taught in Washington, D.C.  
Is international law a pious delusion, helpless in the face of real power? Or is public policy becoming so entangled in international standards that international law is now eroding national sovereignty? This course surveys the theoretical foundations and general history of international law since the 17th century to highlight what is new in the doctrines and institutions by which it operates in the contemporary world. The course gives special attention to the relation between international and U.S. law and to the workings of international law in particular fields—including environmental and human rights protection, trade regulation, and control of terrorism. (IR)

**GOVT 3937 Introduction to Peace and Conflict Studies (SBA-AS)**

Fall and summer. 4 credits. S. Kreps.  
This course serves as an introduction to the study of war, peace, and peacemaking. We will study different theories of peace and war from a variety of disciplinary perspectives. The course will cover definitions of peace and war, causes of conflict, and modes of conflict prevention and resolution. The concepts will be applied to a range of historical and current conflicts. Students will prepare analyses of specific conflicts or instances of peacemaking for class presentation. (IR)

**[GOVT 3944 Comparative Foreign Policy**

Spring. 4 credits. Next offered 2010-2011.  
J. Weeks.

This course explores differences in foreign policy across states, introducing competing theories of foreign policy and applying them to specific countries and foreign policy issues.]

**[GOVT 3957 New Forces in International Politics (SBA-AS)**

Fall. 4 credits. A. Carlson.

How important are regional groupings, non-governmental organizations, narco-terrorists, ethnic groups and transnational environmental issues, within international politics? These forces seem to be occupying an increasingly central position in the international arena, yet the factors that have caused their rise, and the degree to which they have transformed the face of international politics, are still poorly understood. In this course we will address such issues through exploring how students of international politics have described and explained the emergence of these new forces in the international system during the post-Cold War period. In short, the course will focus on determining the extent to which we are witnessing a transformation of the international political system, and why such a change is (or is not) taking place.

**[GOVT 3977 Israeli-Palestinian Conflict (also HIST/SOC 3970, JWST/NES 3697) @ (HA-AS)**

Spring. 4 credits. R. Brann.  
For description, see NES 3697.

**[GOVT 4032 Immigration and Politics Research Seminar (also AMST/LSP 4032) (SBA-AS)**

Spring. 4 credits. Next offered 2011-2012.  
M. Jones-Correa.]

**[GOVT 4041 American Political Development in the 20th Century (also AMST 4041, AMST/GOVT 6121) (HA-AS)**

Fall. 4 credits. Next offered 2010-2011.  
E. Sanders.

Examines major political reform periods leading to policy change in economic regulation, social welfare, and national security policy.]

**[GOVT 4051 The Postmodern Presidency: Election 2008 (also AMST 4051) (CA-AS)**

Fall. 4 credits. D. Rubenstein.]

**[GOVT 4061 Politics of Slow-Moving Crisis (also AMST 4061/6161, GOVT 6161) (SBA-AS)**

Fall. 4 credits. Next offered 2011-2012.  
M. Jones-Correa.]

**[GOVT 4142 Causes and Consequences of American Foreign Policy (also AMST 4142, GOVT/AMST 6142) (SBA-AS)**

Fall. 4 credits. Next offered 2011-2012.  
E. Sanders.

What is the impact of U.S. foreign policy on the world, U.S. society, and political institutions? What are the forces that drive U.S. foreign policy?]

**[GOVT 4222 Political Culture (also AMST 4222)**

Spring. 4 credits. R. Benschel.  
This course will explore the relationship between popular belief, political action, and the institutional deployment of social power. The class will be roughly divided in three parts, opening with a discussion of how the material

world influences the culture of a society. The middle section will connect culture to political ideology, including symbolism and the construction of group identity. The last part of the course will consider ways in which cultural symbols and ideology can be manipulated in order to legitimate government authority. We will then, coming full circle, trace how political regimes can influence the social practices from which culture originates.

**[GOVT 4231 The 1960s: Conceptualizing the Future from the Past (also AMST 4231) (CA-AS)**

Fall. 4 credits. Next offered 2010-2011.  
J. Kirshner and T. Lowi.]

**[GOVT 4241 Contemporary American Politics (also AMST 4241, AMST/GOVT 6291) (HA-AS)**

Spring. 4 credits. M. Shefter.  
Seminar analyzing some major changes in U.S. electoral and group politics in recent decades. Topics include: partisan realignment, the new conservatism, racial cleavages, "identity politics," and democratic decline.

**[GOVT 4281 Government and Public Policy: An Introduction to Analysis and Criticism (also AMST 4281/6281, GOVT 7281) (SBA-AS)**

Fall. 4 credits. T. J. Lowi.  
Concentrates on history and criticism of U.S. policies and the politics associated with them. Particular attention is given to the origins and character of the regulatory state and the welfare system. (AM)

**[GOVT 4293 Politics of Science (also STS/BSOC 4291) (SBA-AS)**

Fall. 4 credits. Next offered 2010-2011.  
R. Herring.

A research seminar in which each student, or perhaps some in clusters, will write research papers on the politics of science. How do societies—and increasingly global regimes—deal with collective uncertainty and risk? What are the arguments about trade-offs and precaution? Science claims for itself only a method of judging truth claims through transparent and replicable testing of theory-driven hypotheses: how do theological ("creation science" or "Vedic science") and civilizational ("Western science") embeddings become politically activated? To what extent is real science politically crippled by its own commitment to incremental evidence-based knowledge in the face of junk science? We will look at scientific controversies and their political representation in the large general field of the environment, medicine, biotechnology and food systems.]

**[GOVT 4374 States and Societies in the Middle East (also GOVT 6474, NES 4874/6874)**

Spring. 4 credits. D. Patel.  
This seminar surveys research approaches and puzzles in contemporary Middle Eastern politics. Students will be introduced to some of the major arguments, hypotheses and debates in the literature. Topics to be considered include: the nature and legacies of colonialism, state-building and the character of contemporary Middle Eastern regimes, the political economy of oil, economic crises, elections and political "liberalization," and the role of Islamism in political, social, and economic life. The seminar is designed principally for graduate students who focus their research on the Middle East and advanced undergraduates who have taken courses in Middle Eastern politics or history.

**[GOVT 4585 American Political Thought (also AMST 4585, GOVT 6585) (HA-AS)**

Fall. 4 credits. J. Frank.  
Seminar providing an advanced survey of the history of American political thought, with emphasis placed on four significant periods: Puritan New England, the Revolution and Founding, Abolition and Civil War, and the Progressive Era. Authors read may include: Winthrop, Hutchinson, Franklin, Paine, Jefferson, Madison, Warren, Tocqueville, Fitzhugh, Calhoun, Douglas, Garrison, Thoreau, Melville, Whitman, Lincoln, Adams, Du Bois, Goldman, Dewey, Lippmann, Taylor, and Bourne. (PT)

**[GOVT 4616 Interpreting Race and Racism: Du Bois (also AMST 4616) (HA-AS)**

Spring. 4 credits. Next offered 2010-2011.  
A. M. Smith.

Seminar in critical race theory and the contemporary implications of the Reconstruction Amendments to the Constitution, with a focus on the work of Du Bois.]

**[GOVT 4625 Sexuality and the Law (also AMST 4625/6625, FGSS 4610/7620, GOVT 7625) (KCM-AS)**

Spring. 4 credits. Next offered 2011-2012.  
A. M. Smith.]

**[GOVT 4635 Feminist Theory/Law and Society (also AMST 4365) (CA-AS)**

Fall. 4 credits. Next offered 2010-2011.  
A. M. Smith.

Feminist analysis of policy and legal issues central to gender justice: reproductive rights, HIV and AIDS, poverty policy, transnational women's advocacy, prisons, same-sex marriage, etc. (PT)]

**[GOVT 4646 Derrida and Philosophy of Hospitality (also GOVT/COML 6675, HADM 5590)**

Fall. 4 credits except for HADM 5590, which is 3 credits. D. Rubenstein and L. Shaffer.

Beginning with an examination of hospitality in Plato, Xenophon, Kant, Levinas, and the Bible, we focus on the writings of Jacques Derrida on hospitality from the 1990's until his death. We also consider contemporary readers of hospitality and cosmopolitanism such as Tracy McNulty, Pierre Bourdieu, Seyla Benhabib, Bonnie Honig, James Davidson, Andrew Sandoval-Strausz, and Wayne Koestenbaum. These theoretical texts would be put in tension with practitioners such as Danny Meyers, E. M. Statler, films (Frears, Loach), novels (Kirin Desai) and labor manifestos (Ehrenreich, Levinson.)

**[GOVT 4665 Islamism (also NES 4953) @**

Fall. 4 credits. Prerequisite: graduate students or juniors and seniors who have taken GOVT 1615 or 3000-level course in political theory. S. Buck-Morss.  
This course is intended to introduce students to the complexities of political Islam as a modern experience of opposition that deals with issues of social justice, legitimate power, and ethical life. While we will read translations of original sources by founding theorists (Sayyid Qutb, Ali Shariati, Iqbal) as well as excerpts from speeches by Islamic militants (Ayatollah Khomeini, Osama bin Laden), our approach is not only textual. We are interested in the role Islamism plays in everyday life of hundreds of thousands of contemporary Muslims, analyzed by anthropologists, literary

critics, media analysts (of cassettes, cinema, and internet) and others who describe its audio, visual, public, private, and networking effects. We will also examine recent interconnections between Islamic with Western thinkers (Malcolm X, Frantz Fanon).

**GOVT 4678 Extrastatecraft (also SHUM/VISST 4826)**

Fall. 4 credits. K. Easterling.  
For description, see SHUM 4826.

**[GOVT 4705 Contemporary Reading of the Ancients (CA-AS)]**

Fall. 4 credits. Graduate students welcome to enroll. Next offered 2011–2012.  
D. Rubenstein.]

**[GOVT 4715 Critical Reason, The Basics: Kant, Hegel, Marx, Adorno (also GERST 4710) (KCM-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
S. Buck-Morss.]

**GOVT 4735 Marx, Freud, Nietzsche (also COML 4250, GERST 4150) # (CA-AS)]**

Fall. 4 credits. G. Waite.  
For description, see GERST 4150.

**GOVT 4748 Link, Network, Nexus (also COML 4115, FREN/SHUM 4936, STS 4361)**

Spring. 4 credits. B. Massumi.  
For description, see SHUM 4936.

**[GOVT 4769 Spinoza and the New Spinozism (also COML/GERST 4090, JWST 4790) (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012.  
G. Waite.]

**[GOVT 4809 Politics of '70s Films (SBA-AS)]**

Spring. 4 credits. Next offered 2011–2012.  
J. Kirshner.]

**GOVT 4817 International Conflict and Laws of War (SBA-AS)]**

Spring. 4 credits. S. Kreps.  
The purpose of this course is to explore contemporary international law as it addresses the use of military force. It first explores *ius ad bellum*—the law relating to the recourse to force, including its historical development, the UN Charter framework for the use of force, and a number of current issues relating to the *ius ad bellum*. These will include: preemptive force, rescue of nationals, humanitarian intervention, civil conflict, and terrorism. The course then turns to an examination of *ius in bello*—the law relating to the conduct of hostilities. It evaluates the legal framework established by the Hague and Geneva Conventions and discusses a variety of contemporary issues, including the treatment of prisoners of war, the use of nuclear weapons and other weapons of mass destruction, and weapons targeting policies. Third, the course examines courts and other tribunals that have been established to try persons for violation of international legal rules dealing with the use of force. Such tribunals include: the Nuremberg Tribunal, the International Criminal Tribunals for Yugoslavia and Rwanda, and the International Criminal Court. Finally, we will explore the future of the law relating to the use of force. (IR)

**GOVT 4827 Unifying While Integrating: China and the World (also CAPS 4827, GOVT 6827) @ (HA-AS)]**

Spring. 4 credits. A. Carlson.  
Seminar intended to examine the increasingly complex relationship that has evolved

between China and the rest of the international system during the 1980s and 1990s. Emphasizes the interrelated, yet often contradictory, challenges facing Beijing in regard to the task of furthering the cause of national unity while promoting policies of integration with international society and interdependence with the global economy. Concentrates especially on ongoing controversies over the rise of Chinese nationalism and the persistence of “minority nationalism” in many regions within China. (IR)

**[GOVT 4837 The Military and New Technology (also STS 4831) (SBA-AS)]**

Fall. 4 credits. Next offered 2011–2012.  
Staff.  
For description, see STS 4831.]

**[GOVT 4862 Classics and Early America (also CLASS 4683, HIST 4861) # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
H. Rawlings.  
For description, see CLASS 4683.]

**GOVT 4877 Asian Security (also CAPS 4870, GOVT 6877) @ (SBA-AS)]**

Fall. 4 credits. A. Carlson.  
Throughout the 1990s it has been part of the conventional wisdom of international relations scholarship that Asia was, in the words of Aaron Friedberg, “ripe for rivalry.” In this seminar we explore the accuracy of such an assessment through studying Asia’s historical and contemporary security situation. Such an examination will be oriented toward introducing students to the main security issues confronting Asia, alongside an exploration of the extent to which competing explanations drawn from different strands of IR theory and the security field can explain such issues. In addition, we will ask students to challenge the limitations of traditional security studies through considering the importance of new actors and issue areas within the region. In short, while the Seminar will have a regional focus on East Asia, it will be framed within the broader literature of the field.

**[GOVT 4917 Ethics in International Relations (KCM-AS)]**

Spring. 4 credits. Next offered 2011–2012.  
M. Evangelista.

This course examines current and historical issues in international relations from the perspective of international law, norms, and ethics.]

**GOVT 4949 Honors Seminar: Thesis Clarification and Research**

Fall. 4 credits. Prerequisite: acceptance into honors program. E. Sanders.  
Designed to support thesis writers in the honors program during the early stages of their research projects.

**GOVT 4959 Honors Thesis: Research and Writing**

Spring. 4 credits. Prerequisite: successful completion of GOVT 4949. E. Sanders.

**GOVT 4998 Politics and Policy: Theory, Research, and Practice (also ALS/AMST/CAPS 4998, PAM 4060)**

Fall, spring. Offered in Cornell in Washington Program.  
This required course forms the core of the Cornell in Washington program for students in the public policy option. The central course objective is to provide students with the

instruction and guidance necessary to analyze and evaluate their own chosen issue in public policy. Toward that end, the course has three components: (1) weekly lectures providing background on the structures and processes of national politics and policy as well as training in research methodology; (2) student externships; and (3) individual research papers or projects. All three components interrelate so as to provide students with a strategy and framework for integrating classroom based learning, field experience and individual research.

**GOVT 4999 Undergraduate Independent Study**

Fall or spring. 1–4 credits.  
One-on-one tutorial arranged by the student with a faculty member of his or her choosing. Open to government majors doing superior work, and it is the responsibility of the student to establish the research proposal and to find a faculty sponsor. Applicants for independent study must present a well-defined program of study that cannot be satisfied by pursuing courses in the regularly scheduled curriculum. No more than four credits of independent study may count toward fulfillment of the major. Students who elect to continue taking this course for more than one semester must select a new theme or subject each semester. Credit can be given only for work that results in a satisfactory amount of writing. Emphasis is on the capacity to subject a body of related readings to analysis and criticism. Keep in mind that independent study cannot be used to fulfill the seminar requirement. The application form for independent study is available in 210 White Hall and must be completed at the beginning of the semester in which the course is being taken.

**[GOVT 6019 Methods of Political Analysis I]**

Fall. 4 credits. Next offered 2011–2012.  
P. Enns.

Introduction to the quantitative analysis of political data, with an emphasis on probability theory, descriptive statistics, measures of association, and hypothesis testing.]

**GOVT 6029 Methods of Political Analysis II**

Spring. 4 credits. P. Enns.  
This course will introduce students to some basic methods for conducting quantitative analyses in political science. After taking this course, students will be able to read and critique political science research that uses basic statistical analyses as well as be able to use basic statistical techniques, such as multiple regression analysis, in their own research. The course will begin with basic probability theory and proceed to statistical analysis of political data.

**[GOVT 6031 Field Seminar in American Politics]**

Fall. 4 credits. Next offered 2011–2012.  
M. Jones-Correa.

Introduces the major issues, approaches, and institutions of American government and the various subfields of American politics. Focuses on both substantive information and theoretical analysis. (AM)]

**GOVT 6053 Comparative Method in International and Comparative Politics**

Spring. 4 credits. C. Anderson.

An in-depth, graduate-level introduction to qualitative and comparative methods of political analysis, with special emphasis on the application of these methods in comparative and international politics. Through readings, discussions, and written assignments, students will explore strategies for concept formation, theory construction, and theory testing, using the craft and tools of comparative political analysis.

**GOVT 6067 Field Seminar in International Relations**

Fall. 4 credits. S. Kreps.

General survey of the literature and propositions of the international relations field. Criteria are developed for judging theoretical propositions and are applied to the major findings. Participants are expected to do extensive reading in the literature as well as research. (IR)

**GOVT 6075 Field Seminar in Political Thought**

Spring. 4 credits. I. Kramnick.

A survey of the early modern political theory canon, emphasizing texts and writers from the 17th and 18th centuries. (PT)

**[GOVT 6101 Political Identity: Race, Ethnicity, and Nationalism**

Fall. 4 credits. Next offered 2010-2011. M. Jones-Correa.]

**[GOVT 6121 American Political Development in the 20th Century (also AMST 6121, AMST/GOVT 4041)**

Fall. 4 credits. Next offered 2010-2011. E. Sanders.

For description, see GOVT 4041.]

**GOVT 6132 The Politics of Inequality**

Spring. 4 credits. S. Mettler.

In the mid-20th century United States, egalitarianism seemed to be on the rise: the ranks of the middle class swelled and policy makers eradicated laws that had long sanctioned racial and gender hierarchies. Then, beginning in 1973 and to the present, economic inequality escalated, stratifying Americans by income and wealth and reinforcing old cleavages that the civil rights and feminist movements had sought to overcome. This course investigates how American politics has influenced and been shaped by these developments. We will examine trends across the political system, investigating aspects of political voice, including political participation and public opinion; political institutions, including Congress, political parties, and interest groups; and public policy, considering the extent to which it ameliorates or fosters inequality. The course offers a broad survey of important literature in the field of American politics.

**GOVT 6142 Causes and Consequences of U.S. Foreign Policy (also AMST 4142/6142, GOVT 4142)**

Fall. 4 credits. E. Sanders.

For description, see GOVT 4142.

**[GOVT 6151 State and Economy in Comparative Perspective**

Fall. 4 credits. Next offered 2011-2012. R. Bensel.]

**[GOVT 6171 Politics of Public Policy**

Spring. 4 credits. Next Offered 2010-2011. S. Mettler.]

**GOVT 6202 Political Culture (also AMST 6202)**

Spring. 4 credits. R. Bensel.

This graduate course will explore the relationship between popular belief, political action, and the institutional deployment of social power. The class will be roughly divided in three parts, opening with a discussion of the material foundations of cultural ideation in socioeconomic "practice." The middle section will connect ideation to political ideology, including symbolism and group identity. The last portion of the course will consider the impact of both cultural ideation and political ideology on institutional structure and legitimation. This section will also trace how political regimes can influence, coming full circle, to the material foundations of cultural ideation.

**[GOVT 6264 Social Movements in Latin America (also GOVT 4264)**

Fall. 4 credits. Next offered 2010-2011. K. Roberts.

For description, see GOVT 4264.]

**[GOVT 6274 People, Markets, and Democracy**

Fall. 4 credits. Next offered 2010-2011. C. Anderson.

Examines the relationship between the economy and democracy. Focuses on behavioral political economy in democratic or democratizing countries. Major topics include inequality and democratic performance.]

**GOVT 6291 Contemporary American Politics (also AMST 4241/6291, GOVT 4241)**

Spring. 4 credits. M. Shefter.

For description, see GOVT 4241. (AM)

**GOVT 6301 Institutions (also AMST 6301)**

Fall. 4 credits. R. Bensel.

This graduate course will explore the ways in which institutional rules shape the conduct and outcome of politics as collective decision-making and deliberation. The focus will be primarily on the United States Congress where the literature on institutional design and structure is both comprehensive and deep. Subordinate sections of the course will cover the general literature on theories of institutional formation and influence over politics, as well as briefly addressing law and judiciaries in order to broaden the sampling of specific cases and applications.

**GOVT 6324 Proseminar in Chinese Politics**

Spring. 4 credits. A. Mertha.

**GOVT 6334 Political Economy of Development**

Fall. 4 credits. K. Roberts and K. Morrison.

This course provides an overview of major theoretical and empirical works regarding the political determinants of improvements in human well-being. Focusing broadly on issues of economic growth and distribution, the topics we will cover include economic reform, industrialization strategies, agricultural development, the institutional foundations of growth, human capital development, regional inequality, and poverty reduction. Along the way, we will encounter a variety of theoretical traditions as well as methodological approaches and touch on most regions of the world.

**GOVT 6353 Field Seminar in Comparative Politics**

Fall. 4 credits. S. Tarrow.

This course provides an introduction to comparative politics, introducing students to classic works as well as recent contributions that derive from those works. Topics to be covered include democracy, authoritarianism, state-building, political parties, welfare states, and social movements and revolutions. Members of the subfield will join the seminar on alternative weeks to develop each topic introduced by the classical readings. (CO)

**GOVT 6384 Democracy and the Media**

Spring. 4 credits. T. Zittel.

The relationship between democracy and the media is conflict-laden. Modern democracy would be on the one hand impossible without media. Media are considered on the other as a potential threat to modern democracy. The increasing pervasiveness of mediated political communication emphasizes the tension between democracy and the media to increasing degrees. This class aims at an in-depth survey on the concepts that we use to analyze the relationship between democracy and the media and on the findings emerging from empirical research guided by these concepts. The class adopts a comparative perspective to understand the impact of contextual factors on the relationship between democracy and the media.

**[GOVT 6393 Comparative Political Participation**

Fall. 4 credits. Next offered 2011-2012. S. Martin.]

**GOVT 6413 Revitalizing Labor: A Comparative Perspective (also ILRIC 6320)**

Spring. 4 credits. L. Turner.

For description, see ILRIC 6320.

**[GOVT 6423 Feminist Methodology (also FGSS 6170)**

Spring. 4 credits. Next offered 2010-2011. S. Martin.

For description, see FGSS 6170.]

**GOVT 6461 Public Opinion**

Spring. 4 credits. P. Enns.

This course provides an introduction to the vast literature devoted to public opinion. We will survey the major theoretical approaches and empirical research in the field of political behavior, although we will touch on participation and voting only in passing. The primary focus will be on American public opinion, although there will be some attention to comparative work. In addition to empirical research on the antecedents of opinion and its role in the larger political system, we will consider normative work on the meaning and measurement of opinion and on its role in democratic politics. (AM)

**GOVT 6474 States and Societies in the Middle East (also GOVT 4374, NES 4874/6874)**

Spring. 4 credits. D. Patel.

This seminar surveys research approaches and puzzles in contemporary Middle Eastern politics. Students will be introduced to some of the major arguments, hypotheses and debates in the literature. Topics to be considered include: the nature and legacies of colonialism, state-building and the character of contemporary Middle Eastern regimes, the political economy of oil, economic crises, elections and political 'liberalization,' and the

role of Islamism in political, social, and economic life. The seminar is designed principally for graduate students who focus their research on the Middle East and advanced undergraduates who have taken courses in Middle Eastern politics or history.

**GOVT 6523 Methods for Field Research**  
Fall. 4 credits. D. Patel.

This research seminar surveys the study of political culture. The course is designed to assess the strengths and weaknesses of various approaches that seek to account for the influence of culture on economic and political behavior and institutions, and to account for shifts in culture over time. A wide range of methodological approaches within political science are examined, as well as approaches from anthropology, sociology, and economics. Applications include ethnicity and identity, conflict, regime type, and economic growth. The focus is on how rationalist and institutionalist approaches ignore or incorporate political culture through choice, coordination, and common knowledge.

**GOVT 6544 Gender and Politics (also FGSS 6544)**

Fall. 4 credits. S. Martin and S. Mettler.  
What role does gender play in political behavior, law, and public policy? How can we explain the variation in that role across historical and national contexts? This course considers the social, cultural, and institutional mechanisms through which states structure gender roles and relations. It also investigates how gender regimes influence patterns of political activism and social change. We will examine puzzles such as why greater gender equality is found in some political contexts than others, and why states feature different configurations of rights and restrictions with respect to gender, for example with some granting relatively high degrees of social equality while restricting reproductive freedom, and vice versa. Specific attention will be given to how gender categories and debates shape the discipline of political science, shaping the questions we ask and the answers we find.

**GOVT 6564 Comparative Political Representation**

Fall. 4 credits. T. Zittel.  
This class offers an in depth examination of main problems of political representation from a comparative perspective. The main focus will be on the established Western democracies. The class is structured in three main parts. In its first part we will discuss core theoretical concepts guiding the comparative analysis of representative systems. The second part will consist of a discussion of the empirical literature on representative systems; of differences between democratic systems, of the causes for these differences and of their consequences. A third part deals with the question, whether representative democracy is in need of reform because of a lack of performance and/or because of a changing social and technological environment.

**GOVT 6585 American Political Thought (also AMST 6585, AMST/GOVT 4585)**

Spring. 4 credits. J. Frank.  
For description, see GOVT 4585.

**[GOVT 6603 States and Social Movements (also SOC 6600)**

Spring. 4 credits. Next offered 2010–2011.  
S. Tarrow.

This course is a broad examination of several types of contentious politics—social movements, civil wars, nationalist episodes and revolutions in different parts of the world. (CO)]

**[GOVT 6625 Field Seminar in Political Theory**

Fall. 4 credits. Next offered 2010–2011.  
J. Frank.

Introduces students to several contemporary approaches to political theorizing, with an emphasis placed on different modes of interpretation. Authors read may include: Althusser, Arendt, Butler, Foucault, Habermas, Kristeva, MacIntyre, Skinner, Strauss, Taylor, Wolin, and Zizek. (PT)]

**[GOVT 6645 Democratic Theory (also AMST 6645)**

Fall. 4 credits. Next offered 2010–2011.  
J. Frank.]

**[GOVT 6665 Media Theory: Film and Photograph (also VISST 6466)**

Spring. 4 credits. Next offered 2011–2012.  
D. Rubenstein.]

**GOVT 6675 Derrida and Philosophy of Hospitality (also GOVT 4646, HADM 5590, COML 6675)**

Fall. 4 credits except for HADM, which is 3 credits.  
For description, see GOVT 4646.

**GOVT 6695 Modern Social Theory I**

Fall. 4 credits. S. Buck-Morss.  
Topics vary. In fall 2009, we will reflect philosophically and politically on Imagination, dealing with theories of the image and its social participation. Our approach will be cognitive-empirical rather than romantic-artistic. Aesthetic here means experiential, i.e., perceptible through the senses. Collectively shared images are examined as social facts endowed with political power, not artistic representations created by genial subjects. With the invention of camera/digital technology, image-events have become determinant in history. Moving (away) from the modern philosophic canon—Kant, Hegel, Dewey, Adorno—we will consider imagination as a social process in the pre-printing press past (Mondzain on the icon), the post-printing press present (Benjamin on the image), and the digital future (neuro-scientific theories, imagination as metaphor). (PT)

**GOVT 6705 Modern Social Theory II**

Spring. 4 credits. S. Buck-Morss.  
In spring 2010, we will read Walter Benjamin's *Arcades Project*. We will approach the text as a materialist philosophy of history with a political intent, paying special attention to the work of social theorists whom he cites in the project: Karl Marx (dreamworlds), Georg Simmel (urban life), Charles Fourier (communism), St-Simonians (industrial utopia) Bakunin (revolution) and Claire Démar (feminism). Advanced seminar, not recommended for undergraduates.

**[GOVT 6726 Psychoanalysis and Ideology**

Spring. 4 credits. Next offered 2011–2012.  
D. Rubenstein.]

**GOVT 6775 Language and Politics**

Spring. 4 credits. J. Frank.

This course explores the “linguistic turn” of recent political theory alongside canonical debates over the political and epistemological consequences of different philosophies of language. Writers examined will include Locke, Rousseau, Nietzsche, Wittgenstein, Austin, Derrida, Butler, and Cavell.

**[GOVT 6807 Topics in Comparative and International Political Economy**

Spring. 4 credits. Next offered 2011–2012.  
T. Pepinsky.

Seminar covering current research on political economy, focusing on trade, finance, production, migration, development, welfare, and regime change.]

**GOVT 6827 Unifying While Integrating: China and the World (also CAPS/GOVT 4827)**

Spring. 4 credits. A. Carlson.  
For description, see GOVT 4827.

**[GOVT 6857 International Political Economy**

Fall. 4 credits. Next offered 2010–2011.  
P. Katzenstein.

Exploration into a range of contemporary theories and research topics in the field of international political economy. The seminar covers different theoretical perspectives and a number of substantive problems. (IR)]

**GOVT 6867 War, States, and Contention**

Fall. 4 credits. S. Tarrow.

This course will examine the relationships among state-building, war-making, and contention over rights in wartime, in preparations for war, and in the wake of war. It asks: first, do states expand rights or retract rights during or after wars; second, are there certain kinds of rights (for example, rights related to war mobilization) that are repressed during wars, while others (those peripheral to mobilization) are expanded—for example, the suffrage; third, are some kinds of wars more or less restrictive of rights than others; Fourth, do wars like the “War on Terror” reduce the incentives for states to extend rights and increase their tendency to retract or abuse rights; finally, how do social movements respond to the expansion of executive authority and the limitation of rights during wars?

**[GOVT 6887 Political Economy and National Security**

Spring. 4 credits. Next offered 2010–2011.  
J. Kirshner.

This seminar considers the relationship between economics and national security. Specific topics will change from year to year, but will typically include the following: the economic foundations of power, economic coercion, the economic roots of conflict, and the ways in which structural changes in the international economy shape and limit state authority. (IR)]

**[GOVT 6897 International Security Politics**

Fall. 4 credits. Next offered 2011–2012.  
P. Katzenstein and J. Weeks.

This seminar introduces students to a variety of theoretical perspectives and empirical approaches related to international conflict, peace, and security. (IR)]

**GOVT 6917 Normative Issues in IR (also GOVT 4888, PHIL 4471/6470)**

Spring. 4 credits. R. Miller  
For description, see PHIL 4471.

**GOVT 6927 Administration of Agriculture and Rural Development (also IARD 6060)**

Spring. 4 credits. N. Uphoff and  
T. W. Tucker.  
For description, see IARD 6030.

**GOVT 6999 CIPAs Weekly Colloquium**

Fall, spring. 1 credit. S-U grades only.  
T. Lowi.  
Colloquium is the weekly seminar series hosted by the Cornell Institute for Public Affairs (CIPA). It is also a required, 1-credit course for all CIPA Fellows and is graded S-U based on attendance. The colloquium series is a collaborative effort between the CIPA Colloquium Committee and the faculty and staff of CIPA.

**[GOVT 7035 Political Economy**

Fall. 4 credits. Next offered 2010-2011.  
J. Kirshner.  
This course will undertake a general survey of the classical and modern theories of political economy. The works of Smith, Keynes, Shumpeter, and Hayek, among others, will be studied and placed within the context of the history and evolution of the thought, practice, and method of the field. Issues pertaining to the politics of macroeconomics and money will be of prominent (but not exclusive) interest in the course. (PT)

**GOVT 7063 Labor in Global Cities (also ILRCB 7060)**

Fall. 4 credits. L. Turner.  
For description, see ILRCB 7060. (CO)

**GOVT 7073 Game Theory 1: Perfect Information**

Fall. 4 credits. K. Morrison.  
Game theory is a tool for studying strategic interaction. This course offers a critical introduction, with applications to comparative politics, American politics, and international relations. We will study the core concepts of game theory; how to formulate, solve, and empirically test games in ways that help advance research; and how to assess game-theoretic arguments in the political science literature. The course requires no prior training in game theory or formal methods.

**GOVT 7074 Game Theory 2: Advanced Topics**

Spring. 4 credits. Prerequisite: GOVT 7073.  
K. Morrison.  
This is the second of two graduate courses on game theory in the government department. In the first half of this course, we will focus on advanced topics, including coalitional games, games of imperfect information, evolutionary games, and bargaining. The second half of the course will be focused on helping students develop their own models, using the techniques learned in both of the courses.

**GOVT 7281 Government and Public Policy (also AMST 4281/6281, GOVT 4281)**

Fall. 4 credits. T. J. Lowi.  
For description, see GOVT 4281. (AM)

**[GOVT 7625 Sexuality and the Law (also FGSS 4610/7620, GOVT 4625)**

Spring. 4 credits. Next offered 2011-2012.  
A. M. Smith.  
For description, see GOVT 4625.]

**GOVT 7999 Independent Study**

Fall or spring. 4 credits. *Not* open to undergraduates. Undergraduates wishing to conduct supervised study should register for GOVT 4999.

Individualized readings and research for graduate students. Topics, readings, and writing requirements are designed through consultation between the student and the instructor. Graduate students in government who are looking to use this as an option to fulfill their course requirements should check with their chairs to be certain that the program of study is acceptable for this purpose. Applications must be completed and signed by the instructor and by the chairs of their special committees. They are available from, and must be returned to, the graduate assistant in 212 White Hall.

**GREEK**

See "Department of Classics."

**HEBREW**

See "Department of Near Eastern Studies."

**HIEROGLYPHIC EGYPTIAN**

See "Department of Near Eastern Studies."

**HINDI-URDU**

See "Department of Near Eastern Studies."

**HISTORY**

B. Strauss, chair; T. R. Travers, director of graduate studies; R. Craib, director of undergraduate studies; E. Baptist, V. Caron, H. Case, D. Chang, J. Chen, Z. Chen, S. Cochran, D. Corpis, P. Dear, O. Falk, M. C. Garcia, D. Ghosh, S. Greene, T. J. Hinrichs, K. Hirano, I. Hull, P. Hyams, S. Kaplan, D. Lacapra, F. Lovevall, T. Loos, D. Magaziner, R. Moore, J. Najemy, M. B. Norton, J. Parmenter, R. Polenberg, W. Provine, H. Rawlings, E. Rebillard, C. Robcis, A. Sachs, B. Strauss, E. Tagliacozzo, T. R. Travers, C. Verhoeven, M. Washington, R. Weil, J. Weiss. Emeritus: D. Baugh, S. Blumin, J. John, M. Kammen, W. LaFeber, C. Peterson, W. Pinter, J. Silbey, F. Somkin, B. Tierney

The popularity of history among Cornell students is due to its usefulness as preparation for graduate, professional, or law school and for any career that requires critical thinking and good writing; the reputation of the faculty for scholarship, teaching, and advising; and most of all, the intrinsic interest of the discipline. A wide variety of introductory and advanced courses is offered. The department is particularly strong in ancient, medieval, and modern European history; in American, Latin American, and Asian history; and in the history of science.

**Advanced Placement**

Students who pass the AP American and/or European History exam with a score of 4 or 5 have two options: (1) use the AP credits to fulfill the Arts and Sciences course credit requirements for graduation, or (2) take introductory American and/or European history courses.

**The Major**

To complete the history major, a student must fulfill the requirements listed below:

Entry requirement: completion of *any* two history courses excluding first-year writing seminars.

1. Take nine history department courses (for either 3 or 4 credits each), completing all of them with a grade of C or better. (Courses taken for entry may count toward fulfilling the major.)
2. Of the total nine courses:
  - a. four must be in courses designated as outside U.S. history and
  - b. three must be in courses designated as history before 1800.

(Courses that count toward the Arts and Sciences historical breadth requirement do not necessarily count toward the history major.)

Courses used to fulfill requirement (1) above may also be used to fulfill requirement (2), in respect both to (a) and (b) if applicable. A course in American history before 1800 may be used to fulfill requirement (2b). A course before 1800 in a field other than American history can be used toward fulfillment of both requirements (2a) and (2b).

A list of those courses that fulfill the "outside U.S." and "pre-1800" requirements is maintained by the history department. Only courses from that list fulfill these requirements.

3. Two of the nine courses must be seminars, of which one must be a 4000-level seminar. Starting fall 2008, HIST 4000, 4001, and 4002 may not be used to fulfill the 4000-level seminar requirement.

**Honors**

The history department offers an honors program for students who wish to research and write a thesis during their senior year. In addition to writing the thesis, honors students must maintain a 3.5 average in their history courses, take HIST 4000 Honors Proseminar during their junior year plus an additional 4000-level seminar, preferably during their junior year, and complete 10 courses in history (for 3 or 4 credits each). During the second semester of the sophomore year or early in the junior year, interested students should speak to a faculty member or faculty advisor about the honors program.

Before the beginning of the senior year, the candidate presents, in conversation or in writing, a thesis proposal to an appropriate member of the faculty. The faculty member who approves the proposal ordinarily becomes the thesis supervisor. If for any reason it is necessary to change supervisors, this arrangement should be confirmed no later than the fourth week after the beginning of the candidate's senior year.

Honors candidates should register in HIST 4001, a seminar course in honors research. Any exceptions to this must be approved by the Honors Committee. HIST 4001 is a 4-credit course that permits honors candidates to conduct research and to begin writing the honors essay in a seminar environment. At the end of the first semester of the senior year, as part of the requirements for HIST 4001, the student submits to the supervisor a 10- to 15-page overview, or, alternatively, a preliminary draft of some part of the thesis along with an outline of the whole to the instructor of 4001 and to the student's supervisor. HIST 4002 is a 4-credit seminar course that permits honors candidates to complete the honors essay and to demonstrate their understanding of the ways in which the themes explored in the thesis fit into a larger historical context.

The completed thesis is evaluated by three readers, including the supervisor and a first reader selected by the student, in consultation with his or her supervisor.

The text of the honors essay may not exceed 60 pages except by permission of the chair of the Honors Committee and the student's supervisor. Three copies are due during the third or fourth week of April. In May, each honors candidate is given an oral exam administered by the supervisor; exam focuses on the essay as well as the specific subfield of history in which the student has conducted research (e.g., Periclean Athens, 17th-century science, 19th-century American politics).

To qualify for a bachelor of arts degree with honors in history, a student must (1) sustain at least a 3.5 cumulative average in all history courses and (2) earn at least a cum laude grade on the honors essay and on the oral exam.

Note: History majors who wish *both* to study abroad (or in Cornell-in-Washington) and to enter the honors program should consult their advisors or the DUS as soon as possible after declaring a major. The department requires honors students to enroll in HIST 4000 before writing a thesis in their senior year, and only in exceptional cases are students allowed to enroll simultaneously in 4000 and 4001 (the first term of thesis-writing). So planning ahead is essential, especially if you intend to spend a full year abroad.

**Cornell in Washington Program.** History majors may apply to the Cornell in Washington program to take courses and undertake a closely supervised externship during a fall or spring semester.

**Category Key:** Courses in History are broken into different categories. To determine which category(s) a course falls in, please note the reference at the end of each course description. The key is as follows: AF = African History, AM = American History, AS = Asian History, CO = Comparative History, EA = Ancient European History, ER = Renaissance and Medieval History, EM = Modern European History, HS = History of Science, LA = Latin American History, NE = Near Eastern History, and HR = Honors, Reading, and Research.

### First-Year Writing Seminars

**[HIST 1103 First-Year Writing Seminar: Immigrant Experiences (also AAS 1103)]**

Spring. 3 credits. Next offered 2010–2011. D. Chang.]

**HIST 1141 First-Year Writing Seminar: Witchcraft in the Early Modern Atlantic World**

Spring. 3 credits. D. Corpis.

This seminar examines how European beliefs about witchcraft and magic were exported to Africa and the Americas in the period 1500–1800. We will explore how non-European concepts of the supernatural and magical intersected with European ideas during the initial stages of European colonial expansion. We will read a range of documents, including transcripts from witch trials, treatises about witchcraft, and books written by historians that interpret the historical meaning of witchcraft. Students will write a range of papers that aim to answer the following types of questions: Were witches figments of the European imagination? Why were the people accused of witchcraft more often women than men? Why did Europeans believe that Native Americans or Africans were likely to be involved in witchcraft? (EM)

**HIST 1230 First-Year Writing Seminar: Monstrous Births, Scheming Midwives: Childbirth in Europe 1500–1700**

Fall. 3 credits. Students should register through First-Year Writing Program. R. Weil.

When Mary Toft gave birth to rabbits in 1726, only some (but not all) doctors thought she was faking. Why was her story plausible, and how were the rabbits explained? Who controlled childbirth, and who had the power to decide whether a pregnancy was real? How did Mary Toft experience the event? Monstrous births, dishonest midwives, infanticide, and the powers of pregnant women were topics of fascination and debate in early modern Europe and America. In this course we use writings by midwives, medical treatises, letters, autobiographies, news reports, and trial records to examine practices and beliefs surrounding childbirth, and at how these in turn reflected concerns about property, sexuality, health, and religion. (EM)

**HIST 1240 Democracy and Its Discontents: Political Traditions in the United States (also AMST 1240) (HA-AS)**

Summer. 3 credits. N. Salvatore. For description, see AMST 1240. (AM)

**[HIST 1400 First-Year Writing Seminar: Kipling's India: Literature, Culture, History]**

Fall. 3 credits. Next offered 2010–2011. T. R. Travers.]

**[HIST 1401 First-Year Writing Seminar: From Lagos to New Orleans]**

Fall. 3 credits. Next offered 2011–2012. D. Magaziner.]

### Introductory Courses

**HIST 1510 Introduction to Western Civilization # (HA-AS)**

Summer and fall. 4 credits. D. Corpis. The West and its relations with the rest of the world are central topics today, but just what is the West and what is its history? This course

surveys the history of the West from remote antiquity to the 16th century. We will consider developments in technology, economy, politics, religious institutions and faiths, cultural media and social ideals. Together, these themes add up to civilization in the west. We will acquaint ourselves with these dimensions of the past while seeking to acquire the basic skills professional historians use to learn about this past. (ER) (EM)

**HIST 1511 Introduction to Western Civilization Part II # (HA-AS)**

Summer and spring. 4 credits. H. Case and T. R. Travers.

This course introduces students to the major social, intellectual, political, cultural, artistic, and literary events and movements that emerged in Europe since the Protestant Reformation. Readings will offer a variety of perspectives on topics such as: modernity and its meaning, revolution (industrial, social, political, cultural, artistic), imperialism, war, and the emergence of modern ideologies (capitalism, communism, liberalism, fascism). (ER) (EM)

**HIST 1530 Introduction to American History (also AMST 1530) # (HA-AS)**

Fall and summer. 4 credits. HIST 1530 is not a prerequisite for HIST 1531. M. B. Norton.

A survey of American history from the beginnings through the Civil War. Topics include cultural encounters in the age of Columbus, European colonization, the American Revolution, the early republic, westward expansion, and the origins and outcome of the Civil War. (AM)

**HIST 1531 Introduction to American History, 1865–Present (also AMST 1531) (HA-AS)**

Summer and spring. 4 credits. HIST 1530 is not a prerequisite for HIST 1531. A. Sachs. An introductory survey of the development of the United States since the Civil War. (AM)

**[HIST 1900 East Asia to 1800 (also ASIAN 1190) @ # (HA-AS)]**

Spring. 4 credits. Next offered 2010–2011. T. J. Hinrichs and K. Hirano.]

**HIST 1910 Introduction to Modern Asian History (also ASIAN 1191) @ (HA-AS)**

Fall. 4 credits. S. Cochran and E. Tagliacozzo.

The history of Asia–Pacific from the 19th century to the present, focusing on relations of India and Southeast Asia with each other and with the west. (AS)

**HIST 1950 Colonial Latin America (also AIS/LATA 1950) # @ (HA-AS)**

Fall. 4 credits. R. Craib.

This course is a general introduction to, and overview of, the history of Latin America from the initial “encounters” of peoples from Africa and Iberia with the “New World,” through the movements for independence in most of mainland Latin America in the early 19th century, to the collapse of Spanish colonial rule in the Pacific and Caribbean later that century. Through lectures, discussions and the reading of primary sources and secondary texts, the course examines the economic and social organization of the colonies, intellectual currents and colonial science, native accommodation and resistance to colonial rule, trade networks and imperial expansion, labor regimes and forms of economic production, and migration and movement. No prior knowledge of Latin American history is required. (LA)

**HIST 1960 Modern Latin America (also LATA 1960) @ (HA-AS)**

Spring. 4 credits. R. Craib.

An introductory survey of Latin American history from the early 19th century to the present with particular emphasis on processes of nation-state formation and the development of capitalist economies. Prominent themes include U.S.-Latin American Relations; neocolonialism; and radicalism and revolutionary movements, explored through a variety of primary and secondary sources. (LA)

**HIST 2001 Supervised Reading**

Fall or spring. 2 credits. Prerequisite: junior or senior standing. Permission of instructor required. Staff. (HR)

**Sophomore Seminars****HIST 2020 The Court, Crime, and the Constitution (also AMST 2022) (HA-AS)**

Fall. 4 credits. Limited to 15 students. Permission of instructor required. R. Polenber.

A seminar designed for sophomores but open to others as space permits. An examination of 20th-century Supreme Court decisions on such issues as the "third degree," illegal search and seizure, the exclusionary rule, and the right against self-incrimination. Special attention will be given to events leading up to *Miranda v. Arizona* in 1966, and to the ways the Court has modified that holding. (AM)

**[HIST 2030 Wilderness in North American History and Culture (also AMST 2033) # (HA-AS)**

Fall. 4 credits. Limited to 15 students. Priority given to sophomores. Students must commit to a weekend-long field trip in Sept. Next offered 2010-2011. A. Sachs.]

**[HIST 2050 The French Enlightenment: Methods, Ambitions, Contradictions # (HA-AS)**

Fall. 4 credits. Limited to 15 students. Next offered 2011-2012. S. Kaplan.]

**[HIST 2061 Small Wars in Greece and Rome (also CLASS 2686) # (HA-AS)**

Fall. 4 credits. Limited to 15 students. Next offered 2010-2011. B. Strauss.]

**[HIST 2070 The Occidental Tourist: Travel Writing and Orientalism in Southeast Asia (also ASIAN 2206/5507, HIST 5070) @ (CA-AS)**

Spring. 4 credits. Limited to 15 students. Prefer (but not required) that students have taken HIST 1910 or 3960. Letter grades only. Next offered 2010-2011. T. Loos.]

**[HIST 2081 Microhistory and the Margins of Early Modern European # (HA-AS)**

Spring. 4 credits. Limited to 15 students. Next offered 2011-2012. D. Corpis.]

**[HIST 2090 Seminar in Early American History (also AMST/FGSS 2090) # (HA-AS)**

Fall. 4 credits. Limited to 20 students. Next offered 2010-2011. M. B. Norton.]

**[HIST 2100 The Government of God # (HA-AS)**

Spring. 4 credits. Limited to 15 students. Next offered 2010-2011. O. Falk.]

**[HIST 2110 Black Religious Traditions: Sacred and Secular (also AMST/RELST 2110) (HA-AS)**

Spring. 4 credits. Limited to 15 students. Letter grades only. Next offered 2010-2011. M. Washington.

A survey on the black religious and spiritual traditions during bondage and the early years of freedom. This course will examine slave religion, the rise of black churches in the North, the formation of black churches after the Civil War, the independent church movement and the churches' role in social protest. (AM)

**[HIST 2120 African-American Women in the 20th Century (also AMST/FGSS 2120) (HA-AS)**

Spring. 4 credits. Limited to 15 students. Next offered 2010-2011. M. Washington.]

**[HIST 2141 Crusade, Heresy, and Inquisition in the Medieval Mediterranean # (HA-AS)**

Spring. 4 credits. Limited to 15 students. Next offered 2011-2012. P. Hyams.]

**[HIST 2161 Iran and the World @ (HA-AS)**

Fall. 4 credits. Next offered 2010-2011. J. Weiss.]

**[HIST 2170 Subversion as Foreign Policy (HA-AS)**

Fall. 4 credits. Next offered 2012-2013. T. Loos and R. Craib.]

**HIST 2180 Seminar on Genocide (HA-AS)**

Fall. 4 credits. Limited to 15 students. Permission of instructor required. I. Hull. This course examines some of the most terrible events of the 20th century, events such as the mass murders of the Armenians (1915-1918), the European Jews (1939-1945), the Cambodians (1975-1979), and the Hutus of Rwanda (1994). Students will apply historical methods to address such questions as the preconditions leading to genocide; the relation of genocide to war, revolution, nation-building, and ideology; the motivations of perpetrators; the limits to victim's efforts at self-defense; the responses of the regional or world community; and the legal and political consequences of such acts. (EM)

**[HIST 2190 Women and Gender in South Asia: State and Society from Pre-Colonial to Post-Colonial (also ASIAN 2219, FGSS 2190) @ (HA-AS)**

Fall. 4 credits. Limited to 15 students. Next offered 2010-2011. D. Ghosh.]

**[HIST 2200 Travel in American History and Culture (also AMST 2200) (HA-AS)**

Spring. 4 credits. Limited to 15 students. Next offered 2010-2011. A. Sachs.]

**[HIST 2210 Pop Culture in China (also ASIAN 2210) @ (HA-AS)**

Spring. 4 credits. Next offered 2010-2012. T. J. Hinrichs.]

**[HIST 2211 Seminar: The Blues and American Culture (also AMST 2211) (HA-AS)**

Fall. 4 credits. Limited to 15 students. Permission of instructor required. Next offered 2010-2011. R. Polenber.]

**[HIST 2230 International Law (HA-AS)**

Spring. 4 credits. Limited to 15 students. Next offered 2010-2011. I. Hull.]

**[HIST 2250 The U.S.-Mexico Border: History, Culture, Representation (also AMST/LSP 2250) (CA-AS)**

Fall. 4 credits. Next offered 2010-2011. M. C. Garcia.]

**[HIST 2261 Society and Religion in China (also ASIAN 2226) @ # (HA-AS)**

Fall. 4 credits. Limited to 15 students. Next offered 2010-2011. T. J. Hinrichs.]

**[HIST 2271 Family Life in Renaissance Italy (also ITAL 2270) # (HA-AS)**

Spring. 4 credits. Limited to 15 students. Next offered 2010-2011. J. Najemy.]

**HIST 2272 Study of Terrorism (HA-AS)**

Fall. 4 credits. C. Verhoeven.

This seminar examines approaches to the study of European terrorism. By the end of the semester, students should have a grasp of (1) the history of terrorism as it developed over the course of the 19th and early 20th centuries (learning in the process how to distinguish terrorism from other forms of modern political violence, e.g. partisan warfare, state terror, etc.) and (2) the ways terrorism has been perceived, presented, and remembered by contemporaries and subsequent generations. Questions, therefore, will include the following: How has terrorism been approached by political theory, history, literature, etc.? How have these approaches constructed terrorism as an object of scientific investigation? How were terrorists perceived and represented by their contemporaries (in the press, literature, art)? How did terrorists represent themselves (in political pamphlets, autobiographies, fiction)? Readings will include archival materials, manifestos, memoirs, and novels, as well as classic pieces of political writing (e.g. Lenin, Schmitt, Arendt). (EM)

**[HIST 2280 Indian Ocean World (also ASIAN 2228) @ # (HA-AS)**

Spring. 4 credits. Limited to 15 students. Next offered 2010-2011. E. Tagliacozzo.]

**[HIST 2290 Jefferson and Lincoln: American Ideas about Freedom (HA-AS)**

Spring. 4 credits. Limited to 15 students. Priority given to underclassmen. Next offered 2010-2011. E. Baptist.]

**[HIST 2300 Seminar in History and Memory @ (HA-AS)**

Fall. 4 credits. Limited to 15 students. Next offered 2010-2011. J. V. Koschmann.]

**HIST 2308 Caribbean History (also ASRC 2308) (HA-AS)**

Fall. 3 credits. J. Byfield.

For description, see ASRC 2308. (AF)

**[HIST 2321 Introduction to Military History # (HA-AS)**

Fall. 4 credits. Next offered 2011-2012. B. Strauss.]

**HIST 2330 Origins of the Social (also GOVT 2729) (HA-AS)**

Spring. 4 credits. Limited to 15 students. Permission of instructor required. C. Robcis.

Political philosophy has often been preoccupied with the problem of "the social": how is society born? How do individuals come together and what allows gives their actions and discourses an overall framework? How does a population become a community governed by explicit and implicit rules, norms, mechanisms of inclusion and exclusion? And

how does this social formation address questions of power and law, state and nation, equality and justice, identity and difference, citizenship and civility? This seminar provides an introduction to some of the major figures of European intellectual history who have attempted to think and rethink this problem of "the social." The class will focus on the close reading and the historicization of each text. Readings will include Hobbes, Locke, Rousseau, Marx, Stuart Mill, Durkheim, Mauss, Freud, Levi-Strauss, Derrida, Gayle Rubin, Monique Wittig, Carole Pateman, Judith Butler. (EM)

**[HIST 2331 French Thought after May '68 (also COML 2331/GOVT 2626) (HA-AS)]**

Spring. 4 credits. Next offered 2010–2011. C. Robcis.]

**[HIST 2340 Seminar: Gender in Early Modern Europe (also FGSS 2340) # (CA-AS)]**

Fall. 4 credits. Limited to 15 students. Designed for underclassmen but open to all students. Permission of instructor required. Next offered 2010–2011. R. Weil.]

**[HIST 2350 Antisemitism and the Crisis of Modernity (also JWST 2350) (HA-AS)]**

Fall. 4 credits. Limited to 15 students. Next offered 2010–2011. V. Caron.]

**[HIST 2360 Native Peoples of the Northeast (also AMST 2360) # (HA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2010–2011. J. Parmenter.]

**HIST 2380 Families in China since the 17th Century (also ASIAN 2238) @ (HA-AS)]**

Fall. 4 credits. S. Cochran. It is often said that "traditional familism" has always provided the bedrock of Chinese society and continues to do so today. This course considers how Chinese families have coped with powerful forces for change—social upheavals, military conflicts, political revolutions, and economic transformations. Readings are all in English and include translations of letters, diaries, memoirs, and novels as well as historical interpretations of family life. (AS)

**[HIST 2390 Seminar in Iroquois History (also AIS/AMST 2390) # (HA-AS)]**

Fall. 4 credits. Limited to 15 students. Next offered 2011–2012. J. Parmenter.]

**[HIST 2410 Riot and Revolution in 19th-Century Africa: The Birth of the Modern (also ASRC 2303) @ # (HA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2010–2011. S. Greene.]

**[HIST 2411 Enslaved! Then and Now # (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012. S. Greene.]

**HIST 2412 The White Image in the Black Mind (also ASRC 2307) @ (HA-AS)]**

Fall. 4 credits. S. Greene. The course will explore a variety of historical, literary, and cinematic texts, produced by Africans, Asians and African Americans, that reveal as much about the producers of the texts as they do about "The European." (AF)

**[HIST 2420 Religion and Politics in American History: From J. Winthrop to R. Reed (also AMST/RELST 2420) (HA-AS)]**

Fall. 4 credits. Limited to 15 students. Permission of instructor required. Next offered 2010–2011. R. L. Moore.]

**HIST 2430 History of Things (HA-AS)]**

Spring. 4 credits. Limited to 15 students. E. Tagliacozzo.

This course will examine material culture as an avenue of looking at history in broad and comparative ways. The course is global in shape and unrestricted temporarily; it asks how "things" make up our world, and how they affect our lives historically and help shape the human story. Glass, dyes, opium, salt, coal, sugar, tea, and even shrunken heads will all be considered. (CO)

**HIST 2440 The United States in Vietnam (also AMST 2440) (HA-AS)]**

Spring. 4 credits. Limited to 15 students. F. Logevall.

The long U.S. involvement in Vietnam has been the subject of endless controversy and scholarly analysis in recent decades, and the debate shows little sign of ending anytime soon. This seminar will look closely the origins and course of the war, and at its impact on American politics and society. Though our focus will be on the U.S. side of the story, some attention will be paid also to Vietnamese perspectives. Course materials will include recent monographs as well fictional accounts, primary sources, and occasional films. (AS)

**HIST 2461 Reading and Writing the African Diaspora (also ASRC 2309) @ (HA-AS)]**

Spring. 4 credits. D. Magaziner.

This sophomore seminar considers the history, culture, politics, and imagination of the African diaspora from the era of the Atlantic slave trade to the present day. We begin with some foundational questions relating to the Middle Passage, the developed of African-derived communities in the Atlantic world, and the still-potent memories of enslavement. From there we move on to examine the political direction of global African identity in the 19th and 20th centuries, considering such issues as colonization, returnees, conversion to Christianity, anti-imperialism, pan-Africanism, racism, development and health, and the global cultural politics of black nationalism during the Cold War. Students will read a variety of primary and secondary works, as well as a number of novels, over the course of the semester. In addition, each student will be responsible for organizing and leading a class session and will develop an in-depth research paper on one of the course's issues. (AF)

**[HIST 2470 The Age of Charlemagne (HA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2010–2011. P. Hyams.]

**[HIST 2480 Ghosts and Legacies: The Construction of Public Memory (HA-AS)]**

Fall. 4 credits. Limited to 15 students. Next offered 2011–2012. J. Weiss.]

**[HIST 2491 French Social Thought from Rousseau to Foucault (HA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2010–2011. C. Robcis.]

**Lecture Courses**

**HIST 2500 Technology in Society (also ECE/ENGRG 2500, STS 2501) (HA-AS)]**

Fall. 3 credits. R. Kline. For description, see ENGRG 2500. (HS)

**HIST 2510 Race and Popular Culture (also AMST 2501) (HA-AS)]**

Fall. 4 credits. M. Washington. This course examines the intersection of race and popular culture in America, historically and thematically, focusing primarily on the black-white experience. Genres of minstrelsy, radio, film, and music provided forms of entertainment that were also mediums through which the racial "other" (black in this case) was often ridiculed and denigrated in order to promote and sustain "whiteness." However some appropriation of the "other" might involve genuine regard/appreciation of diverse cultural forms. This course explores the intersection of racial imagery, racial stereotypes, cultural borrowing, and the cultural diffusion in 19th- and 20th-century America. (AM)

**HIST 2520 Modern East-Central Europe (HA-AS)]**

Fall. 4 credits. H. Case. This course covers the key events, political ideologies, social and cultural trends, and definitions of East-Central Europe from 1848 to the present. Themes will include experiences of empire, war, and revolution, the rise of nationalism, liberalism, fascism, and communism, totalitarian regimes, dissident movements, the post-communist transition, the experiences and roles of women in the region's history, the fate of minorities and multi-national states, European integration, and the future of the region. (EM)

**HIST 2530 Introduction to Islamic Civilization (also NES/RELST 2655) @ # (HA-AS)]**

Fall. 3 credits. D. Powers. For description, see NES 2655. (NE)

**HIST 2540 African Encounters with Colonialism (also ASRC 2304) @ (HA-AS)]**

Spring. 4 credits. D. Magaziner. This course covers African history from roughly the 1840s to the present. It moves thematically from the Indian Ocean trade and economic relationships with Europe associated with the decline of the slave trade to the rise of "formal" imperialism, the construction and maintenance of the imperial states, decolonization, and the variety of post-colonialisms in different parts of the continent. Along the way it considers religion, popular culture, and different ways in which the West has attempted to understand Africa. (AF)

**HIST 2550 The Past and Present of Pre-Colonial Africa (also ASRC 2306) @ (HA-AS)]**

Spring. 4 credits. S. Greene. How has Africa's pre-colonial past influenced current events in Africa and elsewhere? To answer this question, this course explore the pre-19th-century histories of four different cultural areas in Africa (e.g., Ancient Egypt, the West African coast). Using both ancient and more recent oral traditions, travelers' accounts and visual images, we link these histories to current debates about the role of history in contemporary politics, the significance of race, class, and gender in times past and present, and the role of Africa in world affairs. (AF)

**[HIST 2560 War and Peace in Greece and Rome (also CLASS 2680) # (HA-AS)**

Spring, 4 credits. Next offered 2010-2011. B. Strauss.]

**HIST 2571 China Encounters the World (also ASIAN 2257, CAPS 2570) @ (HA-AS)**

Fall, 4 credits. J. Chen.

This is a lecture and discussion course focusing on how China has encountered the world since the 17th century, with an emphasis on the late 19th and 20th centuries. In particular, it will analyze the age-old Chinese "Central Kingdom" conception and how the conception was challenged during modern times as the result of Western and Japanese incursion and China's inability to deal with the consequences of the incursion. It will further analyze the impact of the Chinese "victim mentality" in order to pursue a deeper understanding of why radical revolutions have dominated China's modern history. While the emphasis of this course is China's external relations, foreign policy issues will be examined in the context of China's political, economic and social developments in broader terms. The course's purpose is not just to impart information but also to cultivate a basic understanding of the significance of the Chinese experience in the age of worldwide modernization. Grade in this class will be calculated on the basis of class participation, quizzes, midterm and final exams, and one essay assignment. (AS)

**HIST 2580 Periclean Athens (also CLASS 2676) # (HA-AS)**

Fall, 4 credits. H. Rawlings.

For description, see CLASS 2676. (EA)

**[HIST 2590 The Crusades # @ (HA-AS)**

Spring, 4 credits. Next offered 2010-2011. P. Hyams.]

**HIST 2600 Latinos in the United States: Colonial to 1898 (also AMST 2599, LSP 2600) # (HA-AS)**

Fall, 4 credits. M. C. Garcia.

This course examines the history of Latino populations in the United States from the Colonial period to 1898: how Mexican American, Puerto Ricans, Cubans, and other Latino populations emerged, and how they responded to and reshaped the societies in which they lived. Much of the course focuses on the "facts" of history (e.g. the Latino experience during key moments in American History such as the Texas revolution, the conquest of the West, the Spanish-American war, etc.) but the goal of the course is to help students learn to assess evidence, and conflicting interpretations. Readings will draw from political, social and cultural history. (AM)

**[HIST 2610 Latinos in the United States: 1898 to the Present (also AMST/LSP 2610) # (HA-AS)**

Spring, 4 credits. Next offered 2010-2011. M. C. Garcia.

This course examines the history of Latino populations in the United States since 1898: how Mexican American, Puerto Ricans, Cubans, and other Latino populations emerged, and how they responded to and reshaped the societies in which they lived. Much of the course focuses on the "facts" of history (e.g. the Latino experience during key moments in American History such as the Great Depression, World War II, the Civil Rights Movement, etc.) but the goal of the course is also to help students learn to assess evidence and conflicting interpretations.

Readings will draw from political, social and cultural history. (AM)

**[HIST 2620 The Middle Ages: Introduction and Sampler # (CA-AS)**

Summer and fall, 4 credits. Next offered 2011-2012. P. Hyams.]

**HIST 2640 Introduction to Asian American History (also AAS 2130, AMST 2640) (HA-AS)**

Fall, 4 credits. D. Chang.

An introductory history of Chinese, Japanese, Asian Indians, Filipinos, and Koreans in the United States from the mid-19th century to the 1990s. Major themes include racism and resistance, labor migration, community formation, imperialism, and struggles for equality. (AM)

**[HIST 2650 Ancient Greece from Homer to Alexander the Great (also CLASS 2675) # (HA-AS)**

Fall, 4 credits. Open to freshmen. Next offered 2010-2011. B. Strauss.]

**[HIST 2660 Introduction to Native American History (also AIS/AMST 2660) (HA-AS)**

Spring, 4 credits. Next offered 2010-2011. J. Parmenter.]

**[HIST 2670 History of Rome I (also CLASS 2681) # (HA-AS)**

Fall, 4 credits. Next offered 2010-2011. E. Rebillard.]

**[HIST 2671 History of Rome II (also CLASS 2682) # (HA-AS)**

Spring, 4 credits. HIST 2670 is not a prerequisite for HIST 2671. Next offered 2010-2011. E. Rebillard.]

**HIST 2674 History of the Modern Middle East in the 19th-20th Century (also GOVT 2747, JWST/NES 2674) @ # (HA-AS)**

Fall, 4 credits. Z. Fahmy.

For description, see NES 2674. (NE)

**[HIST 2691 Holy War, Crusade, and Jihad in Judaism, Christianity, and Islam (also COML 2310, JWST/NES 2651) @ # (HA-AS)**

Fall, 3 credits. Next offered 2010-2011. R. Brann.]

**HIST 2699 History of the Ottoman Empire, 1300-1922 (also NES 2699)**

Spring, 3 credits. A. Karakaya-Stump. For description, see NES 2699. (NE)

**[HIST 2711 Politics of Violence in 20th-Century Europe (also GOVT 2716) (HA-AS)**

Spring, 4 credits. Next offered 2010-2011. H. Case.]

**HIST 2720 The Atlantic World from Conquest to Revolution (also AMST 2720) # (HA-AS)**

Spring, 4 credits. M. B. Norton and R. Weil.

After Europeans first crossed the Atlantic in the late 15th century, the ocean became a vast highway linking Spain, France, Britain and the Netherlands to the Americas and Africa. In this course we will examine the lives of the men and women who inhabited this new world from the time of Columbus to the 18th century revolutions in Haiti and North America. Topics will include the destruction and reconfiguration of indigenous societies; slavery and other forms of servitude; the resistance, rebellion and accommodation of indigenous groups and slaves; religion; and the construction of gender, race and ethnicity.

Emphasis will be on reading and analyzing primary sources. (CO)

**[HIST 2730 Women in American Society, Past and Present (also AMST/FGSS 2730) # (HA-AS)**

Spring, 4 credits. Next offered 2010-2011. M. B. Norton.]

**[HIST 2740 Foodways: A Social History of Food and Eating # (HA-AS)**

Fall, 4 credits. Next offered 2010-2011. S. Kaplan.]

**HIST 2744 Archaeology of Greek Private Life (also ARKEO/CLASS 2744, ARTH 2222) # (CA-AS)**

Spring, 3 credits. K. Bowes.

For description, see CLASS 2744. (EA)

**HIST 2750 History of Modern South Asia (also ASIAN 2275) @ # (HA-AS)**

Fall, 4 credits. D. Ghosh.

This introductory course is a broad survey of the history of the Indian subcontinent from the end of the Mughal empire around 1700 to the present. This course is framed by two major transitions: from a Mughal government to British colonial government, and from colonialism to several postcolonial states. Prominent themes in the course include the emergence of religious and regional identities, ethnic violence, social reform and the "woman question," deindustrialization, and nationalism. Using primary sources and scholarly articles by a varied group of scholars, this course questions whether there is such a thing as one history of South Asia. (AS)

**[HIST 2770 Getting Medieval I: The Early Middle Ages # (HA-AS)**

Fall, 4 credits. Prerequisite for HIST 2771. Next offered 2010-2011. O. Falk.]

**[HIST 2771 Getting Medieval II: The Age of Cathedral, Cartel, and Crossbow # (HA-AS)**

Fall, 4 credits. Prerequisite: HIST 2620/HIST 2770 or permission of instructor. Next offered 2010-2011. O. Falk.]

**HIST 2791 International Humanitarianism @ (HA-AS)**

Spring, 4 credits. J. Weiss.

This course studies international humanitarian and human rights activities from their origins to the present. The ideological and social roots of humanitarian thought and action receive attention, as does the often-overlapping, sometimes conflictual relationship between humanitarianism and human rights advocacy. Case studies will include the anti-slavery movement, the activities of faith-based groups, biographical studies of pioneering individuals, and the international response to various genocides. (EM)

**[HIST 2810 Science in Western Civilization: Medieval and Early Modern Europe up to Isaac Newton (also STS 2811) # (HA-AS)**

Fall, 4 credits. HIST 2810 is not a prerequisite for HIST 2820. Next offered 2010-2011. P. Dear.]

**HIST 2820 Science in Western Civilization: Newton to Darwin; Darwin to Einstein (also STS 2821) # (HA-AS)**

Spring, 4 credits. HIST 2810 is not a prerequisite for HIST 2820. S. Seth.

This course aims to make comprehensible both to science majors and to students of the humanities the historical structure and development of modern science and to show

sciences as cultural phenomena. Changing perceptions of nature and human knowledge from Greek Antiquity to the 20th century form the framework for current Western views of the world, while the roots of the present-day dominance of "science" as a symbol of progress and modernity lie in an alliance between knowledge of nature and power over nature that took shape in the 19th century after a long period of emergence. This course covers the 18th, 19th, and early 20th centuries. (HS)

**[HIST 2830 English History From Anglo-Saxon Times to 1485 # (HA-AS)]**  
Spring, 4 credits. Next offered 2012–2013.  
P. Hyams.]

**[HIST 2850 From Medievalism to Modernity: The History of Jews in Early Modern Europe, 1492 to 1789 # (HA-AS)]**  
Fall, 4 credits. Next offered 2010–2011.  
V. Caron.]

**[HIST 2861 History of Zionism and the Birth of Israel @ (HA-AS)]**  
Spring, 4 credits. Next offered 2011–2012.  
V. Caron.]

**HIST 2870 Evolution (also BIOEE 2070, STS 2871) (PBS)**  
Fall, 3 credits. W. Provine.  
For description, see BIOEE 2070. (HS)

**HIST 2880 Ancient Egyptian Civilization (also NES/JWST/ARKEO 2668) @ # (HA-AS)]**  
Spring, 3 credits. C. Monroe.  
For description, see NES 2668. (NE)

**[HIST 2890 The U.S.–Vietnam War (also ASIAN 2298) @ (HA-AS)]**  
Fall, 3 credits. Next offered 2011–2012.  
F. Logevall.]

**HIST 2891 Script and Culture in East Asia (also ASIAN 2209) @ # (LA-AS)]**  
Fall, 3 credits. B. Rusk.  
For description, see ASIAN 2209. (AS)

**HIST 2910 Modern European Jewish History, 1789 to 1948 (also JWST 2900, NES 2620) (HA-AS)]**  
Fall, 4 credits. S. Gutman.  
Jewish life in Europe experienced a profound transformation as a result of the process of Jewish emancipation which began at the end of the 18th century. While emancipation offered Jews unprecedented social, economic and political opportunities, it also posed serious challenges to traditional Jewish life and values by making available new avenues of integration. This course will examine the ways in which Jewish and non-Jewish society responded to these new developments from the 18th century Enlightenment to the post–World War II era. Topics will include Jewish responses to emancipation, including assimilation and new varieties of religious accommodation; the development of modern antisemitism; the rise of Zionism and the creation of the state of Israel; the modernization of Eastern European Jewry; the impact of mass immigration; and the Nazi era. (EM)

**HIST 2920 Inventing an Information Society (also AMST/ECE/ENGRG 2980, STS 2921) (HA-AS)]**  
Spring, 3 credits. R. Kline.  
For description, see ENGRG 2980. (AM)

**[HIST 2940 History of China in Modern Times (also ASIAN 2294, CAPS 2940) @ (HA-AS)]**  
Fall, 4 credits. Next offered 2010–2011.  
S. Cochran.]

**[HIST 2960 East Asian Martial Arts (also ASIAN 2290) @ (HA-AS)]**  
Fall, 4 credits. Next offered 2011–2012.  
T. J. Hinrichs.]

**HIST 2970 Imperial Russia: Peter the Great to the Revolution of 1917 # (HA-AS)]**  
Fall, 4 credits. C. Verhoeven.  
This course surveys the history of Imperial Russia, with an emphasis on the empire's recurrent experience of revolutionary change in the political, socioeconomic, and cultural spheres. Topics include such remodeling projects as Peter the Great's westernization and Alexander II's "Great Reforms"; military upheavals like 1812, 19th-century imperialist warfare, the Revolution of 1905, World War I, and the Revolution of 1917; late, and therefore very rapid industrialization and urbanization; and the attempts by successive generations of rebels and revolutionaries to put their political theory into practice. A good deal of class readings will be drawn from Russia's rich literary heritage, especially its "golden age" (e.g., Tolstoy, Dostoevsky). (EM)

**[HIST 2971 Politics, Culture, and Society in Early Modern Europe, 1450–1789 # (HA-AS)]**  
Fall, 4 credits. Next offered 2010–2011.  
D. Corpis.]

**[HIST 2981 Power, Culture, and Heterogeneity in Premodern Japan, 1200–1800 (also ASIAN 2295) @ # (HA-AS)]**  
Fall, 4 credits. Next offered 2010–2011.  
K. Hirano.]

**HIST 3002 Supervised Research**  
Fall and spring, 3 or 4 credits. Prerequisite: junior or senior standing. Permission of instructor required. Staff. (HR)

**[HIST 3030 African–American Women in Slavery and Freedom (also AMST 3030, FGSS 3070) # (HA-AS)]**  
Spring, 4 credits. Letter grades only. Next offered 2010–2011. M. Washington.]

**[HIST 3050 Britain, 1660 to 1815 # (HA-AS)]**  
Fall, 4 credits. Next offered 2010–2011.  
R. Weil.]

**HIST 3051 Milton and the English Revolution (also ENGL 3290) # (LA-AS)]**  
Fall, 4 credits. R. Weil and R. Kalas.  
For description, see ENGL 3290. (EM)

**[HIST 3060 Modern Mexico: From Independence to the Zapatistas @ (HA-AS)]**  
Spring, 4 credits. Next offered 2010–2011.  
R. Craib.]

**[HIST 3070 British History, 1760–1870 # (HA-AS)]**  
Fall, 4 credits. Next offered 2010–2011.  
T. R. Travers.]

**[HIST 3080 History of Post-War Germany (1945 to Present) (HA-AS)]**  
Fall, 4 credits. Next offered 2011–2012.  
I. Hull.]

**[HIST 3090 History and Geographical Imagination @ # (HA-AS)]**  
Fall, 4 credits. Next offered 2011–2012.  
R. Craib.]

**[HIST 3101 British History, 1870–Present (HA-AS)]**  
Spring, 4 credits. Next offered 2010–2011.  
T. R. Travers.]

**[HIST 3130 U.S. Foreign Relations, 1750–1912 (also AMST 3130) # (HA-AS)]**  
Fall, 4 credits. Next offered 2010–2011.  
F. Logevall.]

**HIST 3140 History of American Foreign Policy, 1912 to the Present (also AMST/CAPS 3140) (HA-AS)]**  
Spring, 4 credits. F. Logevall.  
Students examine the emergence of the United States as a world power in the 20th century. The course focuses on the domestic sources of foreign policy and the assumptions of the major policy makers (Wilson through Clinton). Important themes include the American response to a revolutionary world since 1912, the role of American racial values in the making of foreign policy, and the increasingly dominant role of the president in the making of U.S. foreign policy. (AM)

**HIST 3150 Environmental History: The United States and Beyond (also AMST 3150) # (HA-AS)]**  
Spring, 4 credits. A. Sachs.  
This lecture course serves as an introduction to the historical study of humanity's interrelationship with the natural world. Environmental history is a relatively new and quickly evolving field, taking on increasing importance as the environment itself becomes increasingly important in world affairs. During this semester, we'll examine the sometimes unexpected ways in which "natural" forces have shaped human history (the role of germs, for instance, in the colonization of North America); the ways in which human beings have shaped the natural world (through agriculture, urbanization, and industrialization, as well as the formation of things like wildlife preserves); and the ways in which cultural, scientific, political, and philosophical attitudes toward the environment have changed over time. This is designed as an intensely interdisciplinary course: we'll view history through the lenses of ecology, literature, art, film, law, anthropology, and geography. Our focus will be on the United States, but, just as environmental pollutants cross borders, so too will this class, especially toward the end, when we attempt to put U.S. environmental history into a geopolitical context. (AM)

**HIST 3160 American Political Thought: From Madison to Malcolm X (also AMST/GOVT 3665) # (HA-AS)]**  
Fall, 4 credits. I. Kramnick.  
For description, see GOVT 3665. (AM)

**[HIST 3170 British–French North America (also AMST 3170) # (HA-AS)]**  
Fall, 4 credits. Next offered 2010–2011.  
J. Parmenter.]

**[HIST 3180 American Constitutional Development (also AMST 3180) (HA-AS)]**

Fall. 4 credits. Not open to freshmen. Next offered 2010-2011. R. Polenberg.]

**[HIST 3191 Martial Arts and Society and Religion (also ASIAN 3391) @ (HA-AS)]**

Fall. 4 credits. Next offered 2011-2012. T. J. Hinrichs.]

**[HIST 3200 The Viking Age # (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011. O. Falk.]

**[HIST 3210 Colonial North America to 1763 (also AMST 3210) # (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011. M. B. Norton.]

**[HIST 3240 Varieties of American Dissent, 1880-1900 (also AMST 3240) (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012. N. Salvatore.]

**[HIST 3250 Age of the American Revolution, 1754 to 1815 (also AMST 3250) # (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011. M. B. Norton.]

**[HIST 3251 History of the Family in the U.S. (also AMST/FGSS 3251) (HA-AS)]**

Spring. 4 credits. T. Carroll.

The family is at the center of contemporary political debates involving social policies, gender roles, citizenship, marriage, and the role of the state. Politicians and commentators frequently invoke a mythical American family, one that is conflict-free, independent, and unchanging. These idealized depictions mask a far more complicated and richer historical reality of the development of family structures in the U.S. This course will examine both the diverse experiences of actual families in the American past, and changing ideologies about the family and its social role. We will examine in particular immigration, reproduction and childrearing, sexuality, work, leisure, and consumption. We will maintain a sustained focus on changing constructions of race, ethnicity, gender and class and the interactions of these social relations with social structures including the labor and housing markets, immigration and naturalization law, and the educational system. Through this exploration, we will see both how social structures including the family shaped individuals' experiences, and how historical actors responded to and changed these structures. We will also gain a better understanding of what's at stake in today's debates about the family, and will conclude by asking how contemporary social policies could better address the needs of all families. Students will have the opportunity to write a family history of their own, or to complete an alternative research assignment. (AM)

**[HIST 3260 History of the Modern British Empire (HA-AS)]**

Fall. 4 credits. T. R. Travers.

A survey of British imperial history from the late 18th century until the period after World War II. Major themes include: the causes of imperial expansion, ideologies of empire, the nature of imperial power, the relationship between imperialism and globalization, and the process of decolonization. Using essays, diaries, newspapers, fiction, and film, students seek to understand both the experiences of particular colonies and the consequences of empire for Britain itself. (EM)

**[HIST 3270 The Old South (also AMST 3270) # (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012. E. Baptist.]

**[HIST 3280 Construction of Modern Japan (also ASIAN 3328) @ # (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011. J. V. Koschmann.]

**[HIST 3290 Physical Sciences in the Modern Age (also STS 3301) (HA-AS)]**

Fall. 4 credits. S. Seth.

For description, see STS 3301. (HS)

**[HIST 3300 Japan from War to Prosperity (also ASIAN 3335) @ (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012. J. V. Koschmann.]

**[HIST 3303 History and Popular Culture in Africa (also ASRC 3303)]**

Spring. 3 credits. J. Byfield.

For description, see ASRC 3303. (AF)

**[HIST 3304 African American History: From the Age of Booker T. Washington to the Age of Barack Obama (also ASRC 3304)]**

Spring. 3 credits. R. Harris.

For description, see ASRC 3304. (AF)

**[HIST 3310 Causes of the American Civil War, 1815 to 1860 (also AMST 3310) # (HA-AS)]**

Fall. 4 credits. Next offered 2011-2012.

E. Baptist.]

**[HIST 3340 19th-Century European Culture and Intellectual History (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011.

C. Robcis.]

**[HIST 3341 20th-Century European Culture and Intellectual History (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011.

C. Robcis.]

**[HIST 3391 Seminar on American Relations with China (also ASIAN 3305, CAPS 3000) (HA-AS)]**

Fall. 4 credits. Offered in the Cornell in Washington Program. R. Bush.

For description, see CAPS 3000. (AM) (AS)

**[HIST 3400 Recent American History, 1925 to 1965 (also AMST 3400) (HA-AS)]**

Fall. 4 credits. Not open to freshmen. Next offered 2011-2012. R. Vanderlan.]

**[HIST 3410 Recent American History, 1965 to the Present (also AMST 3410) (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012. Staff.]

**[HIST 3420 History of Modern South Asia, 1700 to 1947: From the Mughals to Midnight (also ASIAN 3342) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011.

D. Ghosh.]

**[HIST 3430 American Civil War and Reconstruction, 1860 to 1877 (also AMST 3430) # (HA-AS)]**

Fall. 4 credits. E. Baptist.

A survey of the turning point of U.S. history: The Civil War (1861-1865) and its aftermath, Reconstruction (1865-1877). We will look at the causes, the coming, and the conduct, of the war, and the way in which it became a war for freedom. We will then follow the cause of freedom through the greatest slave

rebellion in American history, and the attempts by formerly enslaved people to make freedom real in Reconstruction. And we will see how Reconstruction's tragic ending left questions open that are still not answered in U.S. society and politics. (AM)

**[HIST 3431 Obama and Lincoln (also AMST 3431) (HA-AS)]**

Fall. 4 credits. E. Baptist.

Constant comparisons link the x and y presidents of the U.S., Abraham Lincoln and Barack Obama. This course will use the histories of the eras in which the two became president, and their administrations (in the case of Obama, his administration so far) in order to teach students about the following topics: the history of American political campaigns, the history the American party system, the uses of American political rhetoric in the speeches and texts of two acknowledged masters of the genre, the question of how we measure ethics in politics and the presidency, the role of race and the history of slavery in the context of American national self-definition, and the changing history of the presidency itself. (AM)

**[HIST 3440 South Asia and the Early Modern World (also ASIAN 3369) @ # (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012.

D. Ghosh.]

**[HIST 3450 Cultural and Intellectual Life of 19th-Century Americans (also AMST 3450) # (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011.

A. Sachs.]

**[HIST 3460 The Modernization of the American Mind (also AMST/RELST 3460) (HA-AS)]**

Fall. 4 credits. R. L. Moore.

American thought and culture from 1890 to the present. Emphasizes the intellectual impact of major political and economic events and the adaptation of social ideas and values to new conditions. (AM)

**[HIST 3470 Asian American Women's History (also AAS/AMST/FGSS 3470) (CA-AS)]**

Spring. 4 credits. D. Chang.

This course examines the experiences and representations of Asian American women from the mid-19th century to the present. It explores the lives and contexts of immigrant women and of women both in the U.S. questions of identity and power are at the heart of this course as we explore the intertwined nature of race, gender, and nation. (AM)

**[HIST 3481 Modern France: 1870 to the Present (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012.

C. Robcis.]

**[HIST 3490 Renaissance England, 1485 to 1660 # (HA-AS)]**

Fall. 4 credits. Next offered 2011-2012.

R. Weil.]

**[HIST 3500 The Italian Renaissance # (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011.

J. Najemy.]

**[HIST 3510 Machiavelli # (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011.

J. Najemy.]

**[HIST 3520 20th-Century East Asian-American Relations (also CAPS 3520) @ (HA-AS)**  
Spring. 4 credits. Next offered 2010–2011.  
J. Chen.]

**[HIST 3560 The Era of the French Revolution and Napoleon # (HA-AS)**  
Fall. 4 credits. Next offered 2010–2011.  
S. Kaplan.]

**[HIST 3570 Constructing State and Civil Society: Germany 1648–1870 # (HA-AS)**  
Fall. 4 credits. Next offered 2011–2012.  
I. Hull.]

**[HIST 3580 Survey of German History, 1890 to the Present (HA-AS)**  
Spring. 4 credits. For freshmen, permission of instructor required. Next offered 2011–2012.  
I. Hull.]

**[HIST 3611 Bakumatsu-Ishin: Conflicts and Transformations in Early Modern Japan, 1700–1890 (also ASIAN 3611) @ (HA-AS)**  
Fall. 4 credits. Next offered 2011–2012.  
K. Hirano.]

**[HIST 3619 Near Eastern Christianities, 50–650 CE (also NES/JWST/RELST 3619) @ # (HA-AS)**  
Spring. 4 credits. Next offered 2010–2011.  
K. Haines-Eitzen.]

**HIST 3625 Christianization/Roman World (also CLASS 3625) @ # (HA-AS)**  
Fall. 4 credits. E. Rebillard.  
For description, see CLASS 3625. (EA)

**[HIST 3630 Archaeology, Ethics, and Nationalism (also ARKEO/CLASS 3730) # (CA-AS)**  
Spring. 3 credits. Next offered 2010–2011.  
K. Bowes.]

**[HIST 3631 History of Battle (HA-AS)**  
Spring. 4 credits. Next offered 2012–2013.  
B. Strauss and E. Baptist.]

**[HIST 3640 The Culture of the Renaissance II (also COML/FREN/RELST 3620, ENGL 3250, MUSIC 3242) # (CA-AS)**  
Fall. 4 credits. For freshmen, permission of instructor required. Next offered 2010–2011.  
K. P. Long and W. Kennedy.]

**[HIST 3644 Sages and Saints/Ancient World (also CLASS/RELST 3644) # (HA-AS)**  
Spring. 4 credits. Next offered 2010–2011.  
E. Rebillard.]

**HIST 3650 West Africa and the West: 1450–1850 (also ASRC 3302) # @ (HA-AS)**  
Fall. 4 credits. S. Greene.  
1450 marks the time when peoples, ideas, material goods, and beliefs began to move on a regular basis across the Atlantic, first between Africa and Europe, and then later between Africa, North and South America, and the Caribbean. This course examines these movements and explores how West Africans managed their relations with the West over a 400-year period. (AF)

**[HIST 3651 Law, Society, and Culture in the Middle East, 1200–1500 (also HIST 6651, NES 3551/6551) @ # (CA-AS)**  
Spring. 4 credits. Next offered 2010–2011.  
D. Powers.]

**[HIST 3661 History of Southern Africa (also ASRC 3661) @ (HA-AS)**  
Fall. 4 credits. Next offered 2011–2012.  
D. Magaziner.]

**HIST 3670 History of Modern Egypt (also NES 3670) @ (HA-AS)**  
Spring. 3 credits. Z. Fahmy.  
For description, see NES 3670. (NE)

**[HIST 3671 Survey of German History, 1648–1870 # (HA-AS)**  
Fall. 4 credits. For freshman, permission of instructor required. Next offered 2011–2012.  
I. Hull.]

**HIST 3677 Search for the Historical Muhammad (also NES 3677)**  
Spring. 4 credits. D. Powers.  
For description, see NES 3677. (NE)

**[HIST 3680 Marriage and Sexuality in Medieval Europe (also FGSS 3680) # (HA-AS)**  
Fall. 4 credits. Recommended: some prior knowledge of medieval European history. Next offered 2010–2011.  
P. Hyams.]

**[HIST 3690 The History of Florence in the Time of the Republic, 1250 to 1530 # (HA-AS)**  
Spring. 4 credits. Next offered 2010–2011.  
J. Najemy.]

**HIST 3700 History of the Holocaust (also JWST 3700) (HA-AS)**  
Spring. 4 credits. V. Caron.

This course will analyze the meaning of the Holocaust from three vantage points: that of European history; that of Jewish history; and that of those states and religious institutions that shared responsibility by having stood by in silence. Topics include: the evolution of modern anti-Semitism, the role of anti-Semitism in the Nazi ideology and program; the bureaucratization of death; Jewish life in ghettos and concentration camps; the fate of Jews in occupied Europe and the question of collaboration; Jewish political behavior under duress; the responses of the Western allies and the Churches; contemporary interpretations of the Holocaust and the meaning of evil. (EM)

**HIST 3710 World War II in Europe (HA-AS)**

Summer and fall. 4 credits. J. Weiss.  
The Second World War remains the single most important set of events shaping the contemporary world. The course deals with both the events of World War II as they shaped European and world history and the way those events were remembered and commemorated in postwar years. Lectures, screenings, and readings will examine: the role of wartime political leaders and military commanders; the experience of war and occupation for soldiers and civilians, including Resistance movements and collaborators; Nazi genocide; intellectual and cultural changes during the war, including the impact on literature and philosophy; strategic questions about the origins and conduct of the war; the concluding phases involving the Nuremberg Trials, the Yalta and Potsdam conferences, and the launching of the Cold War; and the representation of the war in subsequent films, literature, and political culture. (EM)

**[HIST 3730 Law, Crime, and Society in Early Modern Europe # (HA-AS)**  
Spring. 4 credits. Next offered 2011–2012.  
D. Corpiis.]

**HIST 3731 Religion and Society in Early Modern Europe (also RELST 3731) (HA-AS)**

Spring. 4 credits. D. Corpiis.  
European Christendom both exploded and imploded in the 16th century, creating a fragmented and fractious religious landscape that still marks Europe to this day. This course examines the significant changes brought about by the Protestant and Catholic Reformations and explores the impact of new religious dogmas, beliefs, practices, and institutions upon the broader order of European politics, society, and culture. Topics covered will include: the thought of Luther and Calvin, the Anabaptists, the Peasants' War, the responses of the Catholic Church, the changes in women's piety, heresy and witchcraft, and the Wars of Religion, and Christianity's encounters with Judaism and Islam. (EM)

**[HIST 3750 The African American Workers, 1865 to 1910: The Rural and Urban Experience (also ILCRB 3850) # (HA-AS)**

Fall. 3 credits. Junior or senior standing or permission of instructor. Next offered 2010–2011.  
N. Salvatore.]

**[HIST 3760 The African-American Workers, 1910 to the Present: Race, Work, and the City (also ILCRB 3860)**  
Fall. 3 credits. Next offered 2011–2012.  
N. Salvatore.]

**[HIST 3780 Topics in U.S. Women's History (also AMST 3708)**  
Fall. 4 credits. Prerequisite: FGSS/HIST 2730 or 3030, or permission of instructor. Next offered 2011–2012.  
M. B. Norton.]

**HIST 3790 The First World War: Causes, Conduct, Consequences (HA-AS)**  
Spring. 4 credits. Open to freshmen.  
I. Hull.

This course examines the long-term and immediate political, social, and cultural causes of World War I, its catastrophic prosecution, and its revolutionary consequences. Recurring themes are: the building of nation-states, the diplomatic and military systems of the 19th and 20th centuries, mass mobilization, the development of mass violence, and the emergence of millenarian visions of the future. (EM)

**[HIST 3840 Europe and Early Cold War (HA-AS)**  
Fall. 4 credits. Next offered 2011–2012.  
J. Weiss.]

**HIST 3860 The Indian Ocean in World History @ (HA-AS)**  
Fall. 4 credits. S. Aslanian.

The purpose of this course is to introduce students to the rapidly growing field of Indian Ocean studies. Our approach will be to study the Indian Ocean as one of the oldest maritime highways connecting diverse regions, cultures and "civilizations." The time period for the course will roughly coincide with the emergence of Islam in the seventh century CE to the intrusion of various European powers into the region and the subsequent emergence of the global economy and colonialism in the 19th century. In studying the Indian Ocean "world" within the framework of global history, particular attention will be paid to the role of port cities and their networks and especially to a variety of seaborne long-distance merchant communities (Geniza Jews, Muslims, Julfan Armenians, and Indians) that

facilitated the circulation of commodities, cultures, and ideas and in doing so helped to give shape to the Indian Ocean as a "unified" aquatic space in world history. We will rely on a variety of texts including primary sources such as travel literature, scholarly studies of the economic history of merchant communities, as well as Amitav Ghosh's extraordinary novel of medieval life in the Indian Ocean, entitled *In an Antique Land*. The format of the course will be lecture and discussion. Students are strongly urged to begin reading *In an Antique Land* from the first week of class. (AS)

**[HIST 3880 History of Vietnam (also ASIAN 3385/6685, HIST 6880) @ # (HA-AS)]**

Fall. 3 credits. Next offered 2010-2011. K. Taylor.]

**[HIST 3950 Premodern Southeast Asia (also ASIAN 3397, HIST 6950) @ # (HA-AS)]**

Fall. 4 credits. Open to undergraduates, both majors and nonmajors in history, and to graduate students, although with separate requirements. Next offered 2010-2011. E. Tagliacozzo.]

**[HIST 3960 Southeast Asian History from the 18th Century (also ASIAN 3396/6696, HIST 6960) @ (HA-AS)]**

Spring. 4 credits. Graduate students must enroll in HIST 6960. E. Tagliacozzo.

Surveys the modern history of Southeast Asia with special attentions to colonialism, the Chinese diaspora, and sociocultural institutions. Considers global transformations that brought "the West" into people's lives in Southeast Asia. Focuses on the development of the modern nation-state, but also questions the narrative by incorporating groups that are typically excluded. Assigns primary texts in translation. (AS)

**[HIST 3970 History of the Israeli-Palestinian Conflict (also GOVT 3977, JWST/NES 3697, SOC 3970) @ (HA-AS)]**

Spring. 4 credits. R. Brann. For description, see NES 3697. (NE)

### Honors Courses

**[HIST 4000 Honors Proseminar]**

Fall and spring. 4 credits. Limited to 15 students. For prospective honors candidates in history. Permission of member of Honors Committee required. Fall, L. Moore; spring, D. Ghosh.

An exploration of major contemporary approaches to historical inquiry, analysis, and presentation. Ways of thinking about history along with research methods and organization of the results will be considered by reading and discussing a variety of historical works. (HR)

**[HIST 4001 Honors Guidance]**

Fall. 4 credits. Prerequisite: HIST 4000. Permission of instructor required. M. B. Norton. (HR)

**[HIST 4002 Honors Research]**

Spring. 4 credits. Prerequisite: HIST 4000. Permission of instructor required. M. B. Norton. (HR)

### Undergraduate Seminars

**[HIST 4030 History of the U.S. Senate in the 20th Century (also GOVT 4218) (HA-AS)]**

Fall and spring. 4 credits. Offered in Cornell in Washington Program. B. Koed. This course will offer students an opportunity to view the process of shaping national debates from the perspective of the United States Senate. The modern Senate will serve as the point of reference for an inquiry into the development of the institution's powers under the Constitution during the past 200 years. Class readings, lectures and discussions will focus on the themes of continuity and change, the role of individual senators, and the institutional evolution of the Senate. In addition to general class reading and written examinations, each student will write a short paper and participate in an oral presentation. (AM)

**[HIST 4050 U.S.-Cuba Relations (also AMST/LATA/LSP 4050/6050, HIST 6050) (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011. M. C. García.]

**[HIST 4061 The New Cold War History (also HIST 6061) @ (HA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2011-2012. J. Chen.]

**[HIST 4070 History/Memory of Asia-Pacific War (also ASIAN 4426) @ (HA-AS)]**

Spring. 4 credits. Next offered 2012-2013. J. V. Koschmann.]

**[HIST 4080 Feudalism and Chivalry: Secular Culture in Medieval France, 1000 to 1300 # (HA-AS)]**

Fall. 4 credits. Recommended: HIST 2620. Next offered 2010-2011. P. Hyams.]

**[HIST 4091 Contesting Identities in Modern Egypt (also NES 4605) @ (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011. Z. Fahmy.]

**[HIST 4100 Archipelago: Worlds of Indonesia (also ASIAN 4409/6617, HIST 6100) @ (HA-AS)]**

Spring. 4 credits. Open to undergraduates and graduate students, though with separate requirements. Limited to 15 students. Next offered 2010-2011. E. Tagliacozzo.]

**[HIST 4111 Undergraduate Seminar: History of the American South (also AMST 4302) (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011. E. Baptist.]

**[HIST 4120 The Scientific Revolution in Early-Modern Europe (also STS 4120) (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012. P. Dear.]

**[HIST 4141 Women's Activism and Social Change in the 20th Century U.S. (also AMST/FGSS 4141) (HA-AS)]**

Fall. 4 credits. T. Carroll. This is a service-learning course in which students will examine women's leadership in movements for social change, and lead their own study groups on the same topic with young people in local prisons. During the term, we will examine activists from a variety of movements including those mobilizing on issues relating to economic justice, race

relations, sexual identity, peace, gender equality, public health, and social welfare. We will focus on the tactics and the strategies, as well as the successes and failures, of social movements in the 20th-century United States. We will both study and practice consciousness-raising and group education as methods of social change, and emphasize the relationship between activists' intellectual contributions and their community engagement. At the start of the semester, students will receive training in leading small-group discussions. Students will meet weekly outside of class in groups of three to four to plan activities for their study group, and must reserve Thursdays from 2:15 to 4:30 to travel to local institutions to meet with their study groups. Students eligible for work study may count their service hours toward their work study requirements. In addition to the service requirements, students must complete assigned readings, keep a weekly reflection journal, and complete a group final presentation analyzing and evaluating their experience over the semester. (AM)

**[HIST 4150 Seminar in the History of Biology (also BIOEE 4670, BSOC/STS 4471) (PBS)]**

Summer or fall. 4 credits. Limited to 18 students. W. Provine. For description, see BIOEE 4670. (HS)

**[HIST 4160 Undergraduate Seminar on Gender and Sexuality in Southeast Asia (also ASIAN 4416/6618, FGSS 4160, HIST 6160) @ (CA-AS)]**

Fall. 4 credits. Letter grades only. Next offered 2011-2012. T. Loos.]

**[HIST 4170 History of Jews in Modern France (also FREN 4130, JWST 4170) (HA-AS)]**

Spring. 4 credits. Permission of instructor required. V. Caron.

This course will explore the integration of Jews into French society from the French Revolution to the present. Topics will include: the debate over Jewish emancipation during the Enlightenment, the French Revolution, and the Napoleonic era; the processes of religious and social assimilation; the rise of antisemitism and the Dreyfus Affair; Jewish responses to antisemitism; the immigrant challenge and refugee crisis of the 1930's; the Vichy era and Jewish resistance during World War II; and the reconstruction of the French Jewish community since 1945. (EM)

**[HIST 4200 Asian American Communities (also AAS 4240, AMST 4200) (HA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2010-2011. D. Chang.]

**[HIST 4221 British in India, 1750-1830 @ # (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012. T. R. Travers.]

**[HIST 4231 Gender and Technology (also BSOC/FGSS/STS 4231) (HA-AS)]**

Spring. 4 credits. S. Pritchard. For description, see STS 4231. (HS)

**[HIST 4251 Ethics, Race, Religion, and Health Policy (HA-AS)]**

Fall. 4 credits. Offered in Cornell in Washington Program. A. Kraut. (AM)

**[HIST 4260 The West and Beyond: Frontiers and Borders in American History and Culture (also AMST 4260) (HA-AS)]**

Spring. 4 credits. Limited to 15 students. Priority given to junior and senior majors in History and American Studies. Next offered 2010–2011. A. Sachs.]

**[HIST 4261 Commodification and Consumerism in Historical Perspective: Sex, Rugs, Salt, and Coal (also AMST 4261) @ # (HA-AS)]**

Fall. 4 credits. Priority given to juniors and seniors majoring in history and American studies. A. Sachs.

Everything is for sale today—but has it always been? We'll look at the history of various commodities to explore the changing cultural and environmental impacts of market forces. Why are "oriental" rugs collector's items? How did we come to keep salt shakers on our dinner tables? When did coal start replacing wood as a fuel source? This course will cross multiple boundaries of time and space as it examines both case studies and broader theoretical perspectives, allowing us to draw connections between our culture of consumption and the social forces wrapped up in production. How was the taste for sugar linked to the slave trade? Is prostitution really "the oldest profession?" What goes into your daily cup of coffee besides half and half? And what was western society like before everything had a price? (AM)

**[HIST 4270 Reading the Africa Diaspora (HA-AS)]**

Spring. 4 credits. Next offered 2011–2012. D. Magaziner.]

**[HIST 4271 African Environmental History (also ASRC 4305) @ (HA-AS)]**

Fall. 4 credits. D. Magaziner.

This course offers systematic and in depth analysis of issues and themes related to the environmental history of sub-Saharan Africa. Students read a variety of scholarly and popular writing about topics such as African agricultural and wildlife management practices, nature, landscape and conflicts over conservation during the colonial and post-colonial era, and the politics and social history of famine, ecological crisis and disease. The course's seminar format allows students to develop their own areas of interest and, in addition to the reading, students will be responsible for informed class discussion and one substantial paper over the course of the semester. (AF)

**[HIST 4280 Freud and His Commentators (also GERST 4270) (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012. C. Robcis.]

**[HIST 4300 America in the Camera's Eye (also AMST 4302)]**

Fall. 4 credits. Limited to 15 students. Permission of instructor required. Next offered 2011–2012. R. L. Moore.]

**[HIST 4301 Black Leaders and Movements in African American History (also ASRC 4301)]**

Spring. 3 credits. R. Harris.

For description, see ASRC 4301. (AF)

**[HIST 4310 Migrant Workers (also CRP 3850/5850, HIST 6310, ILRCB 4020, LSP 4310/6310) (HA-AS)]**

Spring. 4 credits. Next offered 2010–2011. R. Craib.]

**[HIST 4311 Topics in American Studies: American Politics and Dissent, 1945–2000 (also AMST 4310)]**

Fall. 4 credits. Next offered 2011–2012. N. Salvatore.]

**[HIST 4320 Topics in Ancient Greek History (also CLASS 4320, HIST 6330)]**

Spring. 4 credits. Next offered 2011–2012. B. Strauss.]

**[HIST 4330 History of Modern German Jewry: From Enlightenment to the Post-1945 Era (also JWST 4330) (HA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2011–2012. V. Caron.]

**[HIST 4360 Conflict Resolution in Medieval Europe # (KCM-AS)]**

Spring. 4 credits. Next offered 2010–2011. P. Hyams.]

**[HIST 4390 Reconstruction and the New South (also AMST 4390, HIST 6391) # (HA-AS)]**

Fall. 4 credits. Limited to 15 students. Limited to juniors and seniors. M. Washington.

This course focuses on the American South in the 19th century as it made the transition from Reconstruction to new forms of social organization and patterns of race relations. Reconstruction will be considered from a sociopolitical perspective, concentrating on the experiences of the freed people. The New South emphasis will include topics on labor relations, economic and political changes, new cultural alliances, the rise of agrarianism, and legalization of Jim Crow. (AM)

**[HIST 4400 Undergraduate Seminar in Recent American History (also AMST 4400) (HA-AS)]**

Fall. 4 credits. Permission of instructor required. R. Polenberg.

Topic: The Blues and American Culture (AM)

**[HIST 4411 Fourth-Century and Early History of Greece (also CLASS 4410) # (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012. B. Strauss.]

**[HIST 4421 To Be Enslaved Then and Now (also ASRC 4306) # (HA-AS)]**

Spring. 4 credits. S. Greene.

In this course, we will read and analyze select texts (both oral and written) that were composed between the late 18th century and 2005 by individuals who were enslaved or who boasted of enslaving others. Emphasis is placed on African and African American texts but in comparison with narratives by Europeans, Asians and Latin Americans. For whom were these texts produced and for what purpose? How much in these texts is history, how much is fiction, and how do we determine the difference? What can these texts tell us about the individual authors and the political, economic and cultural contexts in which they were written? These and other related questions will structure this seminar. (AF)

**[HIST 4440 American Men (also AMST/FGSS 4450) (HA-AS)]**

Fall. 4 credits. Limited to 15 students. Next offered 2010–2011. E. Baptist.]

**[HIST 4460 Strategy in World War II (HA-AS)]**

Spring. 4 credits. Permission of instructor required. J. Weiss.

Strategic decision-making in World War II. The course will be organized into a "task force" addressing crucial problems faced by the European–American Allies in World War II: the invasion of northwest Europe, strategic bombing tactics, the rescue of European Jews, and coordination with the Soviet Union. Individual presentations/papers followed by meetings to draft group reports. (EM)

**[HIST 4470 Crusaders and Chroniclers @ # (HA-AS)]**

Fall. 4 credits. Limited to 15 students. Next offered 2011–2012. P. Hyams.]

**[HIST 4501 Representing Atrocities: Questions of Historical Knowledge, Memory and Otherness in the Study of the Nanking Massacre Discourse (also ASIAN 4451)]**

Spring. 4 credits. Next offered 2011–2012. K. Hirano.]

**[HIST 4502 Power and Popular Culture in Early Modern Japan @ # (HA-AS)]**

Fall. 4 credits. K. Hirano.

How did the seemingly apolitical realm of popular culture become one of the grave political concerns of the Shogunate in early modern Japan? By investigating the complex interplay between power and popular culture, the course seeks to rethink the widely received conceptions of the political and the cultural, and to theorize the transformative process of Tokugawa society. (AS)

**[HIST 4520 History of the New Europe (HA-AS)]**

Fall. 4 credits. Limited to 15 students. Next offered 2010–2011. H. Case.]

**[HIST 4552 The World of the Phoenicians (also NES/JWST 4550)]**

Spring. 4 credits. C. Monroe.

For description, see NES 4550. (NE)

**[HIST 4560 Topics in Medieval Historiography (also HIST 6560) # (HA-AS)]**

Spring. 4 credits. Permission of instructor required. Next offered 2011–2012. O. Falk.]

**[HIST 4570 Seminar in European Fascism (HA-AS)]**

Fall. 4 credits. Permission of instructor required. Next offered 2010–2011. I. Hull.]

**[HIST 4581 Intelligibility in Science (also STS 4581) (HA-AS)]**

Spring. 4 credits. Next offered 2012–2013. P. Dear.]

**[HIST 4601 Toward a Prehistory of Terrorism (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012. O. Falk.]

**[HIST 4611 Religion and Imperial Politics in the Early Modern Middle East (also NES 4600) @ # (HA-AS)]**

Fall. 4 credits. A. Karakaya-Stump.

For description, see NES 4600. (NE)

**[HIST 4621 The Enlightenment # (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012. S. Kaplan.]

**[HIST 4630 War and Society in Eastern Europe (HA-AS)]**

Spring. 4 credits. Next offered 2010–2011. H. Case.]

**[HIST 4642 Women in the Modern Middle East (also FGSS 4640, NES 4642)**

Spring. 4 credits. Next offered 2010-2011.  
Z. Fahmy.]

**HIST 4650 Special Topics: Historical Documents on Modern China (also CHIN 4426/6625, HIST 6650) @**

Fall. 4 credits. Prerequisite: equivalent of three years Mandarin instruction.  
Permission of instructor required. Z. Chen.  
This course is designed to help graduate students and qualified undergraduate to conduct research on topics on modern Chinese history. To qualify to take the course, a student should have studied Chinese to the advanced level. It will concentrate on helping students develop the ability to read and interpret historical documents in Chinese. Altogether eight sets of original documents representing different events and periods are selected. Documentary films will also be shown in class to enhance students' understanding. While doing so, both linguistic and historical issues will be addressed and analyzed, so students will develop a better understanding of how to deal with some of the general challenges that they will be facing in conducting primary-source research on modern China. Class will be conducted in Chinese. (AS)

**[HIST 4660 Iroquois History (also AIS/AMST 4660) # (HA-AS)**

Fall. 4 credits. Next offered 2010-2011.  
J. Parmenter.]

**HIST 4666 Mass Media and identities in the Modern Middle East (also NES 4666)**

Fall. 4 credits. Z. Fahmy.  
For description, see NES 4666. (NE)

**[HIST 4680 Love and Sex in the Italian Renaissance # (HA-AS)**

Fall. 4 credits. Next offered 2011-2012.  
J. Najemy.]

**[HIST 4691 The Old English Laws and Their Politico-Cultural Context (also ENGL 4190, HIST 6691) # (CA-AS)**

Fall. 4 credits. Next offered 2011-2012.  
P. Hyams and T. Hill.]

**HIST 4740 Topics in Modern European Intellectual and Cultural History: The Human and the Animal (also COML 4740, JWST 4674)**

Fall. 4 credits. Limited to 15 students.  
D. LaCapra.

The course will focus on the problem of the relations between history and literature. Of particular interest will be the attempt to negotiate the relations between formal "literary" analysis and historical understanding. Another key concern will be the types of critical theory most relevant to this attempt. Readings include Joseph Conrad, Gustave Flaubert, J. M. Coetzee, W. G. Sebald, M. M. Bakhtin, Fredric Jameson, Walter Benjamin, and Theodor Adorno. (EM)

**[HIST 4741 Topics in Modern European Intellectual History: Trauma in Literature, History, and Film**

Spring. 4 credits. Next offered 2011-2012.  
D. LaCapra.]

**[HIST 4760 History and Story in the Norse Sagas (also ENGL 4120, HIST 6760) (HA-AS)**

Spring. 4 credits. Next offered 2010-2011.  
O. Falk and T. Hill.]

**[HIST 4821 Religious and Secular in American Culture (also AMST/RELST 4821) (HA-AS)**

Fall. 4 credits. Permission of instructor required. Next offered 2011-2012.  
R. L. Moore.]

**HIST 4850 Immigration: History, Theory, and Practice (also AMST/LSP 4850) (HA-AS)**

Fall. 4 credits. Permission of instructor required. M. C. Garcia.  
This seminar focuses on immigration to the United States since 1965. We will examine the various groups that have migrated to the United States; the immigration and refugee policy that has facilitated their entry; contemporary debates about immigration control; the transnational ties of immigrants to their homelands; guest workers programs; and the special needs of today's immigrant populations. Course requirements include participation in a service-learning project within the Ithaca/Tompkins County area that will be arranged in conjunction with the professor. Weekly sessions will feature presentations by different Cornell faculty and representatives from local social agencies and community organizations. (AM)

**HIST 4851 Refugees (also AMST/LSP 4851) (HA-AS)**

Spring. 4 credits. Permission of instructor required. M. C. Garcia.  
Since World War II, over four million people have migrated to the United States as refugees. In this seminar, we will examine some of these refugee migrations and the ways they challenged our understanding of the United States as a "haven for the oppressed." We will examine how refugee/asylum policy was crafted: the role of nongovernmental actors in influencing policy, and the ways it reflected foreign policy interests and security concerns. The second half will pay particular attention to our changing definitions of who "merits" asylum in the United States since the end of the Cold War. (AM)

**[HIST 4861 Classics and Early America (also CLASS 4683, GOVT 4862) # (HA-AS)**

Fall. 4 credits. Next offered 2010-2011.  
H. Rawlings.]

**[HIST 4870 Seminar on Thailand (also ASIAN 6601, HIST 6870) @ (HA-AS)**

Spring. 4 credits. Next offered 2010-2011.  
T. Loos and T. Chaloeitjarana.]

**[HIST 4900 New World Encounters, 1500 to 1800 (also AIS/AMST 4900) (HA-AS)**

Fall. 4 credits. Limited to 15 students. Next offered 2012-2013. J. Parmenter.]

**[HIST 4910 Approaches to Medieval Violence (also HIST 6920) # (HA-AS)**

Fall. 4 credits. Limited to 15 students.  
Permission of instructor required. Next offered 2010-2011. O. Falk.]

**[HIST 4921 India: Nation and Narration, History, and Literature (also ASIAN 4494) @ (CA-AS)**

Spring. 4 credits. Next offered 2011-2012.  
D. Ghosh and A. Banerjee.]

**[HIST 4930 Problems in Modern Chinese History (also ASIAN 4493/6693, HIST 6930) @ (HA-AS)**

Fall. 4 credits. Prerequisite: HIST 2940 or permission of instructor. Next offered 2010-2011. S. Cochran.]

**HIST 4931 Vitality and Power in China (also ASIAN 4429, RELST/SHUM 4931, STS 4911)**

Spring. 4 credits. T. J. Hinrichs.  
Chinese discourses have long linked the circulation of cosmic energies, political power, and bodily vitalities. In these models political order, spiritual cultivation, and health are achieved and enhanced through harmonizing these flows across the levels of Heaven-and-Earth, state, and humankind. It is when these movements are blocked or out of synchrony that we find disordered climates, societies, and illness. In this course, we will examine the historical emergence and development of these models of politically resonant persons and bodily centered polities, reading across primary texts in translation from these otherwise often separated fields. For alternate frameworks of analysis as well as for comparative perspectives, we will also examine theories of power and embodiment from other cultures, including recent scholarship in anthropology and critical theory. (AS)

**HIST 4932 The History of Reason (also SHUM 4932, STS 4921)**

Spring. 4 credits. P. Dear.  
This course will examine ways in which "reason" was understood, deployed, and contested in European thought and practice from the early-modern period through to the 20th century. We will read primary sources that theorize or employ notions of "reason" (Descartes, Hobbes, Newton, Hume, Kant, etc.) Theoretical controversy over the foundations of "reason" in political economy as well as in formal logic in the 19th century will also be studied, to counterpoint its practical uses in early anthropological work from the late 19th and 20th centuries on the notion of a "Great Divide" between western and nonwestern cultures. As well as regular weekly reports on the reading and active participation in discussion, students will be required to write a brief (2,000 word) midterm essay on one or more of the weekly readings, and a final paper (5,000 words) on a topic of their choice related to the themes of the course. (EM)

**HIST 4933 Abolitionist Circuits (also ASRC/SHUM 4933, ENGL 4073)**

Spring. 4 credits. M. Schoolman.  
An interdisciplinary seminar drawing on literary, historical and geographical approaches to consider the roles of both physical transit and the geographic imaginary in 19th-century antislavery writing in English. Topics discussed will likely include the cross-border community of black activists living around the Great Lakes, the persistence of emigrationism throughout the antebellum period, abolitionist travel literature, and the historical existence and cultural deployment of the maroon communities in the Caribbean and the southern United States. Primary texts will include works by William Wells Brown, Mary Ann Shadd Cary, Martin Delany, Ralph Waldo Emerson, Joseph John Gurney, Herman Melville, James Redpath, Harriet Beecher Stowe, and Samuel Ringgold Ward, as well as the unique resources available through Cornell's Samuel Joseph May Collection of abolitionist pamphlets.

**HIST 4950 Gender, Power, and Authority in England, 1600 to 1800 # (CA-AS)**

Spring. 4 credits. R. Weil.

It is a truism that early modern society was a “patriarchal” one in which men had authority—but how did that authority operate and what were its limits? How did the exercise of power between men and women intersect with religious, literary, legal and political institutions? We will approach these questions chronologically, examining the impact of the Reformation, the English Revolution, the Enlightenment, the rise of middle class and polite culture. We will also explore them methodologically and generically, with an eye to how different kinds of evidence and sources can produce different kinds of conclusions. Historians’ hypotheses will be tested by analysis of primary sources. (EM)

**[HIST 4961 History of Medicine and Healing in China (also ASIAN 4469, BSOC/STS 4961, HIST 6961) @ # (HA-AS)]**

Spring. 4 credits. Next offered 2010–2011. T. J. Hinrichs.]

**[HIST 4970 Jim Crow and Exclusion-Era America (also AAS 4970, AMST 4970/6970, HIST 6970) (HA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2011–2012. D. Chang.]

**[HIST 4990 Problems in Modern Chinese History (also ASIAN 4499/6694, HIST 6940) @ (HA-AS)]**

Spring. 4 credits. Prerequisite: HIST 2940 or permission of instructor. Next offered 2011–2012. S. Cochran.]

**HIST 4997 Undergraduate Research Seminar (also AMST 4997)**

Fall and spring. 8 credits each semester. Offered in Cornell in Washington Program. S. Jackson.

Intensive research and writing experience using the extensive resources of Washington D.C. (AM)

### Graduate Seminars

**[HIST 5070 Graduate Seminar: The Occidental Tourist (also ASIAN 2206/5507, HIST 2070)]**

Fall. 4 credits. Next offered 2010–2011. T. Loos.]

**HIST 6000 Graduate Research Seminar**

Spring. 4 credits. R. Craib.

This seminar is devoted entirely to the writing of a substantive research paper. Students will share research proposals, annotated bibliographies, outlines and portions of rough drafts. Class meetings will be devoted to discussing what students have produced, and general issues associated with constructing research papers. (HR)

**HIST 6010 European History Colloquium**

Fall and spring. 2 credits each semester. Limited to graduate students. Fall: D. LaCapra and J. Weiss; Spring: H. Case and C. Robcis.

A research colloquium designed for European history graduate students. The colloquium will offer a forum for students to present papers and to discuss the work of visiting scholars. (EM)

**HIST 6020 East Asian Colloquium (also ASIAN 5599)**

Fall and spring. 4 credits. K. Hirano.

A forum for graduate students to present their work and discuss the work of others. (AS)

**HIST 6030 The Americas Colloquium**

Fall and spring. 4 credits. Fall, E. Baptist; spring, staff.

A research colloquium designed for graduate students in U.S. and Latin American history. The colloquium will offer a forum for students to present papers and to discuss their work and that of occasional visiting scholars. (AM)

**[HIST 6040 Colloquium in American History]**

Spring. 4 credits. Requirement for first- and second-year graduate students in U.S. history. Next offered 2010–2011. E. Baptist.]

**[HIST 6050 U.S.–Cuba Relations (also AMST/HIST/LSP 4050)]**

Spring. 4 credits. Next offered 2010–2011. M. C. García.]

**[HIST 6051 Themes and Issues in Modern European History]**

Spring. 4 credits. Next offered 2011–2012. H. Case.]

**[HIST 6061 The New Cold War History (also HIST 4061)]**

Spring. 4 credits. Limited to 15 students. Next offered 2011–2012. J. Chen.]

**[HIST 6100 Archipelago: Worlds of Indonesia (also ASIAN 4409/6617, HIST 4100)]**

Spring. 4 credits. Limited to 15 students. Open to undergraduates and graduate students, although with separate requirements. Next offered 2010–2011. E. Tagliacozzo.]

**[HIST 6101 Afro-American Historiography (also AMST 6101)]**

Fall. 4 credits. Letter grades only. Next offered 2010–2011. M. Washington.]

**[HIST 6102 Writing African-American History]**

Fall. 4 credits. Next offered 2011–2012. M. Washington.]

**[HIST 6110 Slavery in North America]**

Spring. 4 credits. Next offered 2012–2013. M. Washington.]

**HIST 6140 Readings in Cultural Materialism: Theory and Practice**

Spring. 4 credits. K. Hirano.

The course is intended to be a forum where graduate students closely read and examine a set of scholarly works regarded collectively as the school of “Cultural Materialism.” During the 1970s and ’80s, a group of Marxism-inspired scholars began to suggest a way to overcome the old Marxist model of economic determinism by taking “culture” seriously as an integral part of materialist studies. This intellectual movement laid a foundation for what we currently call “Cultural Studies.” By revisiting their works, we will discuss what insights we can draw from them for our contemporary scholarly agendas and projects. The readings include *Lenin and Philosophy* (Althusser), *Prison Notebooks* (Gramsci), *Culture and Materialism* (Williams), *Marxism and Literature* (Williams), *Marxism and Philosophy of Language* (Volosinov), *Dialogic Imagination* (Bakhtin), *Postmodernism, or, The Cultural Logic of Late Capitalism* (Jameson), and others. (AS)

**[HIST 6150 The Past in the Present/The Present in the Past: Histories of Tokugawa Japan (also ASIAN 6615)]**

Fall. 4 credits. Next offered 2011–2012. K. Hirano.]

**[HIST 6160 Gender and Sexuality in Southeast Asia (also ASIAN 4416/6618, FGSS/HIST 4160)]**

Fall. 4 credits. Limited to 15 students. Intended for graduate students. Letter grades only. Next offered 2011–2012. T. Loos.]

**[HIST 6180 Readings in 20th-Century U.S. Political, Intellectual, and Diplomatic History]**

Fall. 4 credits. Prerequisite: graduate standing. Next offered 2011–2012. F. Logevall.]

**[HIST 6200 Intelligibility in Science (also STS 6201)]**

Spring. 4 credits. Graduate seminar. Next offered 2011–2012. P. Dear.]

**[HIST 6230 Nation, Empire, and Identity in 17th-Century Historiography]**

Fall. 4 credits. Next offered 2011–2012. R. Weil.]

**[HIST 6231 The Intellectual History of Early Modern Empire]**

Fall. 4 credits. Next offered 2010–2011. R. Weil.]

**[HIST 6240 Culture, Commodities, and Capitalism in Europe, 1500–1800]**

Spring. 4 credits. Next offered 2011–2012. D. Corpi.]

**[HIST 6260 Graduate Seminar in the History of American Women]**

Fall. 4 credits. Next offered 2011–2012. M. B. Norton.]

**[HIST 6270 Graduate Seminar in Early American History]**

Spring. 4 credits. Prerequisite: graduate standing. Permission of instructor required. Next offered 2010–2011. J. Parmenter.]

**HIST 6280 Graduate Seminar: 19th-Century U.S. History**

Spring. 4 credits. D. Chang.

This course will introduce students to the historiography of the 19th-century United States. We will investigate the period both thematically and chronologically. We will read, discuss, and critique works written from a variety of perspectives and using a number of different approaches. (AM)

**HIST 6300 Topics in Ancient History (also CLASS 7682)**

Spring. 4 credits. E. Rebillard.

For description, see CLASS 7682. (EA)

**[HIST 6310 Migrant Workers (also CRP 3850/5850, HIST 4310, ILRCB 4020, LSP 4310/6310)]**

Spring. 4 credits. Next offered 2010–2011. R. Craib.]

**[HIST 6330 Topics in Ancient Greek History (also CLASS 4360/7684, HIST 4320)]**

Spring. 4 credits. Next offered 2011–2012. B. Strauss.]

**HIST 6350 The Writing of History**

Spring. 4 credits. A. Sachs.

This graduate seminar approaches the writing of history as a problem rather than a given, as a craft or even an art rather than a standard method of presenting research. We’ll consider as many kinds of history writing as possible, including some that are more traditional and some that are more experimental. To get at the complexity of the problem, we’ll approach it from at least three distinct angles, examining the actual history of the writing of history

(going back to Herodotus, "The Father of Lies"); the theory and philosophy of the writing of history; and current writing practices. Readings will range widely through time and space and will be assessed not just for the quality of their arguments or their place in a given historiography but also for their success as pieces of writing. We'll discuss such topics as narrative structure, the role of the first person, tone, character development, and the basic use of language. Students will also be expected to do a fair amount of writing for this class and to share their papers in a workshop setting—though no new research will be required during the semester. Obviously, the course is geared toward students in the History department, but anyone doing historical writing in any discipline whatsoever—English, Science and Technology Studies, Sociology, etc.—is warmly invited to sign up. (AM)

**[HIST 6360 Ancient Warfare (also CLASS 7686)]**

Spring. 4 credits. Prerequisites: at least one course in ancient history and a reading knowledge of Greek and Latin. Permission of instructor required. Next offered 2010–2011. B. Strauss.]

**HIST 6390 Mao and the Chinese Revolution**

Fall. 4 credits. J. Chen.

This is a reading and research seminar designed to provide an in-depth investigation of one of the most magnificent, yet destructive, revolutions in human history—the Chinese Communist revolution, as well as the person who had shaped and led the revolution—Mao Zedong. The course develops in three phases. Phase I offers an introduction of Mao and the existing scholarship about Mao and his revolution. Phase II focuses on reading assignments of texts about Mao and by Mao. In Phase III, each student will write a comprehensive review essay on a Mao-related topic, and will orally present his or her own essay and, in addition, provide critique to a fellow student's essay and oral presentation. (AS)

**HIST 6391 Reconstruction and the New South (also HIST/AMST 4390)**

Fall. 4 credits. M. Washington.

For description, see HIST 4390. (AM)

**HIST 6410 Science, Technology, Gender: Historical Issues (also FGSS 6400, STS 6401)**

Spring. 4 credits. S. Seth.

For description, see STS 6401.

**HIST 6411 Fourth-Century and Early Hellenistic History of Greece (also CLASS 7681)**

Fall. 4 credits. B. Strauss.

Topics include the evolution of the Greek city-state; society, economy, and gender; democracy, oligarchy, and tyranny; the careers of Philip, Alexander, and the Successors. Greco-Persian relations. Sicily and southern Italy, and the establishment of the Hellenistic Kingdoms. (EA)

**[HIST 6420 The Politics of History-Writing: Historiography and Post-Colonial Criticism of South Asia]**

Spring. 4 credits. Next offered 2011–2012.

D. Ghosh.]

**HIST 6481 Seminar in Latin American History**

Fall. 4 credits. R. Craib.

Topic for Fall 2009: Peasants, Workers, and Intellectuals in Modern Latin America. This course is a readings and research seminar on the history of Spanish America from roughly 1750 to 2000, with particular attention to the post-independence histories of peasants, urban workers, and intellectuals. Weekly readings will include a major monograph on Latin America and particular theme (idea of peasant community; gender and labor; immigration and the social question; rise of the middle classes; politics of memory; the Left, among others) plus additional theoretical articles from various disciplines and fields that complement or challenge authors' conceptualizations of their material. As well as weekly participation and presentations, students will be expected to research and write a 25- to 30-page research paper based on primary sources. Reading knowledge of Spanish is helpful but not required. (LA)

**HIST 6510 India and British Political Thought c. 1600–1850**

Spring. 4 credits. T. R. Travers.

This seminar explores at how Britons who fought, traded, conquered and governed in early modern South Asia thought about their own actions, and also about the states and cultures they encountered. What did Britons think about the Mughal empire, and how did they understand and explain the rise of the British empire in India? What opportunities existed for intellectual exchanges between British and Indian political ideas in this period? In what ways did encounters with India feed back into British political thought? (EM)

**HIST 6540 Topics in East-Central European History**

Spring. 4 credits. H. Case.

Topic for Spring 2010: War in Modern East-Central European History. (EM)

**[HIST 6550 Early Modern Atlantic World (also AMST 6550)]**

Spring. 4 credits. Next offered 2010–2011.

M. B. Norton.]

**[HIST 6560 Topics in Medieval Historiography (also HIST 4560)]**

Spring. 4 credits. Permission of instructor required. Next offered 2011–2012. O. Falk.]

**[HIST 6610 Graduate Seminar in 20th-Century German History]**

Fall. 4 credits. Permission of instructor required. Next offered 2010–2011. I. Hull.]

**[HIST 6641 Medieval Poverty]**

Fall. 4 credits. Next offered 2010–2011.

P. Hyams.]

**HIST 6650 Historical Documents on Modern China (also CHIN 4426/6626, HIST 4650)**

Fall. 4 credits. Prerequisite: equivalent of three years Mandarin instruction.

Permission of instructor required. Z. Chen. For description, see HIST 4650. (AS)

**[HIST 6651 Law, Society, and Culture in the Middle East, 1200–1500 (also HIST/NES 3651/6651)]**

Spring. 4 credits. Next offered 2010–2011.

D. Powers.]

**[HIST 6671 Spartacus (also CLASS 7667)]**

Spring. 4 credits. Next offered 2012–2013.

B. Strauss.]

**[HIST 6691 The Old English Laws and Their Politico-Cultural Context (also ENGL 4190, HIST 4691)]**

Fall. 4 credits. Next offered 2011–2012.

P. Hyams and T. Hill.]

**HIST 6720 Seminar in European Intellectual History (also COML 6720)**

Fall. 4 credits. D. LaCapra. (EM)

**[HIST 6730 Topics in Modern European Intellectual History (also COML 6730, JWST 6740)]**

Spring. 4 credits. Next offered 2010–2011.

D. LaCapra.]

**HIST 6750 Genocidal Regimes**

Fall. 4 credits. J. Weiss.

History of genocidal regimes and the intellectual, political, and policy response to them. Intensive readings in early weeks are followed by research papers and presentations. Course includes travel to Washington (and, possibly, Ottawa) to brief government officials and activists. (EM)

**[HIST 6760 History and Story in the Norse Sagas (also ENGL 4120, HIST 4760)]**

Spring. 4 credits. Next offered 2010–2011.

O. Falk and T. Hill.]

**[HIST 6800 Historical Approaches to Science (also STS 6801)]**

Fall. 4 credits. Next offered 2010–2011.

P. Dear.]

**[HIST 6810 Intellectual History of Empire (also ASIAN 6681)]**

Spring. 4 credits. Next offered 2011–2012.

J. V. Koschmann and N. Sakoi.]

**[HIST 6830 Seminar in American Labor History (also ILRCB 7081)]**

Fall. 3 credits. Prerequisite: graduate standing. Next offered 2012–2013.

N. Salvatore.]

**[HIST 6861 Readings in Japanese Historiography (also ASIAN 6686)]**

Spring. 4 credits. Next offered 2010–2011.

K. Hirano.]

**[HIST 6870 Seminar on Thailand (also ASIAN 6601, HIST 4870)]**

Spring. 4 credits. Next offered 2010–2011.

T. Loos and T. Chaloehtiarana.]

**[HIST 6880 History of Vietnam (also ASIAN 3385/6685, HIST 3880)]**

Fall. 3 credits. Next offered 2010–2011.

K. Taylor.]

**[HIST 6920 Approaches to Medieval Violence (also HIST 4910)]**

Fall. 4 credits. Next offered 2010–2011.

O. Falk.]

**[HIST 6930 Problems in Modern Chinese History (also ASIAN 4493/6693, HIST 4930)]**

Fall. 4 credits. Next offered 2010–2011.

S. Cochran.]

**[HIST 6940 Problems in Modern Chinese History (also ASIAN 4499/6694, HIST 4990)]**

Fall. 4 credits. Prerequisite: HIST 2940 or permission of instructor. Next offered

2011–2012. S. Cochran.]

**[HIST 6950 Premodern Southeast Asia (also ASIAN 3397, HIST 3950)]**

Fall. 4 credits. Next offered 2010–2011.

E. Tagliacozzo.]

**HIST 6960 Southeast Asian History from the 18th Century (also ASIAN 3960/6696, HIST 3960)**

Spring. 4 credits. E. Tagliacozzo.  
For description, see HIST 3960. (AS)

**[HIST 6961 History of Medicine and Healing in China (also ASIAN 4469, BSOC/HIST/STS 4961)**

Spring. 4 credits. Next offered 2010–2011.  
T. J. Hinrichs.]

**[HIST 6970 Jim Crow and Exclusion-Era America (also AAS/HIST 4970, AMST 4970/6970)**

Fall. 4 credits. Limited to 15 students. Next offered 2011–2012. D. Chang.]

**[HIST 6980 Seminar in Japanese Thought (also ASIAN 6698)**

Spring. 4 credits. Prerequisite: reading knowledge of Japanese. Next offered 2010–2011. J. V. Koschmann.]

**HIST 7090 Introduction to the Graduate Study of History**

Fall. 4 credits. Requirement for first-year graduate students. E. Tagliacozzo and D. Corpis.

This course is designed to introduce entering graduate students to crucial issues and problems in historical methodology that cut across various areas of specialization. (HR)

**HIST 7110 Introduction to Science and Technology Studies (also STS 7111)**

Fall. 4 credits. M. Lynch.  
For description, see STS 7111. (HS)

**HIST 8004–8007 Supervised Reading**

4 credits each semester. Prerequisite: graduate standing. Permission of instructor required. Staff. (HR)

**HISTORY OF ART**

S. Samuels, chair; A. Alexandridis, J. E. Bernstock, M. I. Dadi, M. Fernández, C. Finley, S. Hassan, C. Lazzaro, K. McGowan, L. L. Meixner, A. Pan, J. Rickard, C. Robinson

The Department of the History of Art provides a broad range of introductory and advanced courses in art of Europe and the Americas, East and Southeast Asia, Africa, Native American art and Indigenous Studies from antiquity to the present.

**The Major**

Department majors acquire a broad understanding of the history of art in several chronological and geographical areas: ancient, medieval, Renaissance, modern (Europe and the Americas), Southeast Asia, China, Japan, Latin America, and Africa. Additionally, majors practice a range of art historical methods and interpretive strategies, including connoisseurship, dendrochronology, feminism, iconography, semiotics, critical theory, and social history. Majors are encouraged to locate the history of art within allied humanities fields and the applied arts by taking courses in history, literature, history of architecture, and fine arts. The study of foreign languages is strongly encouraged.

**Requirements for the Major**

Prospective majors should consult the director of undergraduate studies. Students wishing to declare a major in the history of art should have completed any two courses above the

1000 level at Cornell in the department by the end of their sophomore year and have received a grade of B or above in both.

Courses must be taken for a letter grade and must be at least a B– to count toward the major. These courses count toward the total 44 credits. The major in the history of art requires 44 credits, 30 at the 3000 level or above. The core requirements are: proseminar; another seminar at the 4000 level or above; two courses on art from the following time periods: Ancient Europe, Medieval/Islamic, or Renaissance/Baroque (one course per time period); two courses on art from the three following geographical areas: Africa, Asia, or Latin America (one course per region); and two courses on modern/contemporary art in Europe and North America, including art from outside the Anglo-American tradition. In addition to the 44 credits, majors are required to take two courses, approved by their advisors, in areas related to the history of art.

**Honors**

To become a candidate for the degree of bachelor of arts with honors in the history of art, a student must have a cumulative average of A– for all courses taken in the department and B+ in all arts and sciences courses.

Application to write an honors thesis should be made to the director of undergraduate studies during the second semester of the junior year. Students are advised to enroll in ARTH 4997 Honors Research at this time. The application must include a summary of the proposed project, an endorsement by a faculty sponsor, and a copy of the student's transcript. In the senior year the honors candidate will include ARTH 4998 and 4999 in his or her course load. These courses address the research and writing of the senior thesis under the direction of the student's project advisor.

**Course Numbering System**

1000-level courses are first-year writing seminars.

2000-level courses are introductions to the major subdivisions of Western art and art outside the West.

3000-level courses are intermediary courses addressing more specialized topics or epochs.

4000-level courses are seminars primarily for advanced undergraduates and graduate students.

6000-level courses are seminars primarily for graduate students.

**First-Year Writing Seminars**

For first-year writing seminar offerings in the history of art, consult the John S. Knight Institute brochure for times, instructors, and descriptions. These courses may not be used to satisfy the distribution requirement or the major.

**Courses****ARTH 2000 Introduction to Visual Studies (also VISST/COML 2000, ENGL 2920) (LA-AS)**

Spring. 4 credits. I. Dadi.  
For description, see VISST 2000.

**ARTH 2019 Thinking Surrealisms (also COML 2200, VISST 2190) (LA-AS)**

Fall. 4 credits. B. Maxwell.  
For description, see COML 2200.

**ARTH 2200 Introduction to Art History: The Classical World (also CLASS 2700) # (HA-AS)**

Spring. 4 credits. K. Fisher.  
The course is an overview of the art and archaeology of the Greek and Roman world, covering the sculpture, vase painting, and architecture of the ancient Greeks from the Geometric period through the Hellenistic, and the art of the Romans from the early Republic to the time of Constantine the Great.

**[ARTH 2221 Archaeology of Roman Private Life (also ARKEO/CLASS 2743) # (CA-AS)**

Spring. 4 credits. Next offered 2011–2012.  
A. Alexandridis.  
For description, see CLASS 2743.]

**[ARTH 2222 Archaeology of Greek Private Life (also CLASS/ARKEO/HIST 2744) # (CA-AS)**

Spring. 3 credits. Next offered 2010–2011.  
K. Bowes.  
For description, see CLASS 2744.]

**[ARTH 2227 Art and Archaeology in the Ancient Mediterranean World (also ARKEO 2728, CLASS 2727) # (HA-AS)**

Fall. 3 credits. Next offered 2011–2012.  
For description, see CLASS 2727.]

**[ARTH 2350 Introduction to Art History: Islamic Art and Culture @ # (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
C. Robinson.  
Spanning the years between the advent of Islam as one of the world's great religions in the early 7th century AD and the end of the 14th century AD. Assignments will include two in-class and two take-home exams plus two shorter writing assignments.]

**[ARTH 2400 Introduction to Art History: Renaissance and Baroque Art (also VISST 2645) # (HA-AS)**

Fall. 4 credits. Each student must enroll in a sec. Next offered 2010–2011. C. Lazzaro.  
A survey of major works of European artists from 1400 to 1700, including all arts, with an emphasis on painting and on analysis of the artworks.]

**ARTH 2402 Survey of European Art: Renaissance to Modern # (CA-AS)**

Summer only. 3 credits. D. Royce-Roll.  
The major traditions and movements in western European art from the Renaissance to the modern period. Painting, sculpture, and architecture with an emphasis on painting. Each Friday class meets at the Herbert F. Johnson Museum of Art with gallery talks and viewing of relevant works that supplement the previous four days of classroom lectures.

**ARTH 2419 Rembrandt and His Circle: Technologies of Vision (also VISST 2419) # (CA-AS)**

Fall. 4 credits. L. Pincus.  
The variety of visual experience in 17th-century Dutch art is legion: still life, portraiture, self-portraiture, landscape, cityscape, genre, and architectural painting. New scientific technologies and trade routes, a robust economy and bustling commerce also place their marks on the cultural and artistic production in the Netherlands. In this course, we will dip into these multiple facets of the Dutch scene, but in critical rather than a general way, in order to assess Dutch "technologies of vision" in picturing and describing their world. Also important will be our inquiry into the context of Dutch art

production: the social, economic, and political factors that made the Dutch art market so unusually vital.

**ARTH 2500 Introduction to the History of Photography (CA-AS)**

Fall. 4 credits. I. Dadi.

Provides a survey of the history of photography over the course of two centuries. Starting with its invention in the 1830s, this course covers the subject topically and chronologically. During the 19th century, it focuses on technical developments and on the complex relations that situate photography in relation to painting, portraiture, urban life, war, anthropology, exploration, and science. During the 20th century, photography has been enriched by new developments that include its use as a modernist and experimental art form, in social documentary and photojournalism, in propaganda, in advertising and fashion, and its centrality in the practice of conceptual art, postmodernism, and in the digital era.

**ARTH 2600 Introduction to Art History: The Modern Era (CA-AS)**

Spring. 4 credits. Not open to students who have taken ARTH 2601. Each student must enroll in a sec. J. Bemstock.

Considers modern art in a historical and cultural context, from painting associated with the French Revolution through American pop art. The emphasis is on major movements and artists: Neo-Classicism (David), Romanticism (Delacroix), Realism (Courbet), Impressionism (Monet), Post-Impressionism (Van Gogh), Cubism (Picasso), Fauvism (Matisse), Surrealism (Miro), Abstract Expressionism (Pollock), and Pop Art (Warhol). Different critical approaches are examined.

**ARTH 3100 History of Photography (LA-AS)**

Summer. 4 credits. I. Dadi.

During the 19th century, it focuses on its technical development and on the complex relations that situate photography in relation to painting, portraiture, urban life, war, anthropology, exploration and travel, and science and industry. While these topics continue to be important during the 20th century, photography has been enriched by new developments that include its use as a modernist and experimental art form, in social documentary and photojournalism, in propaganda, in advertising and fashion, and its centrality in the practice of conceptual art, postmodernism, and in the digital age.

**ARTH 3171 Architectural History of Washington, D.C. # (HA-AS)**

Fall or spring. 4 credits. Prerequisite: students in Cornell in Washington program; nonarchitects. Staff.

Historical and critical survey of the architecture of Washington. Attention is given to the periods, styles, architects, and clients—public and private—of the notable buildings and to the urban landscape of the nation's capital. The vocabulary of architectural analysis and criticism is taught. Field trips required.

**ARTH 3224 Hellenistic Culture: The Age of Alexander: Globalization in the Ancient World? (also CLASS 3744) @ # (CA-AS)**

Spring. 4 credits. A. Alexandridis.

After Alexander the Great's conquest of the Near and Middle East, Greek language, education and material culture was disseminated in a vast area from the

Mediterranean to India and left a long lasting imprint even on areas, like Northern India, that had not previously been under direct Greek influence. On the Greek side, this encounter with so many different peoples and cultures deeply transformed Greek language, religion and material culture itself with simultaneously engendering a canonical idea of "Greekness." The resulting interaction created a manifold amount of mixed and specifically local cultures. The lecture course will analyze this process and try to understand whether it can be understood as a pre-modern example of "globalization." The class will cover the period from the advent of Alexander the Great (336–323 BC) until the end of the last Hellenistic kingdom, the Egypt of Cleopatra VII (51–30 BC). We will focus on phenomena such as urbanization and the formation of civic identities; assimilation and conflict, especially in a Jewish context; the advent of new Eastern religions; economy and trade routes as well as gender relations. The period as a whole has only recently become a focus of combined historical, philological and archaeological research. Therefore, current scholarly debates will form an integral part of the course.

**[ARTH 3230 Iconography of Greek Myth (also CLASS 3727) # (HA-AS)**

Spring. 4 credits. Next offered 2010–2011. A. Alexandridis.

This class will give an overview of the most important Greek myths and mythological figures as depicted in Greek and Roman times.]

**ARTH 3250 Introduction to Dendrochronology (also ARKEO 3090, CLASS 3750) # (HA-AS)**

Fall. 4 credits. S. Manning.

For description, see CLASS 3750.

**ARTH 3300 Romanesque and Early Gothic Art and Architecture: Europe and the Mediterranean, 900 to 1150 AD (also NES 3759) # (LA-AS)**

Spring. 4 credits. Prerequisite: ARTH 2350 or ARTH 2355; freshmen enrollment with permission of instructor only. C. Robinson.

Survey lectures and discussion of the visual cultures (architecture, luxury objects, book illumination and illustration) of the Medieval visual world, including northern and Mediterranean Europe (Ottonian, Romanesque, Early Gothic) and the Islamic World (Al-Andalus, Fatimid Egypt, Jerusalem), from 900–1150 AD. We will pay particular attention to the ways and places in which East and West meet and, following a brief introductory period at the beginning of each half of the semester, also will be engaging the material from a thematic and critical perspective.

**ARTH 3303 History and Popular Culture in Africa (also ASRC/ENGL/HIST 3303)**

Spring. 4 credits. J. Byfield.

For description, see ASRC 3303.

**ARTH 3440 Leonardo, Michelangelo, and Raphael (also VISST 3443) # (HA-AS)**

Spring. 4 credits. C. Lazzaro.

This course focuses on three great Renaissance artists, Leonardo, Michelangelo, and Raphael. It examines each as both thinker and artist, through his writings as well as his painting, sculpture, and architecture. It also analyzes the contemporary constructions of the artist as genius and as courtier in biographies and other writings about them.

Leonardo was an extraordinarily innovative painter partly because of the breadth of his thinking, and we will examine his treatises on artistic practice as well as anatomy, natural science, and engineering. Michelangelo invented grandiose artistic projects for his ambitious patrons, and his novel visual language has parallels with the verbal language in his poetry. Raphael was the consummate court artist, whose activities as antiquarian and archaeologist helped him to produce a new classicism.

**ARTH 3500 African American Art (also ASRC 3500) (LA-AS)**

Fall. 4 credits. C. Finley.

This course investigates the different forms of African-American visual artistic traditions in relation to their historical origins and sociocultural context from the early days of slavery to the present time. We start with an overview of African art and the experiences of the Middle Passage and slavery in relation to African-American traditions in the decorative arts including: pottery, architecture, ironwork, quilt making, and basketry. This is followed by a fine-art survey starting with the 18th and 19th centuries and continuing through the early-20th-century Harlem Renaissance up to the present. Certain issues related to African-American arts and creativity such as improvisation, Black Aesthetic, and Pan Africanism also are explored. Slides, films, and filmstrips are used extensively to illustrate topics discussed. Visits to museums and relevant current exhibitions may be arranged.

**ARTH 3520 African American Cinema @ (LA-AS)**

Fall. 4 credits. S. Hassan.

This course offers an overview of African cinema and filmmaking. It surveys historically the evolution of African cinema from its early days to the present. Through screening of selected African films, different trends within African cinema will be explored, such as "Return to the Sources" and the rediscovery of the pre-colonial past; the "Social Realist" narrative and critique of post-independence Africa; reconstructing the story of colonialism from the perspective of the colonized; and the entertainment genre. Techniques, style, and aesthetics of African cinema will also be discussed. The course offers a unique opportunity of looking at African culture and society, and at issues of social change, gender, class, tradition, and modernization through African eyes.

**[ARTH 3550 Modern and Contemporary Latin American Art (also LATA 3680, LSP 3551) (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.

M. Fernandez.

This course is designed as a thematic survey of Latin American art from the early 20th century to the present.]

**[ARTH 3600 Introduction to Art History: Contemporary Art: 1960 to Present (CA-AS)**

Spring. 4 credits. Prerequisite: ARTH 2600 or equivalent. Next offered 2010–2011. I. Dadi.]

**ARTH 3605 U.S. Art from FDR to Reagan (also AMST 3605) (LA-AS)**

Fall. 4 credits. J. Bernstock.

Considers the contextual features of American art from the 1930s through the late 1980s. Examines art in relation to contemporary politics, society and literature. A few of the

developments on which the course focuses are: Abstract Expressionism, Pop Art, Earth Art, and Feminist Art. Examines various critical approaches.

**[ARTH 3611 Art of South Asia, 1500-present (also ASIAN 3382) @ # (CA-AS)]**

Spring. 4 credits. Next offered 2010–2011.  
I. Dadi.

South Asian art since the early modern era, including Vijaynagar architecture, Mughal art, British colonial art, posters, and modern painting.]

**ARTH 3740 Painting 19th-Century America (also AMST/VISST 3740) # (CA-AS)**

Fall. 4 credits. Recommended: ARTH 2400.  
L. L. Meixner.

Art and everyday life in 19th- and early 20th-century America with an emphasis on Anglo-European traditions. Considers democratic cultures and identities through topical units: the Peale family and America's first public museum; P. T. Barnum's dime museum, traveling circus, and working-class audiences; daguerreotypes and the rising middle class; genre painting and regional types such as the Yankee peddler, Missouri riverboatman, and the frontiersman; Hudson River School and the "tourist sublime"; artist-explorers, Darwin, and Latin America as a spectacle; class and gender construction in the Gilded Age; the Ashcan School, New York City, and urban spectators; immigrants and early documentary photography. Alongside paintings we consider political cartoons, fashion plates, advertisements, and popular illustrations.

**ARTH 3760 Impressionism in Society (also FREN 3610, VISST 3662) # (CA-AS)**

Spring. 4 credits. Not open to freshmen.  
L. L. Meixner.

Discusses French Impressionist art as the product of 19th-century public life. By relating Impressionism to state culture, we trace subversive themes such as criminality, café-concert and brothel societies, clandestine prostitution, and class-regulated leisure. Students consider Parisian spectacle and commodity culture, the rise of the department store and gallery system, and the importance of print culture and photography to the movement. Images include paintings, playbills, posters, and advertisements. Organizing thematic units are theories of vision and power, urban surveillance, the flâneur and flâneuse, voyeurism, and early cinematic spectatorship. Artists include Manet, Monet, Atget, Cassatt, Degas, Tissot, Toulouse-Lautrec, and Van Gogh.

**ARTH 3800 Introduction to the Arts of China (also ASIAN 3383/ARKEO 3800) @ # (LA-AS)**

Fall. 4 credits. A. Pan.

This course offers a survey of the art and culture of China, from the Neolithic period to the 20th century. We begin with an inquiry into the meaning of national boundaries and the controversy of the Han Chinese people, which helps us identify the scope of Chinese culture. Pre-dynastic (or prehistoric) Chinese culture is presented through both legends about the origins of the Chinese, and scientifically excavated artifacts. Art of the dynastic and modern periods is presented in light of contemporaneous social, political, geographical, philosophical and religious contexts. Students work directly with objects in the Herbert F. Johnson Museum of Art.

**[ARTH 3820 Introduction to the Arts of Japan (also ASIAN 3381) @ # (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
A. Pan.

As an island nation east of the Asian continent, Japan developed a unique culture that reflects both continental and indigenous characteristics. This course examines pre- and post-contact with continental culture and the process of artistic acculturation and assimilation in successive periods of Japanese art history.]

**ARTH 3850 The Arts of Southeast Asia (also ASIAN 3350/VISST 3696) @ # (CA-AS)**

Fall. 4 credits. K. McGowan.

The arts of Southeast Asia will be studied in their social context, since art plays a role in most of the salient occasions in life in traditional societies. Special emphasis will be devoted to developments in Indonesia, Thailand, and Cambodia. Among topics covered will be the shadow puppet theater of Java, textiles, architecture, sculpture, and Bali's performance tradition.

**ARTH 3855 The House and the World: Architecture of Asia (also ASIAN 3394, VISST 3655) @ # (HA-AS)**

Spring. 4 credits. K. McGowan.

In many Asian societies, houses are regarded as having a vitality of their own. This course will examine the role of the house as a living organism in Asia. Houses also function as storehouses for material and immaterial wealth; artifacts such as textiles, jewelry, sculptures, and masks function within the house as ancestral heirlooms, conveying their own currents of life force, the power from which serving to blend with the vitality of the house. The indigenous architectural traditions of India, Vietnam, Thailand, Indonesia, and the Philippines will be examined. By studying the inhabited spaces of others, divining their technologies of construction and their applied symbologies, students will be provided with powerful tools for examining the visual skills and sensibilities of other cultures.

**ARTH 3915 Art in the Modern World (also ANTHR 3415) (CA-AS)**

Summer only. 4 credits.

For description, see ANTHR 3415.

**Seminars**

Courses at the 4000 to 6000 level are open to juniors and seniors, majors, and graduate students unless otherwise stated. All seminars involve the writing and presentation of research papers. Enrollment is limited to 15 students. Students may repeat courses that cover a different topic each semester.

**ARTH 4100 Proseminar (also VISST 4200, ARTH 6100) (HA-AS)**

Spring. 4 credits. Limited enrollment.  
Prerequisite: history of art majors. Grads should enroll in ARTH 6100. I. Dadi.

Works of art have always engendered political, social, and cultural meanings. This seminar introduces the methods that art historians have engaged in, studying the objects and ideas that constitute the historiography of their discipline. Challenged and enlarged by cultural debates over issues of class, ethnicity, nationality, sexual orientation, and gender, the field of art history is expanding to incorporate problems of assessing quality of intention and reception along with authorship, of artistic production in place of artistic creation, and of Western-oriented attitudes to race in reference to orientalism and colonialism. Readings focus

on historically situating methods and the implications of their cross-cultural application. Papers encourage students to put methods into practice, realizing in the process that subject matter is not an isolated choice to which methods are applied, but something that profoundly affects the approach the researcher brings to the writing of art history. In addition to the seminar meeting from 2:30 to 4:30, students are required to attend the Visual Culture Colloquium held on most Mondays from 5 to 6:30 p.m.

**ARTH 4107 The Museum and the Object (also VISST 4607) (CA-AS)**

Fall. 4 credits. Prerequisite: history of art majors; freshmen and sophomores by permission of instructor. All classes meet in Johnson Art Museum study gallery.  
K. McGowan.

Gives advanced students the opportunity to work directly with original objects from the collection in the Herbert F. Johnson Museum. Focuses on art and connoisseurship by questioning the ways quality is determined in works of art. Topics include methods of attribution, fakes and forgeries, technique and media, restoration and conservation, art education and theories of perception. Session leaders include the curatorial staff of the art museum.

**[ARTH 4150 Intro to Critical Theory (also ARTH 6170) (CA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
M. Fernandez.

This seminar will introduce students to theoretical texts relevant to multiple areas in the history of art and visual culture.]

**[ARTH 4236 Sexuality in Greek and Roman Art (also ARTH 6236, CLASS 4733) # (CA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
A. Alexandridis.]

**ARTH 4305 Looking for Love: Visual and Literary Cultures of Love in the Medieval Mediterranean 1100–1400 AD (also NES 4795)**

Spring. 4 credits. C. Robinson. Prerequisite: Permission of instructor required.

A comparative and interdisciplinary seminar whose focus is the visual world created by the pan-Mediterranean (Iberian Peninsula, Maghreb, France, Italy, Turkey, Egypt, and Persia) culture of "Courtly Love" beginning during the 11th century AD, and continuing as a principle factor in medieval cultural production for the remainder of the period. Particular attention will be paid to the ways in which the visual dimensions of this culture nuance, compliment, contradict, or at times even exist independently of, its oral and written spheres. Reading knowledge of any Romance or Semitic language and/or Persian, in addition to English, is highly advantageous.

**[ARTH 4311 The Multicultural Alhambra (also NES 4511)]**

Spring. 4 credits. Next offered 2010–2011.  
C. Robinson.

An interdisciplinary seminar structured around the mythic palace built by the Nasrid dynasty in Granada, Spain.]

**[ARTH 4331 Topics in Islamic Art (also ARTH 6331, NES 4731/6731) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
C. Robinson.]

**ARTH 4440 Constructing the Self in the 16th Century (also ARTH 6440) # (HA-AS)**

Spring. 4 credits. C. Lazzaro.

This seminar examines the construction of the self through gender, class, and group identity in early modern Europe, especially Italy. Portraits, self-portraits, and autobiographies recorded self-fashioning in clothing, bearing, gesture, manners, and speech, while etiquette manuals instructed in civility, the mark of class and education. The course considers some of the public and private settings in which the social self was performed, among them studies and banquets, as well as such socially constructed identities as the male adolescent and the female poet.

**[ARTH 4445 Nature, Cultural Landscape, and Gardens in Early Modern Europe (also ARTH 6445)]**

Fall. 4 credits. Next offered 2010-2011. C. Lazzaro.

Examines cultural understandings of nature in early modern Europe, especially Italy.]

**[ARTH 4451 Prints and Visual Culture in Early Modern Europe (also VISST 4451, ARTH 6451) # (HA-AS)]**

Fall. 4 credits. Meets at the Johnson Museum. Next offered 2011-2012. C. Lazzaro.]

**ARTH 4506 Caribbean Dialogs: Online! @ (CA-AS)**

Summer only. 4 credits. P. Archer-Straw. Using Caribbean art as a case study, the course explores themes such as new world history, colonialism, Diaspora, trauma, violence and tourism. Through an understanding of basic cultural theory, class members come to see how perceptions of Caribbean culture are historically fluid and subject to variation as they are categorized and textualized. Similarly through active participation students are invited to question their own considerations of identity, culture, race and ethnicity. Caribbean Dialogs: Online! examines the imaginary, creative spirit of the region's artists to show ways that they are reconfiguring themselves to meet the needs of a changing world at once apprehensive but also charmed by black culture.

**[ARTH 4508 Exhibiting Cultures: Museums, Monuments, Representation and Display (also AMST 4508/6508, ARTH 6508, ASRC 4504/6508) (CA-AS)]**

Fall. 4 credits. Grad students should enroll in 6508. Next offered 2010-2011. C. Finley.]

**ARTH 4509 Black Arts Movement (also ASRC 4505, AMST 4509) (CA-AS)**

Summer. 4 credits. C. Finley.

This distance learning course examines the art, music, literature and film of African Americans during the 1960s. The Black Arts Movement was an explosive cultural flourishing that emerged in the United States in the wake of African liberation and decolonization movements abroad in Civil Rights and Black Power movements locally and internationally.

**ARTH 4600 Studies in Modern Art (LA-AS)**

Fall. 4 credits. Permission of instructor required.

This seminar examines both feminist art criticism and the work of women artists from antiquity to the present. We consider the works of the most prominent women artists

from each period in relation to the changing roles of women in society. The artists covered include Jennifer Barlett, Artemisa Gentileschi, Elizabeth Vigee-Lebrun, Mary Cassatt, Kathe Kollwitz, Georgia O'Keefe, Louise Nevelson, Joan Mitchell, Judy Chicago, and Barbara Kruger.

**[ARTH 4690 Comparative Modernities (also ARTH 6690, VISST 4641) @ (CA-AS)]**

Fall. 4 credits. Next offered 2010-2011. I. Dadi.]

**ARTH 4695 Studies in Global Modern Art (also ARTH 6695) @ # (CA-AS)**

Fall. 4 credits. I. Dadi.

Topic for fall 2009: Orientalism and Modern Art of the Middle East: This seminar explores how the "Orient" has been visually represented in Western art, architecture, literature, and media since the 19th century. Popular and scholarly ideas about the Orient and Orientalism have come under increasing scrutiny since the publication of Edward Said's influential critique. Explores debates surrounding Said's critique, and also discuss its salience in the analysis of modern and contemporary art and visual culture. Includes discussions of French Orientalist paintings; Hollywood depictions of the Orient; national independence movements that redeployed colonial textual and visual archives to formulate the national past. Examines the strategies of modern and contemporary artists from the Middle East who have appropriated, resisted and bypassed the troupe of Orientalism altogether.

**ARTH 4696/6696 The Art Market (also ARTH 6696) (LA-AS)**

Fall. 4 credits. C. Finley.

This course will examine the history of the art market, from the 16th century to the present. We will study the production, sale and exchange of works of art as well as the patrons, artists and collectors who participate in this economic, social and political form of taste-making and aesthetic valuation. Students will learn about noted patrons of the arts, such as the Medici family in Renaissance Italy, our main focus will be on the creation of a global art market in the 20th century. Using case studies, sample topics include: the patterns of transportation, exchange and trade; the interaction of collectors, critics and curators; the spaces and contexts of display of contemporary collections; auction houses and commercial galleries; and fakes, forgeries, thefts and scandals. Special attention will be paid to considering the contemporary art market (post-1980) and the collecting, exchange and valuation of film, photography, painting, performance and installation art. Global markets for the exchange of art in Asia, Europe Africa, North America and South America will be highlighted as well as the exhibitions of contemporary art such as Art Basel, the Cairo Biennale and the Venice Biennale that fuel these markets.

**ARTH 4761 Art and Social Histories (also AMST, VISST 4761) (CA-AS)**

Fall and spring. 4 credits. Permission of instructor required. Auditing not permitted. Not open to freshmen.

Topic for fall 2009: Public Culture and the Great Depression. Seminar explores public art and poplar entertainments as the means for everyday people to politically engage or escape the Great Depression (1929-41). Discussions include Living Newspapers, the

Federal Theater Project, Union-sponsored theater including Pins and Needles, WPA muralists and printmakers, FSA photographers, Social Realists including Ben Shahn, Reginald Marsh, and Philip Evergood, alongside Grant Wood and the Regionalists. Connecting these is FDR's New Deal and its controversial government support for the arts. We consider big bands and swing, pulp and comic strips, star tabloids, Depression-era Hollywood gangster films, screwball comedies, and Fred Astaire and Ginger Rogers spectacles. Will examine the importance of early radio in the home through FDR's fireside chats, soap operas, and serial thrillers such as the Shadow. Students will draw on the American Memory Project, documentaries, and the Johnson Art Museum collections. Films include *It Happened One Night*, *Gay Divorcee*, *Double Indemnity*, and Woody Allen's *Radio Days*.

**ARTH 4771 Indigenous Art, Film, and New Media: Anti-Colonial Strategies (also ARTH 6771, COML 4771/6771) (CA-AS)**

Fall. 4 credits. J. Rickard.

This course examines Indigenous art, new media, and film from three distinct interrelated perspectives of aesthetics/theory, technology, and history/culture. The relationship between technology and tradition reevaluates established assumptions between representation, power, and the gaze. Decolonizing methodologies will establish the translatability of Indigenous oral tradition to visual expression as a form of cultural agency. The use of media as a cultural and political intervention will be discussed through the work of Hopi filmmaker Victor Masayesva, Inuit filmmaker Zacharias Kunuk, the Kayapo Media Collective, Aboriginal artist Tracy Moffat, new media artist; Mohawk, Skawanati, Maori photographer John Miller, and more. The construction, circulation, and reception of Indigenous visual culture will be discussed within a transnational, diasporic, and global frame.

**[ARTH 4815 Buddhist Arts of China (also ARTH 6815) @ # (CA-AS)]**

Fall. 4 credits. Next offered 2010-2011. A. Pan.]

**ARTH 4818 Exhibition Seminar (also ARTH 6818) @ (CA-AS)**

Fall. 4 credits. A. Pan.

Public display of art objects and artifacts involves more than just artistic presentations. How is the title selected? What (whose) work is included? How are they displayed? How are they framed in the exhibition space as well as in an exhibition catalogue? These complex issues are integral to exhibition discourse. Students review past exhibitions and design a new exhibition based on the collection at the Herbert F. Johnson Museum of Art. The final product will be on view to the public and will be accompanied by an exhibition catalogue co-authored by all participants in the seminar. Students will learn how to engage in academic and scholarly inquiry of issues related to exhibition design, and will experience hands-on aspects of museum work related to organizing an exhibition.

**ARTH 4821 Mobility and Invention (also SHUM/VISST 4821)**

Fall. 4 credits. Limited to 15 students. M. Fernandez.

For description, see SHUM 4821.

**ARTH 4825 African Port Cities: Empire Building at the Crossroads (also ASRC 4607, SHUM/VISST 4825)**

Fall. 4 credits. Limited to 15 students.  
P. Meier.

For description, see SHUM 4825.

**ARTH 4855 Threads of Consequence: Textiles in South and Southeast Asia (also ASIAN 4487)**

Spring. 4 credits. K. McGowan.

From boldly patterned cotton mantles to simple working garments, sumptuous silks to embroidered story cloths encircling shrines—textiles play a salient role in the ceremonial and ritual life of many Asian societies. This seminar explores how patterned cloths serve as a symbolic medium, functioning on multiple levels of understanding and communication. As spun, dyed, and woven threads of consequence, textiles can be seen to enter into all phases of social, economic, political, religious, and performance processes, often assuming unusual properties and attributes. As bearers of talismanic messages, signifiers of rank, and as the recipients of influences from maritime trade and touristic demand, textiles are read between the folds of complex exchange mechanisms in South and Southeast Asia.

**ARTH 4858 Dancing the Stone: Body, Memory, and Architecture (also ASIAN 4456)**

Spring. 4 credits. Prerequisite: permission of instructor. K. McGowan.

This course examines the role of temples and their sculptural programs in South and Southeast Asia as a creative stimuli for performative reenactments. Choreographic encounters between imagination and memory are mapped as they occur at various points historically and politically in Java, Bali, Cambodia, and India. Because architectural choreography implies the human body's inhabitation and experience of place, the nature of ritualized behavior and its relationship to performance and politics is explored spatially, both in organizing experience and defining or redefining identity on colonial, national, and diasporic margins. Students have the unique opportunity to balance the demands of learning a Javanese traditional dance and/or its musical accompaniment, taught by visiting artists while exploring performance traditions in historical perspective.

**ARTH 4934 Art Writing: Tracing the Visible (also SHUM/VISST 4934)**

Spring. 4 credits. Limited to 15 students.  
M. Jacobus.

For description, see SHUM 4934.

**ARTH 4991 Independent Study**

Fall. 1–4 credits; may be repeated for credit. Prerequisite: permission of department faculty member.

Individual investigation and discussion of special topics not covered in the regular course offerings, by arrangement with a member of the department.

**ARTH 4992 Independent Study**

Spring. 1–4 credits; may be repeated for credit. Prerequisite: permission of department faculty member.

Individual investigation and discussion of special topics not covered in the regular course offerings, by arrangement with a member of the department.

**ARTH 4997 Honors Research**

Fall or spring. 2 credits. Staff.

The prospective honors student does rigorous independent readings supervised by a selected thesis advisor. By the end of the semester, an annotated bibliography and detailed outline of the thesis should be completed.

**ARTH 4998 Honors Work I**

Fall. 4 credits. Intended for senior art history majors who have been admitted to the honors program.

Basic methods of art historical research are discussed and individual readings assigned, leading to selection of an appropriate thesis topic.

**ARTH 4999 Honors Work II**

Spring. 4 credits. Prerequisite: ARTH 4998.

The student under faculty direction prepares a senior thesis.

**ARTH 5991–5992 Supervised Reading**

5991, fall; 5992, spring. 1–4 credits; may be repeated for credit. Prerequisite: graduate standing.

**ARTH 5993–5994 Supervised Study**

5993, fall; 5994, spring. 1–4 credits; may be repeated for credit. Prerequisite: graduate standing.

**ARTH 6060 Visual Ideology (also GERST 6600)**

For description, see GERST 6600.

**ARTH 6100 Proseminar (also ARTH 4100, VISST 4200)**

Spring. 4 credits. Limited enrollment. Undergraduates should enroll in ARTH 4100. I. Dadi.

For description, see ARTH 4100.

**[ARTH 6170 Intro to Critical Theory (also ARTH 4150)**

Fall. 4 credits. Next offered 2010–2011.  
M. Fernandez.

For description, see ARTH 4150.]

**[ARTH 6252 Research Methods in Archaeology (also CLASS 7742)**

Spring. 4 credits. Next offered 2010–2011.  
S. Manning.

For description, see CLASS 7742.]

**ARTH 6305 Dress, Cloth, and Identity in Africa and the Diaspora (also ASRC/HIST/ANTHR/FSAD 6305)**

Spring. 4 credits. J. Byfield.  
For description, see ASRC 6305.

**[ARTH 6311 The Multicultural Alhambra (also ARTH 4311, NES 4511)**

Spring. 4 credits. Next offered 2010–2011.  
C. Robinson.

For description, see ARTH 4311.]

**[ARTH 6331 Topics in Islamic Art (also ARTH 4331, NES 4731/6731)**

Fall. 4 credits. Next offered 2010–2011.  
C. Robinson.]

**ARTH 6440 Constructing the Self in the 16th Century (also ARTH 4440)**

Spring. 4 credits. C. Lazzaro.  
For description, see ARTH 4440.

**[ARTH 6445 Nature, Cultural Landscape, and Gardens in Early Modern Europe (also ARTH 4445)**

Fall. 4 credits. Next offered 2010–2011.  
C. Lazzaro.

For description, see ARTH 4445.]

**[ARTH 6508 Exhibiting Cultures: Museums, Monuments, Representation and Display (also AMST 4508/6508, ARTH 4508, ASRC 4504/6508)**

Spring. 4 credits. Undergraduates should enroll in ARTH 4508. Next offered 2010–2011. C. Finley.

For description, see ARTH 4508.]

**[ARTH 6690 Comparative Modernities (also ARTH 4690, VISST 4641)**

Fall. 4 credits. Next offered 2010–2011.  
I. Dadi.

For description, see ARTH 4690.]

**ARTH 6695 Studies in Global Modern Art (also ARTH 4495)**

Fall. 4 credits. I. Dadi.

For description, see ARTH 4495.

**ARTH 6696 The Art Market (also ARTH 4696)**

Fall. 4 credits. C. Finley.

For description, see ARTH 4696.

**ARTH 6771 Indigenous Art, Film, and New Media: Anti-Colonial Strategies (also ANTHR 4771/6471, ARTH 4771, COML 4771/6771)**

Fall. 4 credits. J. Rickard.

For description, see ARTH 4771.

**ARTH 6818 Exhibition Seminar (also ARTH 4818)**

Fall. 4 credits. A. Pan.

For description, see ARTH 4818.

## HUMAN BIOLOGY PROGRAM

J. Haas, nutritional sciences, director (220 Savage Hall, 255–2665); A. Clark (molecular biology and genetics); P. Cassano (nutritional sciences); B. Finlay (psychology); J. Fortune (physiology/women's studies), E. Frongillo (nutritional sciences), R. Johnston (psychology), K. A. R. Kennedy (ecology and systematics/anthropology), D. Levitsky (nutritional sciences), D. L. Pelletier (nutritional sciences), W. Provine (ecology and systematics/history), S. Robertson (human development), R. Savin-Williams (human development), M. Small (anthropology)

Human biology integrates the methods and theories of many disciplines, such as biological anthropology, nutrition, neurobiology, physiology, psychology, demography, ecology, genetics, and paleontology into a comprehensive study of biological diversity in *Homo sapiens*. A central focus of this interdisciplinary approach to the study of the human organism is an understanding of evolutionary processes that explain our biological variation through space and time. The curriculum of study seeks to educate future biological scientists to address the concerns of a society that is becoming more demanding of the scientific community to place its specialized biological knowledge in a broad context. The human biology curriculum is of particular relevance to undergraduate students in premedical and pre-dentistry programs, biological anthropology, nutrition, human development, ecology and evolutionary biology, psychology, physiology, genetics, and the health-related sciences. It serves to bring together students who have a common interest in humankind as defined from these diverse fields and to provide a forum for student–faculty interaction on various topics relating to human evolution

and biological diversity. Human biology is not a major but a curriculum of study that provides majors in various departments and colleges with a program for selecting elective courses that deal with the biology of the human species. Students after their freshman year may develop a program of study in human biology while majoring in any one of a number of different departmental fields.

### Basic Requirements

The requirements for a program of study in human biology are designed to ensure sufficient background in physical sciences and mathematics to enable the student to pursue a wide range of interests in the fields of modern biological sciences, anthropology, and fields related to the evolution and biological diversity of the human species. Adjustments may be made in these requirements, depending on the student's academic background and affiliation with colleges and schools within the university.

The basic requirements are one year of introductory biology (BIOG 1101-1103 plus 1102-1104 or 1105-1106 or BIOG 1107-1108 offered during the eight-week Cornell Summer Session); one year of general chemistry (CHEM 2070-2080 or 2150-2160); one course of college mathematics (MATH 1110, 1106, or 1105 or equivalent); one course in genetics (BIOGD 2800, 2810, or 2820); one course in biochemistry (BIOBM 3300, 3310, 3320, or 3330 or NS 3200). It is recommended that students planning graduate study in biological anthropology, psychology, and related fields in the medical and nutritional sciences take a course in statistics. Students should consult their faculty advisor in human biology for help in selecting appropriate courses.

Elective courses should be taken that enable the student to acquire breadth in the subject matter of human biology outside of their departmental major. Therefore only 6 of the 15 human biology elective credits may also fulfill requirements for the major. Courses should be selected that also provide sufficient exposure to the integration of basic anatomical and physiological sciences with the behavior of individuals and groups within the context of evolutionary theory and ecology. The courses listed below are representative of the offerings in human biology and are included to assist the student in organizing a curriculum of study. They are organized into three groups that reflect the three levels of integration noted above: (1) human anatomy and physiology, (2) human behavior, and (3) human evolution and ecology. Students should choose at least one course from each of these areas of integration. It is anticipated that the student will include in a program of study at least one of the laboratory courses offered. It is expected that a student will take a minimum of 15 credits from among these courses.

There is no foreign language requirement for human biology beyond what is dictated by specific departments and colleges. The requirements for the human biology curriculum are set alongside requirements of the undergraduate majors as these are defined by different departments. Students with independent majors may design their own programs of study under the guidelines provided by their college. Although a student may indicate an interest in human biology in the freshman year and be able to obtain early guidance from a faculty advisor representing

the curriculum of study, it is more usual for students to establish their course programs in the first semester of the junior year. The student may request one of the faculty advisors in his or her department who is listed as faculty in human biology to be their principal advisor, or he or she may have an advisor in the department of the major and seek the advice of a human biology faculty advisor in matters pertaining to satisfaction of the requirements. In certain cases a faculty advisor may represent both the major and the curriculum of study in human biology.

### Courses

#### Human Anatomy and Physiology

##### ANSC 4100 Nutritional Physiology and Metabolism

Fall. 3 credits.

##### BIOAP 2140 Biological Basis of Sex Differences (also BSOC 2141, FGSS 2140)

Spring. 3 credits.

##### BIOAP 3110 Introductory Animal Physiology, Lectures (also VETPH 3460)

Fall. 3 credits.

##### BIOAP 3190 Animal Physiology Experimentation

Fall. 4 credits.

##### BIOAP 4270 Fundamentals of Endocrinology

Fall. 3 credits.

##### BIOAP 4580 Mammalian Physiology

Spring. 3 credits.

##### BIOBM 4340 Applications of Molecular Biology to Medicine, Agriculture, and Industry

Fall. 3 credits.

##### BIOBM 4390 Molecular Basis of Human Disease (also BIOGD 4390)

Fall. 3 credits.

##### BIOGD 4870 Human Genomics

Fall. 3 credits.

##### BIOMI 4170 Medical Parasitology (also VETMI 4310)

Fall. 2 credits.

##### FDSC 1500 Food Choices and Issues

Spring. 2 credits.

##### FSAD 4390 Biomedical Materials and Devices for Human Body Repair

Spring. 2-3 credits.

##### NS 1150 Nutrition, Health, and Society

Fall. 3 credits.

##### NS 1220 Nutrition and the Life Cycle

Spring. 3 credits.

##### NS 3150 Obesity and the Regulation of Body Weight (also PSYCH 3150)

Spring. 3 credits.

##### NS 3220 Maternal and Child Nutrition

Spring. 3 credits.

##### NS 3310 Physiological and Biochemical Bases of Human Nutrition

Spring. 4 credits.

##### NS 3410 Human Anatomy and Physiology

Spring. 3 credits.

##### NS 3420 Human Anatomy and Physiology Laboratory

Spring. 2 credits.

##### NS 3610 Biopsychology of Normal and Abnormal Behavior (also PSYCH 3610)

Fall. 3 credits.

##### NS 4210 Nutrition and Exercise

Spring. 3 credits.

##### NS 4310 Mineral Nutrition and Chronic Disease

Fall. 3 credits.

##### NS 4410 Nutrition and Disease

Fall. 4 credits.

##### NS 4750 Mechanisms Underlying Mammalian Developmental Defects (also BIOAP 4750)

Spring. 3 credits.

##### NS 6140 Topics in Maternal and Child Nutrition

Fall. 3 credits.

##### PSYCH 3220 Hormones and Behavior (also BIONB 3220)

Fall. 3 or 4 credits.

##### PSYCH 4250 Cognitive Neuroscience

Fall. 4 credits.

#### Human Behavior

##### ANTHR 3305 Anthropology of Parenting

Spring. 3 credits.

##### ANTHR 3390 Primate Behavior and Ecology

Spring. 4 credits.

##### ANTHR 4930 Topics in Biological Anthropology

Spring. 4 credits.

##### BIONB 3310 Human Sociobiology

Spring. 3 credits.

##### BIONB 3920 Drugs and the Brain

Fall. 4 credits.

##### BIONB 4210 Effects of Aging on Sensory and Perceptual Systems (also PSYCH 4310/6310)

Fall. 3 or 4 credits.

##### BIONB 4270 Darwinian Medicine

Fall. 4 credits.

##### BIONB 4280 Clinical Neurobiology

Fall. 3 credits.

##### BIONB 4310 Genes and Behavior

Spring. 3 credits.

##### BIONB 4960 Bioacoustic Signals in Animals and Man

Fall. 3 credits.

##### BIOPL 2470 Ethnobiology

Fall. 3 credits.

##### BIOPL 3480 The Healing Forest

Spring. 2 credits.

##### BIOPL 3800 Strategies and Methods in Drug Discovery

Spring. 2 credits.

##### BIOPL 4420 Current Topics in Ethnobiology

Fall. 3 credits.

##### BSOC 2051 Ethical Issues in Health and Medicine (also STS 2051)

Fall. 4 credits.

**DEA 3250 Human Factors: Ergonomics—Anthropometrics**

Fall. 3 credits.

**DEA 3500 Human Factors: The Ambient Environment**

Spring. 3 credits.

**DEA 4700 Applied Ergonomic Methods**

Spring. 3 credits.

**HD 2200 The Human Brain and Mind: Biological Issues in Human Development (also COGST 2200)**

Fall. 3 credits.

**HD 3200 Human Developmental Neuropsychology**

Spring. 3 credits.

**HD 3440 Infant Behavior and Development**

Fall. 3 credits.

**HD 4330 Developmental Cognitive Neurosciences (also COGST 4330)**

Spring. 3 credits.

**NS 2450 Social Science Perspectives on Food and Nutrition**

Fall. 3 credits.

**NS 3470 Human Growth and Development: Biological and Behavioral Interactions (also BSOC 3471, HD 3470)**

Spring. 3 credits.

**NS 3610 Biopsychology of Normal and Abnormal Behavior (also PSYCH 3610)**

Fall. 3 credits.

**PAM 3800 Human Sexuality**

Spring. 4 credits.

**PSYCH 2230 Introduction to Biopsychology**

Fall. 3 credits.

**PSYCH 3260 Evolution of Human Behavior**

Spring. 4 credits.

**PSYCH 3320 Biopsychology of Learning and Memory (also BIONB 3280)**

Spring. 3 credits.

**PSYCH 4250 Cognitive Neuroscience (also BIONB 4230)**

Fall. 4 credits.

**PSYCH 4270 Evolution of Language (also COGST 4270)**

Fall. 3 credits.

**PSYCH 4400 The Brain and Sleep**

Fall. 4 credits.

**Human Evolution and Ecology****ANTHR 1300 Human Evolution: Genes, Behavior, and the Fossil Record**

Fall. 3 credits.

**ANTHR 2200 Early People: The Archaeological and Fossil Record (also ARKEO 2200)**

Spring. 3 credits.

**ANTHR 3305 Anthropology of Parenting**

Spring. 4 credits.

**ANTHR 3375 Evolutionary Theory and Human Behavior**

Spring. 4 credits.

**ANTHR 3390 Primate Behavior and Ecology**

Spring. 4 credits.

**ANTHR 4390 Topics in Biological Anthropology**

Spring. 4 credits.

**BIOEE 2070 Evolution**

Fall or summer. 3 credits.

**BIOEE 2780 Evolutionary Biology**

Fall or spring. 3 or 4 credits.

**BIOEE 3710 Human Paleontology (also ANTHR 3710)**

Fall. 4 credits.

**BIOEE 4640 Macroevolution**

Spring. 4 credits.

**BIOEE 4690 Food, Agriculture, and Society (also BSOC/STS 4691)**

Spring. 3 credits.

**BIOGD 4810 Population Genetics**

Fall. 4 credits.

**BIOGD 4820 Human Genetics and Society**

Fall. 4 credits.

**BIOGD 4840 Molecular Evolution**

Spring. 3 credits.

**BIOGD 4870 Human Genomics**

Fall. 3 credits.

**BTRY 4830 Quantitative Genomics and Genetics**

Spring. 4 credits.

**DSOC 2010 Population Dynamics (also SOC 2202)**

Spring. 3 credits.

**DSOC 2200 Sociology of Health of Ethnic Minorities (also LSP 2200)**

Fall. 3 credits.

**DSOC 4100 Health and Survival Inequalities (also SOC 4100)**

Fall. 4 credits.

**ENTOM 3070 Pesticides, the Environment, and Human Health**

Fall. 2 credits.

**ENTOM 3520 Medical and Veterinary Entomology**

Fall. 3 credits.

**NS 2060 Introduction to Global Health**

Spring. 3 credits.

**NS 2750 Human Biology and Evolution (also ANTHR 2750)**

Fall. 3 credits.

**NS 3060 Nutritional Problems of Developing Nations**

Spring. 3 credits.

**NS 3350 Epidemiology in Context**

Spring. 3 credits.

**NS 4500 Public Health Nutrition**

Spring. 2 credits.

**NS 4570 Economics of Hunger and Malnutrition (also ECON 4740)**

Spring. 3 credits.

**NS 4600 Explorations in Global Health**

Spring. 3 credits.

**NS 6520 Foundations of Epidemiology**

Spring. 3 credits.

**PAM 4380 Economics of Public Health**

Fall. 3 credits.

**PSYCH 3260 Evolution of Human Behavior**

Spring. 4 credits.

**PSYCH 4720 Evolution of Language (also COGST 4270)**

Fall. 3 credits.

**VETMI 4310 Medical Parasitology (also BIOMI 4170)**

Fall. 2 credits.

**VTPMD 6640 Introduction to Epidemiology**

Fall. 3 credits.

**HUNGARIAN**

See "Department of Linguistics" and "Russian."

**INDEPENDENT MAJOR PROGRAM**

J. Finlay, director, 55 Goldwin Smith Hall, 255-5004.

The Independent Major Program is described in the introductory section of "College of Arts and Sciences."

**IM 3510 Independent Study**

Fall or spring. 1–4 credits. Prerequisite: permission of program director.

**IM 4990 Honors Research**

Fall or spring. 1–8 credits; max. of 8 credits may be earned for honors research. Prerequisite: permission of program director. Each participant must submit brief proposal approved by Honors Committee.

**INDONESIAN**

See "Department of Asian Studies."

**INEQUALITY MINOR**363 Uris Hall  
www.inequality.cornell.edu  
254-8674

The study of inequality lies at the heart of current debates about segregation, affirmative action, the "glass ceiling," globalization, and any number of other contemporary policy issues. In recent years, public and scholarly interest in issues of inequality has intensified, not merely because of historic increases in income inequality in the United States and other advanced industrial countries, but also because inequalities of race, ethnicity, and gender are evolving in equally dramatic and complicated ways.

The inequality minor allows undergraduate students to supplement their studies for their major with a coherent program of courses oriented toward the study of inequality. Although Cornell University is a leading center of scholarship on poverty and inequality, this strength is necessarily distributed across many departments and colleges; an interdisciplinary minor thus allows students to combine these resources into an integrated program of study. The institutional home for the inequality minor is the Center for the Study of Inequality

(located at 363 Uris Hall and at [www.inequality.cornell.edu](http://www.inequality.cornell.edu)).

The inequality minor is appropriate for students interested in government service, policy work, and related jobs in non-governmental organizations (NGOs) as well as students who wish to pursue post-graduate education in such fields as public policy, economics, government, law, history, psychology, sociology, anthropology, literature, and philosophy. In many of these fields, the study of inequality is becoming increasingly central and fundamental, and the inequality minor can therefore provide students with a valuable and unique foundation for further study.

The inequality minor is an interdisciplinary program that should be completed in conjunction with a major. The minor is open to students enrolled in any of the seven Cornell undergraduate colleges. When the requirements of the minor are met, a certification is recorded on a student's academic record.

### Minor Requirements

The inequality minor exposes students to a breadth of approaches, methods, and topic areas while also allowing them to tailor a program to their particular interests. The requirements are as follows:

#### 1. Overview Course

The required overview course may be selected from any of the eight courses listed below. When possible, the overview course should be completed early in the program, as it serves to define the field and to expose students to areas and topics that might be explored in future course work.

- Income Distribution (ILRLE 4410)
- Inequality, Diversity, and Justice (CRP/SOC 2930, GOVT 2935, PHIL 1930)
- Social Inequality (SOC 2208 and DSOC 2090)
- Comparative Social Inequalities (DSOC 3700 and SOC 3710)
- Organizations and Social Inequality (ILROB 6260)
- Racial and Ethnic Differentiation (PAM/SOC 3370)

#### 2. Controversies About Inequality

(DSOC/ILROB/PAM/SOC 2220, GOVT 2225, PHIL 1950)

This 3-credit course introduces students to current controversies in the study of inequality while facilitating interdisciplinary dialogue between concentrators and faculty members at Cornell University. Students are exposed to research on inequality under way at Cornell presented by guest lecturers and also participate in debates on pressing inequality-relevant issues (e.g., welfare reform, school vouchers, immigration policy, affirmative action).

#### 3. Electives

In addition to the overview course and core course, students must select four electives from the list of qualified courses. This list can be viewed on the web site for the Center for the Study of Inequality, [www.inequality.cornell.edu](http://www.inequality.cornell.edu). Although students may tailor their programs to match their interests, the electives and overview course must be distributed

across at least three departments (thereby ensuring breadth in the analytic approaches that are represented).

#### 4. Lectures and Seminars

The Center for the Study of Inequality (CSI) hosts occasional lectures and symposia, and minors are expected to attend them when possible. These events will be announced via e-mail and are also listed on the center web site, [www.inequality.cornell.edu](http://www.inequality.cornell.edu).

#### Enrolling in the Minor

The web site for the Center for the Study of Inequality, [www.inequality.cornell.edu](http://www.inequality.cornell.edu), provides current information on the Inequality Minor. For students considering the minor, it may be useful to schedule a meeting with the assistant to the director ([inequality@cornell.edu](mailto:inequality@cornell.edu)).

#### Sample Programs

The inequality minor allows students considerable flexibility in devising programs that reflect their interests. As examples of possible programs, we have listed below sample tracks, each comprising a different set of possible electives. The first program listed below is a general track that provides an overview of the field, while the remaining nine programs are more specialized and focus on particular issues within the field. This sampling of programs is obviously illustrative and does not cover the entire wide range of interests that may be addressed within the minor.

#### Globalization and Inequality

As a global economy takes hold, there has been increasing concern that economic inequalities will grow apace, especially North-South inequalities between rich and poor countries. The countervailing "optimistic view" is that between-country disparities will in the long run wither away and render inequality an entirely internal, within-country affair. These and related lines of argumentation can be explored in courses that address such topics as trends in income inequality, theories of economic development, emerging patterns of international migration, and globalization and gender.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (DSOC/ILROB/PAM/SOC 2220, GOVT 2225, PHIL 1950)
3. *Possible Electives (choose any four):*
  - International Development (DSOC 2050, SOC 2206)
  - Economic Development (ECON 3710)
  - Labor Markets and Income Distribution in Developing Countries (ILRIC 4350)
  - Contemporary Controversies in the Global Economy (AEM 2000)
  - Environmental Aspects of International Urban Planning (CRP 4530/6830)
  - Gender and Globalization (CRP 3650, FGSS 3600)
  - Education, Inequality, and Development (DSOC 3050)
  - Sex and Gender in Cross-Cultural Perspective (ANTHR 3421/6421, FGSS 3210/6310)

Rural Areas in Metropolitan Society (DSOC 3360)

Gender and International Development (CRP/FGSS 6140)

#### Social Policy and Inequality

In the modern period, inequalities generated in the market and through other social institutions are typically regarded as excessive, and the state is seen as the main tool for redistribution, discrimination abatement, equalization of life chances, and related forms of amelioration. The social policy and inequality track explores the role of the state in generating and reducing inequalities of various kinds.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (DSOC/ILROB/PAM/SOC 2220, GOVT 2225, PHIL 1950)
3. *Possible Electives (choose any four):*
  - Organizations and Social Inequality (ILROB 6260)
  - Employment Discrimination and the Law (ILRCB 6840)
  - Human Resource Economics and Public Policy (ILRHR 3600)
  - Economics of the Public Sector (PAM 2040)
  - Introduction to Policy Analysis (PAM 2300)
  - Introduction to Public Policy (GOVT 3071)
  - Urban Politics (GOVT 3111)
  - Evolving Families: Challenges to Family Policy (PAM 3360)
  - Low-Income Families: Qualitative and Policy Perspectives (PAM 3350)
  - Risk and Opportunity Factors in Childhood and Adolescence (HD 3530)
  - Social Policy and Social Welfare (CRP 4480/5480)
  - Policy Analysis: Welfare Theory, Agriculture, and Trade (AEM 6300, ECON 4300)
  - Economic Analysis of the Welfare State (ECON 4600, ILRLE 6420)
  - Health and Social Behavior (HD 4570, SOC 4570)
  - Public Policy and the African-American Urban Community (ASRC 4605)
  - Beliefs, Attitudes, and Ideologies (PSYCH 4890/6890)
  - Research on Education Reform and Human Resource Policy (ILRHR 6601)

#### The Ethics of Inequality

Charges of social injustice are often charges of excessive inequality. What are the political, philosophical, and legal debates that are relevant to such judgements? Under what conditions should rich countries assist poor ones? At what point should governments step in and redistribute income? When should parents pass on their wealth to their children? The ethics of inequality track examines the conditions under which inequalities might be deemed legitimate or illegitimate, evaluates prevailing inequalities and social policy as against this yardstick, and explores the larger

role of values in popular and scholarly judgments about inequality.

1. *Overview Course: Inequality, Diversity, and Justice* (CRP/GOVT/SOC 2930, PHIL 1930)
2. *Controversies About Inequality* (DSOC/ILROB/PAM/SOC 2220, GOVT 2225, PHIL 1950)
3. *Possible Electives:*

#### A. Ethics Courses (choose two)

Values in Law, Economics, and Industrial Relations (ILRCB 6070)

Contemporary Moral Issues (PHIL 1450)

Global Thinking (GOVT 2947)

Modern Political Philosophy (PHIL 3460)

Feminism and Philosophy (FGSS/PHIL 2490)

#### B. Social Science Classes (choose two)

Select courses in consultation with advisor (see list of electives below).

#### Poverty and Economic Development

Over the past century, rich countries have of course become yet richer, while less developed countries remain burdened with massive poverty. The courses listed below examine the sources and causes of world poverty, the rise of global anti-inequality social movements, and the types of policy interventions that might stimulate economic development and reduce poverty.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (DSOC/ILROB/PAM/SOC 2220, GOVT 2225, PHIL 1950)
3. *Possible Electives (choose any four):*
  - Economic Development (ECON 3710)
  - Issues in African Development (CRP 4770/6770)
  - Labor Markets and Income Distribution in Developing Countries (ILRIC 4350)
  - Health and Survival Inequalities (DSOC/FGSS/SOC 4100)
  - Applied Economic Development (ECON 3720)
  - Low-Income Families: Qualitative and Policy Perspectives (PAM 3350)
  - Gender and International Development (FGSS/CRP 6140)
  - Economics of Hunger and Malnutrition (ECON 4740, NS 4570)

#### Social Movements and Inequality

The history of modern society may be seen in large part as a history of anti-inequality social movements (e.g., the Enlightenment, socialism, the union movement, the civil rights movement, feminism) interspersed with occasional inequality-inducing reactions (e.g., the post-socialist transition). The social movements track examines the causes, effects, and likely future of such social movements and the reactions they spawn.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (DSOC/ILROB/PAM 2220, GOVT 2225, PHIL 1950)

3. *Possible Electives (choose any four):*

Utopia in Theory and Practice (SOC 1150)

Social Movements (SOC 2800)

Social Movements in American Politics (AMST 3020, GOVT 3021)

States and Social Movements (GOVT 6603, SOC 6600)

Comparative Labor Movements in Latin America (ILRIC 6310)

Union Organizing (ILRCB 4000)

Theories of Industrial Relations Systems (ILRCB 6060)

Revitalizing the Labor Movement: A Comparative Perspective (GOVT 6413, ILRIC 6320)

Prisons (GOVT 3141)

#### Education and the Reproduction of Inequality

In the contemporary period, the study of inequality has increasingly turned on the study of formal education, as schools have become the main institutional locus for training and credentialing workers and for signaling potential employers about (putative) worker quality. The inequality and education track examines educational institutions and how they are organized, how they generate equality and inequality, and how possible institutional changes (e.g., vouchers, required testing) might affect the reproduction of inequalities.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (DSOC/ILROB.PAM/SOC 2220, GOVT 2225, PHIL 1950)
3. *Possible Electives (choose any four):*
  - Social and Political Context of American Education (EDUC 2710, SOC 2710/5710)
  - Education, Inequality, and Development (DSOC 3050)
  - Schooling, Racial Inequality, and Public Policy in America (SOC 3570)
  - Research on Education Reform and Human Resource Policy (ILRHR 6601)
  - Education, Technology, and Productivity (ILRHR 6950)
  - Education Innovation in Africa and the Diaspora (ASRC 4601, EDUC 4590)
  - Education and Development in Africa (ASRC 6600)

#### Race and Ethnicity in Comparative Perspective

This program of study examines the many forms of racial and ethnic inequality as revealed across different times and places. When race and ethnicity are examined from an explicitly comparative perspective, it becomes possible to identify regularities and better understand the forces of competition, conflict, and subordination among ethnic and racial groups. The courses listed below address such issues as the causes of discrimination, the implications of residential segregation for inequality, the sources of ethnic and racial differences in income, the effects of anti-inequality reform efforts (e.g., affirmative action), and the possible futures of ethnic and racial stratification.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (DSOC/ILROB/PAM/SOC 2220, GOVT 2225, PHIL 1950)
3. *Possible Electives (choose any four):*

#### A. General Courses

Introduction to American Studies: New Approaches to Understanding American Diversity, the 20th Century (AAS/AMST 1110)

Racial and Ethnic Politics (AMST/GOVT/LSP 3191)

Health and Survival Inequalities DSOC/FGSS/SOC 4100)

Sociology of Health and Ethnic Minorities (DSOC/LSP 2200)

Prisons (GOVT/AMST 3141)

Racial and Ethnic Differentiation (PAM/SOC 3370)

Ethnicity and Identity Politics: An Anthropological Perspective (AAS 4790, ANTHR 4749)

Political Identity: Race, Ethnicity, and Nationalism (GOVT 6101)

#### B. Immigration and Ethnicity

Immigration and a Changing America (DSOC 2750)

Introduction to American Studies (AMST 1101)

Population Dynamics (DSOC 2010, SOC 2202)

Race and Ethnicity (SOC 1104)

Strangers and Citizens: Immigration and Labor in U.S. History (ILRCB 3020)

#### C. Case Studies

African–American Social and Political Thought (ASRC 2601)

African–American Women: 20th Century (AMST/FGSS/HIST 2120)

African–American Social History, 1865 to 1910: The Rural and Urban Experience (HIST 3750, ILRCB 3850)

African–American Social History, 1910 to The Present: Race, Work, and the City (HIST 3760, ILRCB 3860)

African–American Women in Slavery and Freedom (AMST/HIST 3030, FGSS 3070)

Public Policy and the African–American Urban Community (ASRC 4605)

Politics and Social Change in Southern Africa (ASRC 4603)

Afro–American Historiography (AMST/HIST 6101)

Latinos in the United States (DSOC/SOC 2650, LSP 2010)

Latinos in the United States: Colonial Period to 1898 (AMST 2599, HIST/LSP 2600)

Latinos in the United States: 1898 to the Present (AMST/HIST/LSP 2610)

Introduction to Asian American Studies (AAS 1100)

Introduction to Asian American History (AAS 2130, AMST/HIST 2640)

Asians in the Americas: A Comparative Perspective (AAS 3030, ANTHR 3703)

Introduction to American Indian Studies (AIS 1100)

### The Family and Inequality

Although workers in modern labor markets are often analytically treated as independent individuals, they of course typically belong to families that pool the labor supply of their members, consume goods jointly, and serve in some circumstances as units of collective production. It might therefore be asked how the modern labor market has adapted to and evolved in the context of the family (and, obversely, how the family has responded to the market). The courses within this track explore such issues as the causes and consequences of the intrafamilial division of labor, the effects of marriage and family structure on careers, and the transmission of socioeconomic advantage from one generation to the next.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (DSOC/ILROB/PAM/SOC 2220, GOVT 2225, PHIL 1950)
3. *Possible Electives:*
  - Work and Family in Comparative Perspective (SOC 2203)
  - Families and the Life Course (HD/SOC 2500)
  - Work-Family Policies in Comparative Perspective (PAM 3320)
  - Economics of Family Policy (PAM 6050)
  - Politics and Culture (GOVT 3633, SOC 2480)
  - Cultural Sociology (SOC 6300)

## INFORMATION SCIENCE

C. Cardie, director; J. Abowd, W. Y. Arms, G. Bailey, K. Bala, L. Blume, R. Caruana, R. Constable, D. Easley, S. Edelman, E. Friedman, G. Gay, J. Gehrke, T. Gillespie, P. Ginsparg, C. Gomes, J. Halpern, J. Hancock, A. Hedge, D. Huttenlocher, T. Joachims, J. Kleinberg, C. Lagoze, L. Lee, A. Leiponen, B. Lust, M. Macy, P. Martin, T. Pinch, R. Prentice, M. Rooth, B. Selman, P. Sengers, D. Shmoys, M. Spivey, D. Strang, E. Tardos, E. Wagner, S. Wicker, D. Williamson, C. Yuan

### The Major

Information Science (IS) is an interdisciplinary field that explores the design and use of information systems in a social context: the field studies the creation, representation, organization, application, and analysis of information in digital form. The focus of Information Science is on systems and their use rather than on the computing and communication technologies that underlie and sustain them. Moreover, Information Science examines the social, cultural, economic, historical, legal, and political contexts in which information systems are employed, both to inform the design of such systems and to understand their impact on individuals, social groups, and institutions.

Courses in the Information Science (IS) major are assigned to three area-based tracks:

**Human-Centered Systems** This area examines the relationship between humans and information, drawing from human-computer interaction and cognitive science.

**Information Systems** This area examines the computer science problems of representing, organizing, storing, manipulating, and accessing digital information.

**Social Systems** This area studies the cultural, economic, historical, legal, political, and social contexts in which digital information is a major factor.

Students must complete a set of 11 core courses: one introductory course, four courses in mathematics and statistics, and two courses from each of the three IS area-based tracks. Students must also obtain depth in two tracks—a primary and a secondary track—that together best represent their interests. In particular, completion of the major requires four advanced courses from the selected primary track and three advanced courses from the secondary track.

### Requirements

Core (11 courses)

1. Introductory (one course):
  - INFO 1300 Introductory Design and Programming for the Web
  - Note: INFO 1301 and 1302 (no longer offered) may count together in place of 1300.
2. Math and Statistics (four courses):
  - MATH 1110 Calculus I
  - either MATH 2310 Linear Algebra with Applications or MATH 2210 Linear Algebra and Differential Equations
  - either INFO 2950 Mathematical Methods for Information Science or CS 2800 Discrete Structures

One of the following:

- MATH 1710 Statistical Theory and Application in the Real World
- HADM 2201 Hospitality Quantitative Analysis
- AEM 2100 Introductory Statistics
- PAM 2100 Introduction to Statistics
- ENGRD 2700 Basic Engineering Probability and Statistics
- BTRY 3010 Statistical Methods I
- SOC 3010 Evaluating Statistical Evidence
- CEE 3040 Uncertainty Analysis in Engineering
- ILRST 3120 Applied Regression Methods
- ECON 3190 Introduction to Statistics and Probability
- PSYCH 3500 Statistics and Research Design
- 3. Human-Centered Systems (two courses):
  - INFO 2140 Cognitive Psychology
  - INFO 2450 Communication and Technology
- 4. Information Systems (two courses):
  - CS 2110 Object-Oriented Programming and Data Structures\*

\*CS 2110 is an intermediate programming course that requires prior knowledge of Java. Students who have not learned Java can take CS 1130 after completing INFO 1300 and 2300 or they can take CS 1110.

INFO 2300 Intermediate Design and Programming for the Web

5. Social Systems (two courses):
  - either ECON 3010 Microeconomics or ECON 3130 Intermediate Microeconomic Theory
  - one of the following: INFO 2921 Inventing an Information Society, INFO 3200 New Media and Society, INFO 3551 Computers: From the 17th Century to the Dotcom Boom, INFO 3561 Computing Cultures

Where options in the core courses exist, the choice will depend on the student's interests and planned advanced courses for the selected primary and secondary tracks.

### Tracks

Students must complete four advanced courses in their primary track and three advanced courses in their secondary track, selected from those listed below.

All courses in the major must be taken for a letter grade. Students must earn a C- or better in all courses used for the major.

Courses taken to satisfy the core course requirements may not be used to fulfill the track requirements.

Additional information on Information Science courses can be found below and in the "Computing and Information Science (CIS)" section of *Courses of Study*. Course information for all other courses in the major can be found in the relevant departments (e.g., AEM, CS, STS).

### Human-Centered Systems

PSYCH 3420 Human Perception: Applications to Computer Graphics, Art, and Visual Display\*

INFO 3450 Human-Computer Interaction Design

PSYCH 3470 Psychology of Visual Communications

INFO 3650 Technology and Collaboration

PSYCH 3800 Social Cognition\*

PSYCH 4160 Modeling Perception and Cognition

INFO 4400 Advanced Human-Computer Interaction Design

INFO 4450 Seminar in Computer-Mediated Communication

INFO 4500 Language and Technology

DEA 4700 Applied Ergonomic Methods

\* Students who take PSYCH 3420 may also count its prerequisite, PSYCH 2050, toward the Human-Centered Systems primary or secondary track requirements. Similarly, students who take PSYCH 3800 may also count PSYCH 2800 toward the Human-Centered Systems primary or secondary track requirements. At most, one of PSYCH 2050 or PSYCH 2800 can be counted toward the primary or secondary track requirements.

### Information Systems

INFO 3300 Data-Driven Web Applications

CS 4190 Computer Networks

LING 4424 Computational Linguistics

INFO 4300 Information Retrieval

- INFO 4310 Web Information Systems
- CS 4320 Introduction to Database Systems
- CS 4620 Introduction to Computer Graphics
- CS 4700 Foundations of Artificial Intelligence
- LING 4474 Introduction to Natural Language Processing
- ORIE 4740 Statistical Data Mining
- CS 4780 Machine Learning
- ORIE 4800 Information Technology
- CS 5150 Software Engineering
- CS 5430 System Security
- INFO 5300 Architecture of Large-Scale Information Systems
- CS 5780 Empirical Methods in Machine Learning and Data Mining

**Social Systems**

- INFO 2040 Networks
- SOC 3040 Social Networks and Social Processes
- INFO 3200 New Media and Society\*
- AEM 3220 Internet Strategy
- INFO 3490 Media Technologies
- INFO 3551 Computers: From the 17th Century to the Dotcom Boom
- INFO 3561 Computing Cultures
- INFO 3660 History and Theory of Digital Art
- ECON 3680 Game Theory\*
- INFO 3871 The Automatic Lifestyle: Consumer Culture and Technology
- STS 4111 Knowledge, Technology, and Property
- ECON 4190 Economic Decisions under Uncertainty
- INFO 4290 Copyright in a Digital Age
- INFO 4350 Seminar on Applications of Information Science
- ORIE 4350 Introduction to Game Theory\*
- INFO 4144 Responsive Environments
- SOC 4150 Internet and Society\*
- INFO 4470 Social and Economic Data
- INFO 4850 Computational Methods for Complex Networks
- ECON 4760/4770 Decision Theory I and II
- HADM 4489 The Law of the Internet and E-Commerce
- INFO 5150 Culture, Law, and Politics of the Internet

\*Only one of ORIE 4350 and ECON 3680 may be taken for IS credit. Only one of INFO 3200 and SOC 4150 may be taken for IS credit.

**Admission**

All potential affiliates are reviewed on a case-by-case basis relative to the following criteria:

- Completion of four core courses, one in each of the core course areas listed above (i.e., Math and Statistics, Human-Centered systems, Information Systems, and Social Systems). Courses must be taken for a letter grade.

- A grade of C or better in each of the completed core courses with an overall GPA for these courses of 2.5 or more.

Courses used in the affiliation GPA computations may be repeated if the original course grade was below a C. The most recent grade will be used for all repeated courses. Qualifying courses must be taken at Cornell.

**Honors**

To qualify for departmental honors, students must apply by the end of their seventh semester and meet the GPA requirement:

- a cumulative GPA greater than or equal to 3.5

OR

- a cumulative GPA greater than or equal to 3.0 in addition to contributions to the Information Science Program through research or other means, as detailed in their application.

Students intending to pursue honors must complete the following course work in addition to their IS major courses:

- Three additional credit hours of IS course work at or above the 5000 level; (graded courses only; no seminars or 2-credit project courses)
- Six credit hours of INFO 4900 Independent Study and Research with one or more IS faculty members, spread over at least two semesters and with grades of A- or better; it is expected that the INFO 4900 research will result in a project report.

Latin designations (appended to the degree) are based on final cumulative GPA, as follows:

- cum laude, 3.50 or above
- magna cum laude, 3.75 or above
- summa cum laude, 4.00 or above

**The Minor**

A minor in Information Science is also available to students in the College of Arts and Sciences, CALS, AAP (Architecture and Planning students only), Engineering, Human Ecology, Hotel, and ILR. The minor has been designed to ensure that students have substantial grounding in all three tracks: Human-Centered Systems, Information Systems, and Social Systems. Detailed information about the minor can be found in the CIS section of *Courses of Study*. Students are also referred to [www.infosci.cornell.edu/ugrad](http://www.infosci.cornell.edu/ugrad) for the most up-to-date description of the minor and its requirements.

**Courses**

For complete course descriptions, see the Information Science listings under Computing and Information Science (CIS).

**INFO 1300 Introductory Design and Programming for the Web (also CS 1300)**  
Fall. 3 credits.

For description, see INFO 1300 in CIS section.

**INFO 2040 Networks (also CS 2800, ECON 2040, SOC 2090) (SBA-AS)**

Spring. 4 credits.  
For description, see ECON 2040.

**INFO 2140 Cognitive Psychology (also COGS 2140/6140, PSYCH 2140) (KCM-AS)**

Spring. 4 credits. Limited to 175 students. Prerequisite: sophomore standing. Graduate students, see INFO/PSYCH 6140. For description, see PSYCH 2140.

**INFO 2300 Intermediate Design and Programming for the Web (also CS 2300)**

Spring. 3 credits. Prerequisite: INFO 1300 strongly recommended. Must be taken before INFO 3300.

For description, see INFO 2300 in CIS section.

**[INFO 2310 Topics in Web Programming and Design]**

**INFO 2450 Communication and Technology (also COMM 2450)**

Fall, summer. 3 credits.  
For description, see COMM 2450.

**INFO 2921 Inventing an Information Society (also AMST/ECE/ENGRG 2980, HIST 2920, STS 2921) (HA-AS)**

Spring. 3 credits.  
For description, see ENGRG 2980.

**INFO 2950 Mathematical Methods for Information Science**

Spring. 4 credits. Corequisite: MATH 2310 or equivalent.  
For description, see INFO 2950 in CIS section.

**INFO 3200 New Media and Society (also COMM 3200)**

Spring. 3 credits.  
For description, see COMM 3200.

**INFO 3300 Data-Driven Web Applications (also CS 3300)**

Spring. 3 credits. Prerequisite: CS 2110 and (INFO 2300 or permission of instructor).  
For description, see INFO 3300 in CIS section.

**[INFO 3400 Psychology of Social Computing (also COMM 3400)]**

Fall. 3 credits. Prerequisite: COMM/INFO 2450. Next offered 2010–2011.  
For description, see COMM 3400.]

**INFO 3450 Human-Computer Interaction Design (also COMM 3450)**

Fall. 3 credits. Pre- or corequisite: INFO 2450.  
For description, see COMM 3450.

**[INFO 3490 Media Technologies (also COMM 3490, STS 3491) (HA-AS)]**

Spring. 3 credits. Offered odd-numbered years; next offered 2010–2011.  
For description, see COMM 3490.]

**[INFO 3551 Computers: From the 17th Century to the Dotcom Boom (also COMM 3550, STS 3551) (HA-AS)]**

Fall. 4 credits. Next offered 2011–2012  
For description, see STS 3551.]

**INFO 3561 Computing Cultures (also COMM/VISST 3560, STS 3561) (CA-AS)**

Spring. 4 credits. No technical knowledge of computer use presumed or required. INFO 3551 and 3561 may be taken separately or in any order.  
For description, see STS 3561.

**INFO 3650 Technology and Collaboration (also COMM 3650)**

Spring. 3 credits. Prerequisite: COMM/INFO 2450.  
For description, see COMM 3650.

**[INFO 3660 History and Theory of Digital Art (also ARTH/VISST 3650) (CA-AS)]**

Fall. 4 credits. Next offered 2010-2011.  
For description, see ARTH 3650.]

**INFO 4290 Copyright in the Digital Age (also COMM 4290) (CA-AS)**

Fall. 3 credits. Offered odd-numbered years.  
For description, see COMM 4290.

**INFO 4300 Information Retrieval (also CS 4300)**

Fall. 3 credits. Prerequisite: CS 2110 or equivalent.  
For description, see INFO 4300 in CIS section.

**INFO 4302 Web Information Systems (also CS 4302)**

Spring. 3 credits. Prerequisites: CS 2110 and some familiarity with web site technology.  
For description, see INFO 4302 in CIS section.

**[INFO 4350 Seminar on Applications of Information Science (also INFO 6350)]****INFO 4400 Advanced Human-Computer Interaction Design (also COMM 4400)**

Spring. 3 credits. Prerequisite: COMM/INFO 3450.  
For description, see COMM 4400.

**INFO 4450 Seminar in Computer-Mediated Communication (also COMM 4450)**

Spring. 3 credits. Prerequisites: COMM/INFO 2450.  
For description, see COMM 4450.

**INFO 4470 Social and Economic Data (also IRLRE 4470)**

Fall. 4 credits. Prerequisites: one semester of calculus, IS statistics requirement, at least one upper-level social science course, or permission of instructor.  
For description, see INFO 4470 in CIS section.

**INFO 4500 Language and Technology (also COMM 4500)**

Spring. 3 credits. Prerequisite: COMM/INFO 2450 or permission of instructor.  
For description, see COMM 4500.

**INFO 4900 Independent Reading and Research**

Fall, spring. 1-4 credits.  
Independent reading and research for undergraduates.

**[INFO 5150 Culture, Law, and Politics of the Internet]****INFO 5300 The Architecture of Large-Scale Information Systems (also CS 5300)**

Spring. 4 credits. Prerequisite: CS/INFO 3300 or CS 4320.  
For description, see INFO 5300 in CIS section.

**INFO 6140 Cognitive Psychology (also COGST 6140, PSYCH 2140/6140)**

Spring. 4 credits.  
For description, see PSYCH 6140.

**INFO 6300 Advanced Language Technologies (also CS 6740)**

Fall, spring. 3 credits. Prerequisites: permission of instructor. Neither CS/INFO 4300 nor CS 4740 are prerequisites.  
For description, see CS 6740 in CIS section.

**INFO 6341 Information Technology in Sociocultural Context (also STS 6341)**

Spring. 4 credits.  
For description, see INFO 6341 in CIS section.

**[INFO 6350 Seminar on Applications of Information Science (also INFO 4350)]****INFO 6400 Human-Computer Interaction Design (also COMM 6400)**

Spring. 3 credits. Prerequisite: graduate standing or permission of instructor.  
For description, see COMM 6400.

**INFO 6450 Seminar in Computer-Mediated Communication (also COMM 6450)**

Spring. 3 credits. Prerequisite: graduate standing or permission of instructor. For description, see COMM 6450.

**INFO 6500 Language and Technology (also COMM 6500)**

Spring. 3 credits. Prerequisite: graduate standing or permission of instructor. For description, see COMM 6500.

**[INFO 6648 Speech Synthesis (also LING 6648)]**

Spring. 4 credits. Prerequisite: LING 4401, 4419, or permission of instructor. Next offered 2010-2011.  
For description, see LING 6648.]

**[INFO 6850 The Structure of Information Networks (also CS 6850)]****INFO 7050 Graduate Seminar**

Fall, spring. 1 credit.  
For description, see INFO 7050 in CIS section.

**INFO 7090 IS Colloquium**

Fall, spring. 1 credit. For staff, visitors, and graduate students interested in information science.

**INFO 7900 Independent Research**

Fall, spring. Variable credit. Prerequisite: permission of an information science faculty member.  
Independent research for M.Eng. students and pre-A exam Ph.D. students.

**INFO 9900 Thesis Research**

Fall, spring. Variable credit. Prerequisite: permission of an information science faculty member.  
Thesis research for post-A exam Ph.D. students.

**INTERNATIONAL RELATIONS MINOR**

Office: 190B Uris Hall, 255-7645, www.einaudi.cornell.edu/initiatives/itc.asp, D. R. Lee (AEM), director

**Objective**

The International Relations (IR) minor is an interdisciplinary program for undergraduate students enrolled in any of the seven undergraduate colleges at Cornell. The IR minor provides a structured yet flexible program that enables undergraduates to take advantage of the vast resources available at the university for studying the politics, economics, history, languages, and cultures of the countries and regions of the world.

Graduates of the program have gone on to pursue further education in fields such as political science and anthropology and to

successful careers in international law, economics, agriculture, trade, finance, international development, and government service, among others. They have gone on to work in international and nongovernmental organizations, in cross-cultural affairs, in journalism, and in education.

The International Relations minor is not a major or a department, but rather a program offering a selection of courses reaching across colleges and departments. Students pursue the IR minor in addition to their regular degree. Students concentrating in international relations have majored in fields ranging from anthropology, city and regional planning, communications, economics, government, and history to natural resources, industrial and labor relations, and computer science. International course work and language study add a global and cross-cultural dimension to those majors. Some students even design an independent major in some aspect of international relations or comparative social or cultural studies. Spending a semester or year of study abroad can contribute to meeting the course requirements of the IR minor, including the language requirement.

**Course Requirements**

These requirements are designed to expose students to a broad range of perspectives in international relations while allowing them to tailor their course selections to specific interests. Courses throughout the university are grouped into four subject areas:

1. International Economics and Development
2. World Politics and Foreign Policy
3. Transnational Processes and Policies
4. Cultural Studies

Within these four subject areas, courses are also divided into "core" and "elective" categories. Altogether, students must complete eight courses from the four groups according to one of two options. Option A emphasizes the politics and economics of international relations. Option B puts greater stress on culture. In choosing either option, students should ensure that they acquire familiarity with more than one geographic region or country. All courses used to fulfill the minor requirements must be taken for a letter grade. Courses can count both toward a major and the International Relations minor.

Option A: One core course from each of Groups 1, 2, 3, and 4; one elective from each of Groups 1, 2, 3, and 4

Option B: One core course from each of Groups 1, 2, 3, and 4; one elective from either Group 1 or Group 2; one elective from each of Groups 3 and 4; one additional elective from either Group 3 or Group 4

Before pre-registration a course list for the following semester (as well as lists for the current and previous semesters) can be obtained from the administrative coordinator in 190B Uris Hall, as well as from the web site. Note: These lists are not necessarily complete. Other courses throughout the university qualify for the IR minor by prior arrangement.

**Language Requirement**

Students in the IR minor are expected to complete additional language study beyond the College of Arts and Sciences' degree

requirement (for those in Arts and Sciences). This study can be accomplished in one of two ways: (1) two years of one foreign language (proficiency plus one course that uses the language to explore some aspect of foreign culture); (2) two languages at proficiency.

### Study Abroad

Students in the IR minor are encouraged to study abroad to bring a practical dimension to their expertise in international issues. Those who choose this option will find the requirements for the concentration highly compatible with courses taken abroad. Students are encouraged to contact the administrative coordinator before departure.

### Completion

Transcripts will reflect successful completion of the requirements for the minor. In addition, students will receive a special certificate and a letter of confirmation signed by the director of the IR Minor and the director of the Mario Einaudi Center for International Studies.

### Enrollment

To obtain course lists, to enroll and for all further information, please contact the IR administrative coordinator, Mario Einaudi Center for International Studies, 190B Uris Hall, 255-7645; irc@is.cornell.edu.

### Course List for 2009–2010

Core course options (one from each group) and selected electives are listed below; other electives are possible. Most courses are offered one semester only. Offerings may change, so see the administrative coordinator, course roster, and IR web site for updates and further details.

#### Group 1: International Economics and Development

##### Core:

AEM/ECON 2300 International Trade and Finance

AEM 4290 International Finance

AEM 4300 International Trade Policy

ECON 3610 International Trade Theory

ECON 3620 International Monetary Theory and Policy

##### Electives:

AEM 4350 Political Economy of the WTO and Globalization

AEM 4420 Emerging Markets

AEM/ECON 4640 Economics of Agricultural Development

ANTHR 3684 Africa in the Global Economy

CRP 3270 Regional Economic Impact Analysis

CRP 4170 Economic Development: Firms, Industries, and Regions

ECON 3710 Economic Development

ECON 4690 China's Economy under Mao and Deng

GOVT 3303/ILRIC 3330 Politics of the Global North

GOVT 3393 Political Economy of Development

GOVT 3549 Capitalism, Competition, and Conflict

#### Group 2: World Politics and Foreign Policy

##### Core:

GOVT 1817 Introduction to International Relations

##### Electives:

AMST/HIST 3140 History of American Foreign Policy 1912–Present

ASIAN 2298/HIST 2890 The U.S.–Vietnam War

ASRC 3110 Government and Politics in Africa

ASRC 4600 Political and Social Change in Caribbean

GOVT 3313 Middle Eastern Politics

GOVT 3323 Modern European Politics

GOVT 3857 American Foreign Policy

GOVT 3867 The Causes of War

GOVT 4827 Unifying While Integrating: China and the World

HIST 2571 China Encounters the World

HIST 3710 World War II in Europe

HIST 4050 U.S.–Cuba Relations

NES 4672 Nationalisms in the Arab World

#### Group 3: Transnational Processes and Policies

##### Core:

GOVT/SOC 3937 Introduction to Peace Studies

GOVT 3957 New Forces in International Politics

##### Electives:

AEM 4450 Food Policy for Developing Countries

AEM/ECON 4640 Economics of Agricultural Development

CRP 3540 Introduction to Environmental Planning

CRP 3840 Green Cities

CRP 4530 Environmental Aspect of International Urban Planning

DSOC 2050/SOC 2206 International Development

DSOC 2750 Immigration and a Changing America

DSOC 3240 Environment and Society

FDSC/IARD 4020 Agriculture in the Developing Nations I

HD 4830 Early Care and Education in Global Perspective

IARD 3000 Perspectives in International Agricultural and Rural Development

IARD 4940 Special Topics in International Agriculture

ILRCB 3040 Seminar in American Labor and Social History

ILRHR 4690 Immigration and the American Labor Force

NTRES 3320 Ethics and the Environment

#### Group 4: Cultural Studies

##### Core:

ANTHR 1400 Introduction to Anthropology: The Comparison of Cultures

ANTHR 1420 Cultural Diversity and Contemporary Issues

##### Electives:

AAS 3030/ANTHR 3703 Asians in the Americas

AMST/ANTHR 3453 Anthropology of Colonialism

AMST/ANTHR/LSP 3777 The United States

AMST/ARTH 3605 U.S. Art from FDR to Reagan

AMST/HIST 1530 Introduction to American History

AMST/HIST 2110 Black Religious Traditions: Sacred and Secular

AMST/HIST 3450 Cultural and Intellectual Life of 19th-Century Americans

AMST/ILRCB 3060 Recent History of American Workers

ANTHR 2730 Cultures of Native North America

ANTHR 3421/FGSS 3210 Sex and Gender in Cross-Cultural Perspective

ANTHR 3516 Power, Society, Culture in Southeast Asia

ANTHR 3535 Situation of China's Minorities

ARKEO/JWST/NES 3665 Ancient Iraq II

ARTH 2350 Introduction to Art History: Islamic Art and Culture

ARTH 2400 Introduction to Art History: Renaissance and Baroque

ARTH 3202/CLASS 3740 Arts of the Roman Empire

ARTH 3510/ASRC 3501 Introduction of African Art

ASIAN 1191/HIST 1910 Introduction to Modern Asian History

ASIAN 2208 Introduction to Southeast Asia

ASIAN 2211 Introduction to Japan

ASIAN 2245/MUSIC 1341 Gamelan in Indonesian Culture

ASIAN 3385/HIST 3880 Vietnamese Histories

ASIAN 3397/HIST 3950 Premodern Southeast Asia

ASIAN 4494/HIST 4921 India: Nation and Narration, History, Literature

ASIAN 6601/HIST 4870 Seminar on Thailand

ASRC 2300 African Civilizations and Culture

ASRC 3300 African History: Earliest Times to 1800

ASRC 4601 Education Innovation in Africa and the Diaspora

ASRC 4606 Family and Society in Africa

CLASS 4625/HIST 4831/RELST 4625 Christianization/Roman World

COML 3620/ENGL 3250/HIST 3640 Culture of the Renaissance II

COML 3860 Literature and Film of South Asia

COML 4520 Renaissance Humanism

COML 4740 Topics in Modern European Intellectual History

COML 4960 Imagining the Mediterranean

ENGL 2740 Scottish Literature

ENGL 3330 The 18th-Century English Novel

ENGL 3490 Shakespeare and Europe

FGSS/HIST 2190 Women in South Asia

FGSS/SPAN 2460 Contemporary Narratives by Latina Writers

FILM 2930/NES 2793 Sophomore Seminar: Middle Eastern Cinema

FILM 3410/FREN 3360 French Film

FREN 2210 Introduction to Textual Analysis

FREN 2240 The French Experience

FREN 3210 Readings in Modern French Literature and Culture

FREN 3220 Readings in Early Modern French Literature and Culture

FREN 3700 The French Enlightenment and the Modern Citizen

HIST 1570 Introduction to Western Civilization

HIST 1950 Colonial Latin America

HIST 2910 Modern European Jewish History 1789 to 1948

HIST 3050 Britain, 1660 to 1815

HIST 3260 History of the British Empire

HIST 3490 Renaissance England, 1485 to 1660

HIST 3661 History of Southern Africa

HIST 4041 Race and Ethnicity in Latin America

HIST 4290/SPAN 4340 Cervantes' Mediterranean World

HIST 4520 History of the New Europe

ITAL 2900 Perspectives in Italian Culture

ITAL 2970 Introduction to Italian Literature

ITAL 3040 Italy after the Renaissance

JWST/NES/RELST 2675 The Religions of Ancient Israel

KRLIT 4405 Readings in Korean Literature

LSP 2010/SOC 2650 Latinos in the United States

MUSIC 3614/NES 4947-4948 Middle Eastern Music Ensemble

NES 2747 Introduction to Art History: Islamic Art

RUSSL 3369 Dostoevsky

RUSSL 4499 The Avant-Garde in Russian Literature and the Arts

SOC 4780 Family and Society in Africa

SPAN 2140 The Spanish Difference: Readings in Modern Iberian Literatures

SPAN 2170 Early Hispanic Modernities

SPAN 2230 Perspectives on Spain

SPAN 3010 Hispanic Theater Production

THETR 3090 Modern Arabic Drama

## ITALIAN

See "Department of Romance Studies."

## JAPANESE

See "Department of Asian Studies."

## JAVANESE

See "Department of Asian Studies."

## PROGRAM OF JEWISH STUDIES

D. Starr, director (modern Hebrew and Arabic Literature; Critical Theory, Middle Eastern Film), L. Adelson (German-Jewish Literature and Culture), R. Brann (Judeo-Islamic Studies), V. Caron (Modern French and European-Jewish History), M. Diesing (Yiddish Language and Linguistics), Z. Fahmy (Modern Middle Eastern History), K. Haines-Eitzen (Early Judaism and Early Christianity), R. Hoffmann (Holocaust Studies), P. Hohendahl (German Literature), P. Hyams (Medieval Jewish History), D. LaCapra (Holocaust Studies), M. Migiel (Italian Literature), C. Monroe (Near Eastern Mediterranean Studies; Nautical Archaeology), L. Monroe (Hebrew Bible Studies), D. I. Owen (Ancient Near Eastern History and Archaeology; Assyriology; Biblical History and Archaeology), R. Polenberg (American-Jewish History), E. Rebillard (Jews in the Roman Empire), N. Scharf (Hebrew Language), D. Schwarz (Anglo-Jewish Literature), G. Shapiro (Russian-Jewish Literature), S. Shoer (Hebrew Language), P. Stevens (curator), Emeritus: D. Bathrick, N. Furman, J. Porte, E. Rosenberg, Y. Szekely.

The Program of Jewish Studies was founded as an extension of the Department of Semitic Languages and Literatures, now the Department of Near Eastern Studies, in 1973 and attained status as an intercollegiate program in 1976.

The program has grown out of the conviction that Judaic civilization merits its own comprehensive and thorough treatment and that proper understanding of any culture is inconceivable without adequate knowledge of the language, literature, and history of the people that created it. Accordingly, the offerings in the areas of Jewish languages and literatures have been considerably expanded, and courses in ancient, medieval, and especially modern Jewish history and culture have been added to the program.

It is a broadly based, interdisciplinary program, bringing together faculty from various Cornell departments and colleges.

The Program of Jewish Studies supports teaching and research in the many areas of Jewish Studies. It is a secular, academic program, whose interests are diverse and cross-cultural. The program recognizes its special relationship to teaching and research in classical Judaica and Hebraica pursued by the members of the Department of Near Eastern Studies, with particular emphasis on the interrelationship between Judaism, Christianity, and Islam.

It presently enables students to obtain basic instruction and specialization in the fields of Semitic languages; the Hebrew Bible; medieval and modern Hebrew literature; ancient, medieval, and modern European and Middle Eastern Jewish history; and Holocaust studies. In some of these fields students may take courses on both graduate and undergraduate levels. Faculty throughout the university provide breadth to the program by offering courses in related areas of study.

For more information, please visit [www.arts.cornell.edu/jwst/index.html](http://www.arts.cornell.edu/jwst/index.html).

## Courses Offered

**JWST 1101-1102 Elementary Modern Hebrew I and II (also NES 1101-1102)**  
1101, fall; 1102, spring. 4 credits. Letter grades only. S. Shoer and N. Scharf.  
For description, see NES 1101-1102.

**JWST 1103 Elementary Modern Hebrew III (also NES 1103)**  
Fall. 4 credits. N. Scharf and S. Shoer.  
For description, see NES 1103.

**JWST 1104 Beginners Intensive Hebrew (also NES 1104)**  
Summer. 3 credits. S. Shoer.  
For description, see NES 1104.

**JWST 1105 Hebrew Summer Follow-Up (also NES 1105)**  
Fall. 1 credit. S. Shoer.  
For description, see NES 1105.

**JWST 2100 Intermediate Modern Hebrew: Special Topics in Hebrew (also NES 2100) @**  
Spring. 4 credits. *Satisfies Option 1.*  
N. Scharf.  
For description, see NES 2100.

**[JWST 2271 Yiddish Linguistics (also LING 2241) (SBA-AS)]**  
Spring. 4 credits. Next offered 2010-2011.  
M. Diesing.  
For description, see LING 2241.]

**[JWST 2350 Antisemitism and Crisis Modernity (also HIST 2350) (HA-AS)]**  
Fall. 4 credits. Next offered 2010-2011.  
V. Caron.]

**JWST 2611 Prophecy in Ancient Israel (also NES/RELST 2611)**  
Spring. 3 credits. L. Monroe.  
For description, see NES 2611.

**JWST 2629 Introduction to New Testament and Other Early Christian Literature (also NES/RELST/CLASS 2613) @ # (HA-AS)**  
Spring. 3 credits. K. Haines-Eitzen.  
For description, see NES 2629.

**[JWST 2651 Holy War, Crusade, and Jihad in Judaism, Christianity, and Islam (also COML 2310, HIST 2691, NES 2651) @ # (HA-AS)]**  
Fall. 3 credits. Next offered 2010-2011.  
R. Brann.]

**JWST 2661 Ancient Ships and Seafaring—Introduction to Nautical Archaeology (also ARKEO/NES 2661) @ # (HA-AS)**  
Fall. 4 credits. C. Monroe.  
For description, see NES 2661.

**JWST 2668 Ancient Egyptian Civilization (also ARKEO/NES 2668) @ # (HA-AS)**  
Spring 3 credits. C. Monroe.  
For description, see NES 2668.

**JWST 2674 History of the Modern Middle East: 19th-20th Centuries (also GOVT 2747, HIST/NES 2674) @ # (HA-AS)**  
Fall. 3 credits. Z. Fahmy.  
For description, see NES 2674.

**JWST 2724 Introduction to the Hebrew Bible (also NES/RELST 2624) @ # (LA-AS)**  
Fall. 3 credits. L. Monroe.  
For description, see NES 2724.

**[JWST 2793 Middle Eastern Cinema (also FILM 2930, NES 2793, VISST 2193) @ (LA-AS)]**  
Fall. 4 credits. Next offered 2010-2011.  
D. Starr.]

**JWST 2920 Modern European Jewish History 1789–1948 (also NES 2620, HIST 2910)**

Fall. 4 credits. S. Gutman.  
For description, see HIST 2910.

**JWST 3101 Advanced Intermediate Modern Hebrew: Aspects of Israeli Society (also NES 3101) @**

Fall. 4 credits. N. Scharf.  
For description, see NES 3101.

**JWST 3102 Advanced Intermediate Hebrew II: Aspects of Israeli Culture (also NES 3102) @**

Spring. 4 credits. N. Scharf.  
For description, see NES 3102.

**[JWST 3103 Love, Wine, Death, and In Between (also NES 3103) @ # (CA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
S. Shoer.  
For description, see NES 3103.]

**JWST 3105 Intensive Conversational Hebrew (also NES 3105)**

Fall. 2 credits. Limited to 15 students.  
Prerequisite: NES 3102, 4100, or permission of instructor; non-native speakers only.  
N. Scharf.  
For description, see NES 3105.

**[JWST 3524/6524 Israelite Prophecy (also RELST/NES 3524) @ # (LA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
L. Monroe.  
For description, see NES 3524.]

**JWST 3588 Biblical Archaeology (also NES/RELST 3588)**

Spring. 4 credits. L. Monroe.  
For description, see NES 3588.

**[JWST 3619 Near Eastern Christianities, 50–650 CE (also HIST/NES/RELST 3619) @ # (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
K. Haines-Eitzen.  
For description, see NES 3619.]

**JWST 3625 Introduction to the Hebrew Bible—Seminar (also NES/RELST 3625)**

Fall. 4 credits. L. Monroe.  
For description, see NES 3625.

**JWST 3629 Introduction to New Testament and Other Early Christian Literature (also NES/CLASS/ RELST 3629)**

Spring. 1 credit. Prerequisite: concurrent or past enrollment in NES 2629 or one year of ancient Greek. K. Haines-Eitzen.  
For description, see NES 3629.

**[JWST 3661 Sumerian Language and Culture I (also ARKEO/NES 3661/6661, JWST 6661) @ # (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
D. I. Owen.  
For description, see NES 3661.]

**[JWST 3665 Ancient Iraq II (also ARKEO/NES 3665) @ # (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
D. I. Owen.]

**[JWST 3666 History and Archaeology of the Ancient Near East (also ARKEO/NES 3666/6666, JWST 6666) @ # (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
D. I. Owen.  
For description, see NES 3666.]

**JWST 3697 Israeli–Palestinian Conflict (also GOVT 3977, NES 3697, HIST/SOC 3970) @ (HA-AS)**

Spring. 4 credits. R. Brann.  
For description, see NES 3697.

**JWST 3700 History of the Holocaust (also HIST 3700) (HA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
V. Caron.

**JWST 3799 Imagining the Other: Jews and Arabs in Contemporary Literature and Film (also COML/NES 3799) @ (LA-AS)**

Fall. 4 credits. D. Starr.  
For description, see NES 3799.

**[JWST 4100 Advanced Readings in Modern Hebrew (also NES 4100)**

Fall. 4 credits. Limited to 15 students. Next offered 2010–2011. D. Starr.]

**[JWST 4101 Modern Hebrew Literature (also NES 4101) @ (LA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
D. Starr.  
For description, see NES 4101.]

**JWST 4102 Biblical Hebrew Prose—Genesis (also NES/RELST 4102) @ # (LA-AS)**

Fall. 4 credits. L. Monroe.  
For description, see NES 4102.

**JWST 4170 History of Jews: Modern France (also HIST 4170) (HA-AS)**

Spring. 4 credits. V. Caron.  
For description, see HIST 4170.

**[JWST 4540 Maimonides and Averroes (also NES/RELST 4540, SPAN 4380) @ # (CA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
R. Brann.  
For description, see NES 4540.]

**JWST 4550 The World of the Phoenicians (also HIST 4552, NES 4550)**

Spring. 4 credits. C. Monroe.  
For description, see NES 4550.

**JWST 4580 Imagining the Holocaust (also COML 4830, ENGL 4580, GERST 4570) (LA-AS)**

Spring. 4 credits. D. Schwarz.  
For description, see ENGL 4580.

**[JWST 4644 Late Bronze Age World of Ugarit (also ARKEO/HIST/NES 4644/6644, CLASS 4744/7744, JWST 6644) @ # (HA-AS)**

Spring. 4 credits. Next offered 2010–2011.  
C. Monroe.  
For description, see NES 4644.]

**[JWST 4670 Wealth and Power in Early Civilizations (also NES 4670) @ # (HA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
C. Monroe.  
For description, see NES 4670.]

**JWST 4674 Topics in Modern European Intellectual and Cultural History (also COML/HIST 4740)**

Fall. 4 credits. D. LaCapra.  
For description, see HIST 4740.

**JWST 4738 Imagining the Mediterranean (also COML 4960, NES 4738) @ (LA-AS)**

Spring. 4 credits. G. Holst-Warhaft.  
For description, see NES 4738.

**JWST 4784 Israeli Nation: Self and Literature (also NES 4784)**

Spring. 4 credits. D. Starr.  
For description, see NES 4784.

**[JWST 4903 Methods in the Study of the Ancient Near East (also ARKEO/NES 4903)**

Spring. 4 credits. Next offered 2010–2011.  
D. I. Owen.  
For description, see NES 4903.]

**JWST 4991–4992 Independent Study—Undergraduate**

Fall and spring. Variable credit. Staff.

**[JWST 6112 Readings in Medieval Hebrew Poetry and Prose (also NES 6112)**

Fall. 4 credits. Next offered 2010–2011.  
R. Brann.]

**JWST 6150 Jews in German Culture since 1945 (also GERST 6150)**

Spring. 4 credits. L. Adelson.  
For description, see GERST 6150.

**JWST 6642 Topics in Ancient History (also HIST 6300, NES 6642, CLASS 7682)**

Spring. 4 credits. E. Rebillard.  
Topic: Sharing the City: Pagans, Jews and Christians in Late Antiquity. For description, see CLASS 7682.

## JOHN S. KNIGHT INSTITUTE FOR WRITING IN THE DISCIPLINES

The director of the John S. Knight Institute is Paul Lincoln Sawyer, professor in the Department of English. Katherine Gottschalk, senior lecturer in the Department of English, is the Walter C. Teagle Director of First-Year Writing Seminars. The institute's offices are in 101 McGraw Hall, 255–4061.

T. Carrick (Writing Workshop), D. Evans (Writing Workshop), D. Faulkner (Writing Workshop), K. Hjortshoj (Writing in the Majors), J. Martin (Writing Workshop), J. Pierpont (Writing Workshop), E. Shapiro (Writing in the Majors).

The John S. Knight Institute helps to coordinate the teaching of writing in all undergraduate schools and colleges (the School of Industrial and Labor Relations; the School of Hotel Administration; and the colleges of Agriculture and Life Sciences; Architecture, Art, and Planning; Arts and Sciences; Engineering; and Human Ecology). The program administers writing seminars for first-year and upperclass students, discipline-based seminars in its Writing in the Majors Program, tutorial writing classes, and seminars in the teaching of writing. More than 30 academic departments and programs participate in the program.

### First-Year Writing Seminars

For first-year students the Institute offers the First-Year Writing Seminars—more than 125 different courses in the humanities, social sciences, expressive arts, and sciences. Through introductory work in a particular field of study, seminars help students write good English expository prose—prose that, at its best, is characterized by clarity, coherence, intellectual force, and stylistic control. All seminars pursue this common aim through

small classes and adherence to a program-wide set of guidelines:

- Seminars should require at least six—and at most nine—formal essays on new topics, totaling 25–30 pages of polished prose.
- No fewer than three of the six to nine required essays should go through a process of development under the instructor's guidance (e.g., revision, peer review, responses to readings, conferences).
- All seminars should spend ample classroom time on work directly related to writing.
- Reading assignments in the course subject should be kept under ca. 75 pages per week to permit regular, concentrated work on writing.
- All students should meet in at least two individual conferences with the instructor.

Offerings change from semester to semester. Each semester's First-Year Writing Seminars are described on the web at <https://fws.arts.cornell.edu>.

First-Year Writing Seminars aim to ensure that students will enjoy the benefits of small classes. Instead of pre-enrolling in their writing courses, students request placement in one of five writing seminars by filling out an electronic ballot in August for the fall semester and in November for the spring semester. Over 90 percent receive one of their top three choices. After placement by ballot, students may change their writing seminars via electronic add and drop. Writing seminars may be added only during the first two weeks of each semester.

The colleges and the schools served by the Institute accept First-Year Writing Seminars in fulfillment of their individual graduation requirements in categories referred to variously as “first-year writing,” “oral and written expression,” and the like. The Institute does not decide whether students may graduate: it makes courses available. Individual colleges and schools administer their own graduation requirements.

Currently, most undergraduate students are required to take two First-Year Writing Seminars. Architecture majors, however, need only one. Hotel students fulfill their requirement in one semester, through HADM 1165 in one semester plus one First-Year Writing Seminar in the other. Agriculture and Life Sciences students can take First-Year Writing Seminars or choose from among a variety of other courses to fulfill their requirement.

All students who score 5 on the Princeton Advanced Placement Examination in English receive 3 credits. Such credits are awarded automatically; no application to the John S. Knight Institute or the Department of English is necessary. How these credits may be applied to first-year writing or other distribution requirements depends on the student's college and score. All students who score 5, except Architecture majors, may apply their 3 credits toward the writing requirements of their college. Of students who score 4, only Agriculture and Life Sciences students may apply their 3 credits toward the writing requirements of their college. Students should always consult their college registrars to be

certain that they understand their writing requirements.

Students who have already taken a First-Year Writing Seminar, or who score 4 or 5 on the Princeton AP exam, or 700 or better on the English Composition or CEEB tests, may enroll, space permitting, in the following upper-level First-Year Writing Seminars: ENGL 2700, 2710, or 2720.

Although there are no exemptions from college writing requirements, some students may fulfill all or part of their college's writing requirement through transfer credits or writing-course substitutions.

For work done at other institutions to be accepted as equivalent to First-Year Writing Seminars, students should demonstrate that they have done a reasonably equivalent amount of writing in a formal course (e.g., it is not sufficient to write one 30-page term paper.) Students in the College of Engineering and the College of Arts and Sciences must file an “application for transfer evaluation” to request writing credit for such courses; students in other colleges should consult their college registrars.

In unusual circumstances, upper-level students may petition to use a Cornell writing course other than a First-Year Writing Seminar to satisfy part of their writing requirement. The John S. Knight Institute must approve all such petitions in advance.

For information about the requirements for First-Year Writing Seminars and descriptions of seminar offerings, see the John S. Knight Institute web site at [www.arts.cornell.edu/knight\\_institute](http://www.arts.cornell.edu/knight_institute).

### English 2880–2890: Expository Writing

Helps students write with more confidence and skill in all disciplines. Open to Cornell sophomores, juniors, and seniors, ENGL 2880–2890 courses explore themes shaped by a genre or use of expository writing, by the common concerns of several disciplines, or by an interdisciplinary topic intimately related to the written medium. Although English department instructors make up roughly half the staff, the Knight Institute's involvement enables the course to extend and diversify its offerings in separately defined, 16-member sections that appeal to the varied interests and needs of students in many areas of study. Students may choose among a variety of sections focusing on such themes as “Teens Gone Wild: The Invention of Adolescence,” “Free Speech in the 21st Century,” and “TV Nation: Television and Identity in America.” All staff are selected because their special interests and their training and experience in First-Year Writing Seminars promise original course design and superior performance.

### Writing in the Majors

Spanning the humanities, social sciences, and sciences, the Knight Institute's upper-level, Writing in the Majors courses do not satisfy formal writing requirements, and faculty participation is entirely voluntary. While all Writing in the Majors courses include extensive writing, usually with guided revision, they also emphasize other forms of active, interactive learning essential to scholarship and careers in the disciplines. Writing in the Majors initiatives have included individual and collaborative research projects, collaborative writing, oral presentations, group

oral exams, field studies, authentic student-designed laboratory experiments, debates, analytical and critical reading exercises, topical symposia, conversation groups, student-led discussions, poster sessions, and many kinds of informal writing, including online exchanges. Varying radically in design and size, from enrollments of fewer than 10 students to more than 300, Writing in the Majors courses over the past 20 years have involved collaboration with 150 faculty members and more than 250 graduate teaching assistants to enrich learning in 75 upper-level courses offered in 24 departments. Since 2007–2008, the Knight Institute has substantially increased the number of Writing in the Majors courses offered at the 2000 level. These courses are intended to provide students who are still in the early stages of their academic careers with opportunities to engage with disciplinary subject matter through writing.

### WRIT 7101 Writing in the Majors Seminar

Fall and spring. 1 credit. S–U grades only. Teaching assistants assigned to Writing in the Majors projects enroll in a six-week course on teaching strategies in advanced instruction.

### Courses in Community Literacy

Writing outreach has become an increasingly important feature of writing programs in various campuses. Cornell's rich opportunities in service learning are formed on the assumption that learning by doing has a valid place in a university curriculum; they include volunteer activities and for-credit courses that span colleges and departments, as well as a concentration in Public Service Scholarship, which is sponsored by the Public Service Center. The courses listed below all concern writing as an interaction with community members outside Cornell, in the form of oral interviews, mentoring, or other collaborative work. For other writing courses with outreach components, see the First-Year Writing Seminar WRIT 1400 Common Ground: Cornell and Ithaca Students in Collaboration and ENGL 2890.106 Fieldwriting: Telling Community Stories, a section of ENGL 2890 Expository Writing. For opportunities to receive training and practice as a writing tutor working with Cornell undergrads, contact Tracy Hamler Carrick, director of the Writing Walk-In Service.

### [WRIT 4100 Learning Behind Bars

4 credits. Next offered 2010–2011.

P. Sawyer.

A service learning course offered in conjunction with the Basic Writing course of the Prison Education Project. Course work includes tutoring inmates once a week at Auburn Correctional Facility in addition to regular class meetings at Cornell.]

### WRIT 4130 Service Learning and Democratic Citizenship: The Literature of Social Action and Social Vision

Spring. 3 credits. D. Evans.

To what extent is civic engagement fundamental to democratic citizenship? This course seeks to answer that question by exploring the components of service learning as a discipline and to strengthen the intellectual foundation of students who wish to incorporate civic engagement into their curriculum. Students will become familiar with the history of service learning, explore competing theories of social justice and social

inequality, and develop a framework for social action that exists at the juncture of theory and practice. Readings will include texts by Dewey, Freire, bell hooks, Franklin, Jefferson, Thoreau, Addams, Baldwin, King, Dorothy Day, and Fanon. Weekly seminar papers as well as a term paper through which students develop their own philosophy of civic engagement.

#### **WRIT 4180 Audio Documentary**

Spring. 3 credits. A. Hammer.  
For description, see LA 4180.

#### **Teaching Writing**

Each summer and fall, the institute offers instruction in the teaching of writing to new staff members in the First-Year Writing Seminars and other interested instructors. Teaching Writing, offered in the summer or fall, is primarily a course for graduate students. The program also sponsors a summer apprenticeship program for a limited number of graduate students, and a summer seminar for faculty members interested in the teaching of writing.

#### **WRIT 7100 Teaching Writing**

Summer and fall. 1 credit. S–U grades only. Prepares graduate instructors of Cornell's First-Year Writing Seminars to teach courses that both introduce undergraduates to particular fields of study and help them develop writing skills they will need throughout their undergraduate careers. Seminar discussions and readings on pedagogical theories and practices provide an overview of the teaching of writing within a disciplinary context. As part of the course, participants develop written assignments designed to be used in their own First-Year Writing Seminars.

#### **Writing Workshop**

The John S. Knight Institute offers "An Introduction to Writing in the University" for first-year students (or transfer students needing writing credit) through the Writing Workshop. This course is designed for students who have had little training in composition or who have serious difficulty with writing assignments.

WRIT 1370 and 1380 are graded S–U only, and students receiving a grade of S are granted credit toward their college writing requirements. Students who think this course might be appropriate including non-native speakers of English scoring less than 600 on the Test of English as a Foreign Language (TOEFL) should attend the assessment sessions offered by the Writing Workshop during orientation week each fall. The workshop also offers a Walk-In Service (see below) to help students work on writing assignments. The director is Joe Martin, senior lecturer in the Writing Workshop. The workshop offices are in 174 Rockefeller Hall, 255-6349.

#### **The Writing Walk-In Service**

Through the Writing Walk-In Service, the Writing Workshop offers tutoring assistance in writing to any student who needs help with a writing project. The Writing Walk-In Service has tutors available during the academic year in 174 Rockefeller Hall and North and West Campus residential areas. The director is Tracy Carrick. For information, contact the Writing Workshop, 174 Rockefeller Hall, 255-6349.

#### **WRIT 1137-1138, 1134 An Introduction to Writing in the University**

1137, fall; 1138, spring; 1134, summer. 3 credits each semester. Limited to 12 students per sec in fall and spring, 6 in summer. Prerequisite: permission of instructor. S–U grades only.

Writing seminar designed for students who need more focused attention to master the expectations of academic writing. Emphasizes the analytic and argumentative writing and critical reading essential for university-level work. With small classes and weekly student/teacher conferences, each section is shaped to respond to the needs of students in that particular class.

#### **WRIT 1139 Special Topics in Writing**

Fall and spring. 3 credits. Cannot fulfill writing or distribution requirements. Prerequisites: undergraduate standing; permission of instructor. S–U grades only. These courses allow students the opportunity to resolve significant writing challenges that have interfered with their academic progress. Students must have ongoing writing projects on which to work. Instruction is in weekly tutorials. Interested students should go to 174 Rockefeller for more information.

#### **WRIT 7102 Graduate Writing Workshop**

Fall and spring. 3 credits. Limited to 10 students per sec. Prerequisites: graduate standing; permission of instructor. S–U grades only.

Gives graduate students the opportunity to resolve significant writing challenges that have interfered with their academic progress. Students must have ongoing writing projects to work on. Instruction is in weekly tutorials. Interested students should go to 174 Rockefeller Hall for further information.

#### **WRIT 7103 Work in Progress**

Fall and spring. 3 credits. Limited to 10 students per sec. Prerequisites: graduate standing; permission of instructor. S–U grades only.

Writing seminar for graduate students who have substantial work in progress, such as professional articles, theses, or dissertations. In the first two weeks students discuss rhetorical and stylistic features of scholarly writing and methods of composing and revising, with relevant readings. Remaining weeks emphasize exchange and discussion of drafts, supplemented by individual conferences. The course goal is the improvement and completion of student writing projects.

#### **KHMER (CAMBODIAN)**

See "Department of Asian Studies."

#### **KOREAN**

See "Department of Asian Studies."

### **LATIN AMERICAN STUDIES PROGRAM**

190 Uris Hall

Debra Ann Castillo, Romance Studies; Comparative Literature, Director, Latin American Studies; Lourdes Benería, City and Regional Planning; David Block, Library; Bruno Bosteels, Romance Studies; Maria

Lorena Cook, ILR, Collective Bargaining; Law and History; Raymond Craib, History; Martin De Santos, Development Sociology; Maria Fernandez, History of Art; Gary Fields, International Labor Relations; Economics; Gustavo Flores-Macias, Development Sociology; Maria Antonia Garcés, Romance Studies; Maria Cristina García, History; Frederic Gleach, Anthropology; William W. Goldsmith, City and Regional Planning; Angela Gonzales, Development Sociology; John S. Henderson, Anthropology; Luz Horne, Romance Studies; Eduardo Iñigo-Elias, Laboratory of Ornithology; Steven Kyle, Applied Economics and Management; Cecilia Lawless, Romance Studies; Luis Morato-Peña, Romance Studies; Jura Oliveira, Romance Studies; Pilar Parra, Human Ecology, Nutritional Science; Edmundo Paz Soldán, Romance Studies; Pedro David Perez, Applied Economics and Management; Mary Kay Redmond, Romance Studies; Kenneth Roberts, Government; Eloy Rodriguez, Plant Biology; Jeannine Routier-Pucci, Romance Studies; Arturo Sanchez, City and Regional Planning; Vilma Santiago-Irizarry, Anthropology; Rebecca Stoltzfus, Nutrition; Monroe Weber-Shirk, Civil and Environmental Engineering; Stephen Younger, Human Ecology Nutritional Science.

Cornell's Latin American Studies Program (LASP), founded in 1961, has become one of the nation's premier Latin American centers. Today, as part of the Mario Einaudi Center for International Studies, LASP provides a focus for all activities on the Cornell campus oriented toward Latin America. Latin Americanists are active in most of Cornell's colleges and schools, with diverse strengths including agricultural sciences, anthropology, art history, city and regional planning, government, history, labor relations, languages, literature and nutrition.

LASP's mission is to stimulate learning about Latin America by supporting Cornell's Latin America curriculum; nurturing faculty and student research; sponsoring events on and off campus; sponsoring visiting scholars from Latin America; and establishing relationships with universities and other institutions in Latin America. LASP offers a minor in Latin American Studies for undergraduate and graduate students, fellowships, summer programs, and more.

#### **Undergraduate Minor**

The undergraduate minor in Latin American Studies is earned with a minimum of 15 credits in Latin American Studies courses and with acquired facility in Spanish or Portuguese. Language facility is demonstrated by successful completion of SPAN 2190 or PORT 2190 or the equivalent. Course selections must represent at least three fields, including one at an advanced level. The complete list of approved courses is available at <http://einaudi.cornell.edu/academics>. This list includes all LATA courses and others across colleges and schools with at least 50 percent Latin American content.

#### **Courses**

##### **LATA 1950 Colonial Latin America (also AIS/HIST 1950) @ # (HA-AS)**

Fall 4 credits. R. Craib.  
For description, see HIST 1950.

**LATA 1960 Modern Latin America (also HIST 1960) @ (HA-AS)**

Spring. 4 credits. R. Craib.  
For description, see HIST 1960.

**LATA 2150 The Tradition of Rupture (also SPAN 2150)**

Fall, spring. 4 credits. Fall: M. A. Garcés;  
spring: J. Pinet.  
For description, see SPAN 2150.

**LATA 2170 Readings—Medieval/Early Mod Sp (also SPAN 2170) @ (LA-AS)**

Fall. 4 credits. M. A. Garcés.  
For description, see SPAN 2170.

**LATA 2200 Perspectives on Latin America (also SPAN 2200) @ (CA-AS)**

Spring. 3 credits. B. Bosteels and  
C. Lawless.  
For description, see SPAN 2200.

**LATA 2308 Caribbean History (also ASRC 2308) (HA-AS)**

Fall. 4 credits. J. Byfield.  
For description, see ASRC 2308.

**LATA 3010 Hispanic Theater Production (also SPAN 3010)**

Fall. 1-3 credits. D. Castillo.  
For description, see SPAN 3010.

**LATA 3020 Spanish in the Disciplines (also SPAN 3020)**

Fall and spring, 1 credit. Staff. Sections will be offered with the following courses in 2009-2010: AEM 1102, ECON 1102, HIST 1950, IARD 4010, IARD 6010, MUSIC 3633, SPAN 2200.  
For description see SPAN 3020.

**LATA 3256 Archaeology of the Andes (also ANTHR/ARKEO 3256) @ # (HA-AS)**

Spring. 4 credits. J. Henderson.  
For description, see ARKEO 3256.

**LATA 3290 Comparative Politics of Latin America (also GOVT 3293) @ (SBA-AS)**

Fall. 4 credits. K. Roberts.  
For description, see GOVT 3293.

**LATA 3390 Political Economy of Mexico (also ILRIC 3390)**

Spring. 4 credits. M. Cook.  
For description, see ILRIC 3390.

**LATA 3600 Autobiographical Narrative and the Cuban Socialist Revolution (also SPAN 3600) (LA-AS)**

Fall. 4 credits. G. Aching.  
For description, see SPAN 3600.

**LATA 3650 Gender and Globalization (also CRP 3650/FGSS 3600) (SBA-AS)**

Fall. 3 credits. L. Benería.  
For description, see CRP 3650.

**[LATA 3680 Modern and Contemporary Latin American Art (also ARTH 3550, LSP 3551) (HA-AS)]**

Spring. 4 credits. M. Fernandez.  
For description, see ARTH 3680.

**LATA 3734 Brazil: Many Cultures, One Nation (also ANTHR 3734) @ (CA-AS)**

Spring. 4 credits. J. Fajans.  
For description, see ANTHR 3734.

**LATA 3760 Latino/Latin American Cities (also CRP 3760)**

Fall. 3 credits. A. Sanchez.  
For description, see CRP 3760.

**LATA 4010 Experience Latin America I (also IARD 4010)**

Fall. 2 credits. D. Castillo and T. Tucker.  
For description see IARD 4010.

**LATA 4310 Migrant Workers (also LSP/HIST 4310) (HA-AS)**

Spring. 4 credits. R. Craib.  
For description see LSP 4310.

**LATA 4350 Labor Markets and Income Distribution in Developing Countries (also ILRIC 4350)**

Spring. 4 credits. G. Fields.  
For description, see ILRIC 4350.

**LATA 4940 Special Topic in Latin America (also IARD 4940)**

Summer. 1-3 credits. D. Castillo.  
For description see IARD 4940.

**LATA 4960 International Internship in Latin America (also IARD 4960)**

All semesters. 1-6 credits. D. Castillo.  
For description see IARD 4960.

**LATA 4970 Independent Study in LATA (also IARD 4970)**

All semesters. 1-3 credits. Staff.

**LATA 5190 Urban Theory and Spatial Development (also CRP 5190)**

Spring. 3 credits. W. W. Goldsmith.  
For description, see CRP 5190.

**LATA 6000 Contemporary Issues in Latin America (also ANTHR 6200)**

Fall and spring. 1 credit. Director, Latin American Studies Program.  
An exploration of critical topics in the anthropology, art, economics, history, literature, political science, and sociology of Latin America. Course features guest speakers from Cornell and other institutions.

**LATA 6010 Experience Latin America II (also IARD 6010)**

Spring. 3 credits. D. Castillo and T. Tucker.  
For description see IARD 6010.

**LATA 6256 Maya History (also ANTHR/ARKEO 6256)**

Fall. 4 credits. J. Henderson.  
For description, see ANTHR 6256.

**LATA 6310 Comparative Labor Movements in Latin America (also ILRIC 6310)**

Fall. 4 credits. M. Cook.  
For description, see ILRIC 6310.

**LATA 6481 Seminar in Latin American History (also HIST 6481)**

Fall. 4 credits. R. Craib.  
For description, see HIST 6481.

**LATA 6600 Brazilian Literature Since 1850s (also PORT 6600)**

Fall. 4 credits. L. Horne.  
For description, see PORT 6600.

**LATA 6740 Transformations in the Global South (also CRP 6740)**

Spring. 4 credits. W. W. Goldsmith.  
For description, see CRP 6740.

**LATA 6760 Latino/Latin American Cities (also CRP 6760)**

Fall. 3 credits. A. Sanchez.  
For description, see CRP 6760.

**LATA 7390 Political Economy of Mexico (also ILRIC 7390)**

Spring. 4 credits. M. Cook.  
For description, see ILRIC 7390.

## LATINO STUDIES PROGRAM

434 Rockefeller Hall

**Undergraduate Minor**

The Latino Studies Program offers an interdisciplinary undergraduate minor in Latino studies, with courses drawn from history, sociology, anthropology, literature, and language, but the program also cross-lists courses from other colleges.

- To complete the minor, students must take at least five courses (a minimum of 15 credits) in Latino Studies, including a core course, Latinos in the United States (DSOC 2650, LSP 2010, and SOC 2650), which is offered each spring semester.
- Students are required to include at least three courses from Groups I and II (one from each group, and another from either group). Of the three courses, two must be at the 3000 or 4000 level.

One elective course (see list below) can count toward the minor. Courses must be completed with a letter grade of C or above. Independent studies and first-year writing seminars do not count toward minor requirements. The list varies each semester in accordance with faculty schedules and visiting appointments.

**Group I: Humanities**

- LSP 2250 The United States-Mexico Border: History, Culture, Representation (also AMST/HIST 2250)
- LSP 2400 Intro to Latina/o Literature (also AMST 2401, ENGL 2400)
- LSP 2460 Contemporary Narratives by Latina Writers (also FGSS/SPAN 2460)
- LSP 2480 Poetry of the Latina/o Experience (also SPAN 2480)
- LSP 2600 Latinos in the United States: Colonial Period to 1898 (also AMST 2599, HIST 2600)
- LSP 2610 Latinos in the United States: 1898 to the Present (also AMST/HIST 2610)
- LSP 2640 Survey in U.S.-Latino Literature (also AMST 2641, ENGL 2640)
- LSP 3930 Contemporary Latino Writers (also SPAN 3930)
- LSP 3980 Latina/o Popular Culture (also AMST 3981, ENGL 3780)
- LSP 4130 Classics of Latina/o Literature (also SPAN 4130)
- LSP 4301 Queering Latinidad (also ENGL/AMST 4301)
- LSP 4620 Senior Seminar in Latina/o Studies: Chicana Feminism in a Globalizing World (also ENGL 4620)

**Group II: Social Sciences**

- LSP 2010 Latinos in the United States (also DSOC/SOC 2650)
- LSP 2200 Sociology of Health and Ethnic Minorities (also DSOC 2200)
- LSP 2300 Latino Communities (also AMST/DSOC 2300)
- LSP 2721 Anthropological Representation: Ethnographies on Latino Culture (also AMST/ANTHR 2721)

- LSP 3180/ Politics of Community Development: Transnational Latinos and the U.S. City (also CRP 3180/5180)
- LSP 3550 Latinos, Law, and Identity (also AMST/DSOC 3550)
- LSP 3750 Comparative U.S. Racial and Ethnic Relations (also AMST/DSOC 3750)
- LSP 3760/ Latino/Latin American Cities (also CRP 3760/6760)
- LSP 3777 The United States (also AMST/ANTHR 3777)
- LSP 3950/ Immigrant Entrepreneurship (also CRP 3111/6111)
- LSP 4032 Immigration and Politics (also AMST/GOVT 4032)
- LSP 4310/ Migrant Workers (also HIST 6310 4310/6310, ILRCB 4020)
- LSP 4510 Multicultural Issues in Education (also AMST/EDUC 4510)
- LSP 6101 Political Identity: Race, Ethnicity, and Nationalism (also GOVT 6101)
- LSP 6424 Ethnoracial Identity in Anthropology, Language, and Law (also ANTHR/AMST 6424, LAW 7231)
- LSP 6460 Latino Language, Ideology, and Practice (also ANTHR 6460)

**Electives:**

- LSP 1101 Research Strategies in Latino and Africana Studies (also ASRC 1900)
  - LSP 1110 American Diversity: The 20th Century (also AAS/AMST 1110, HIST 1610)
  - LSP 1301 Introduction to World Music I: Africa and the Americas (also MUSIC 1301)
  - LSP 2020 Spanish for English-Spanish Bilinguals (also SPAN 2000)
  - LSP 2410 Immigration and Ethnicity in 20th-Century United States (also AMST/HIST 2400)
  - LSP 3110 Social Movements (also AIS/DSOC 3110)
  - LSP 3191 Racial and Ethnic Politics in the United States (also AMST/GOVT 3191)
  - LSP 3551 Modern and Contemporary Latin American Art (also ARTH 3550, LATA 3680)
  - LSP 4050/6050 U.S.-Cuba Relations (also AMST/HIST/LATA 4050/6050)
  - LSP 4230 Borders (also COML 4230, SPAN 4900)
  - LSP 4850 Immigration: History, Theory, Practice (also AMST/HIST 4850)
  - LSP 4851 Refugees (also HIST/AMST 4851)
  - ART 2170 Art and the Multicultural Experience
- Other elective courses will be determined each semester.

**Graduate Minor**

The Latino Studies Program at Cornell offers Latino Studies as a minor field in graduate studies. Graduate students select a faculty member from the field of Latino Studies to serve as a minor member on their special committee. Faculty expertise spans multiple

fields, including anthropology, history, literature, law, sociology, government, education, planning, and human development, enabling students to develop programs that meet their specific interests.

**Requirements:** Students wishing to complete a graduate minor in Latino Studies need to formally register with the Latino Studies Program office, take an upper-level seminar as well as work intensively with a faculty member outside of their major field. Over the course of their study they will be expected to take two other Latino Studies graduate or advanced undergraduate courses outside of their major field. In lieu of available courses, the student and his or her minor field advisor might design a special project that culminates in a paper given at a conference or presented for publication. Each special project will require the approval of the director of graduate studies for the minor field.

[www.gradschool.cornell.edu/fields.php?id=MF](http://www.gradschool.cornell.edu/fields.php?id=MF)

**Library**

The Latino Studies Program library in 432 Rockefeller Hall serves Cornell students, faculty, staff, and the wider local community. The library maintains print and media material pertinent to U.S. Latino issues including a collection of books, research material, archives, and films. The library and conference room also provide meeting space for more than 25 Latino student organizations.

**Courses**

**LSP 1101 Research Strategies in Latino and Africana Studies (also ASRC 1900)**

Spring (half-semester course; starts 3/9/2010). 1 credit. T. Cosgrave and E. Acree.

The digital revolution has made an enormous amount of information available to research scholars, but discovering resources and using them effectively can be challenging. This course introduces students with research interests in Latino and Africana Studies to search strategies and methods for finding materials in various formats (e.g., digital, film, and print) using information databases such as the library catalog, print and electronic indexes, and the World Wide Web. Instructors provide equal time for lecture and hands-on learning. Topics include government documents, statistics, subject-specific online databases, social sciences, the humanities, and electronic citation management.

**[LSP 1301 Introduction to World Music: Africa and the Americas (also MUSIC 1301) @ (CA-AS)]**

Spring. 3 credits. 1-hour disc. Next offered 2010-2011. S. Pond.

For description, see MUSIC 1301.]

**LSP 2010 Latinos in the United States (also DSOC/SOC 2650)**

Spring. 3 credits; 4-credit option available. H. Velez.

For description, see SOC 2650.

**LSP 2020 Spanish for English-Spanish Bilinguals (also SPAN 2000)**

Spring. 4 credits. D. Cruz de Jesus.

For description, see SPAN 2000.

**LSP 2200 Sociology of Health and Ethnic Minorities (also DSOC 2200)**

Fall. 3 credits. P. Parra.

Discusses the health status of minorities in the United States. Specifically explores intragroup diversity such as migration, economic status, and the influence of culture and the environment on health status and access to health care. Although special attention is given to Latino populations, discussion encompasses other minorities who face similar problems.

**[LSP 2250 U.S.-Mexico Border: History, Culture, Representation (also AMST/HIST 2250) (CA-AS)]**

Fall. 4 credits. Next offered 2010-2011. M. C. Garcia.]

**[LSP 2300 Latino Communities (also AMST/DSOC 2300)]**

3 credits. Next offered 2010-2011. R. Mize. For description, see DSOC 2300.]

**LSP 2400 Intro to Latino Literature (also AMST 2401, ENGL 2400) (LA-AS)**

Fall. 4 credits. M. P. Brady.

For description, see ENGL 2400.

**[LSP 2460 Contemporary Narratives by Latina Writers (also FGSS/SPAN 2460)]**

3 credits. Next offered 2010-2011.

D. Castillo.]

**LSP 2600 Latinos in the United States: Colonial to 1898 (also AMST 2599, HIST 2600) # (HA-AS)**

Fall. 4 credits. M. C. Garcia.

For description, see HIST 2600.

**[LSP 2610 Latinos in the United States: 1898 to the Present (also AMST/HIST 2610) # (HA-AS)]**

Spring. 4 credits. Next offered 2010-2011.

M. C. Garcia.

For description, see HIST 2610.]

**[LSP 2721 Anthropological Representation: Ethnographies on Latino Culture (also AMST/ANTHR 2721)]**

3 credits. Next offered 2010-2011.

V. Santiago-Irizarry.]

**[LSP 3130 Spanish Writing Workshop for Advanced English-Spanish Bilinguals (also SPAN 3130)]**

1 credit. Prerequisite: permission of instructor. Students must be registered concurrently with LSP 2020. Next offered 2010-2011.]

**LSP 3180/5180 Politics of Community Development: Transnational Latino and the U.S. City (also CRP 3180/5180)**

Spring. 3 credits. A. Sanchez.

For description, see CRP 3180/5180.

**[LSP 3191 Racial and Ethnic Politics (also AMST/GOVT 3191)]**

4 credits. Next offered 2010-2011.

M. Jones-Correa.]

**LSP 3550 Latinos, Law, and Identity (also AMST/DSOC 3550)**

Fall. 3 credits. R. Mize.

For description, see DSOC 3550.

**[LSP 3551 Modern and Contemporary Latino/Latin American Art (also ARTH 3550, LATA 3680)]**

4 credits. Next offered 2010-2011.

M. Fernandez.

For description, see ARTH 3550.]

**LSP 3750 Comparative U.S. Racial and Ethnic Relations (also AMST/DSOC 3750)**

Spring. 3 credits. R. Mize.  
For description, see DSOC 3750.

**LSP 3760/6760 Latin/Latino American Cities (also CRP 3760/6760)**

Fall. 3 credits. A. Sanchez.  
For description, see CRP 3760/6760.

**[LSP 3777 The United States (also AMST/ ANTHR 3777) (CA-AS)]**

Fall. 4 credits. Next offered 2011-2012.  
V. Santiago-Irizarry.]

**LSP 3930 Contemporary Latino Writers (also SPAN 3930) (LA-AS)**

Spring. 3 credits. D. Castillo  
For description, see SPAN 3930.

**LSP 3950/6590 Immigrant Entrepreneurship, Markets, and the Restructured U.S. City: The Latino Case (also CRP 3111/6111)**

Spring. 3 credits. A. Sanchez.  
For description, see CRP 3850.04/5850.04.

**[LSP 3980 Latina/o Popular Culture (also AMST 3981, ENGL 3980) (CA-AS)]**

4 credits. Next offered 2011-2012.  
M. P. Brady.]

**[LSP 4032 Immigration and Politics (also AMST/GOVT 4032) (SBA-AS)]**

4 credits. Next offered 2011-2012.  
M. Jones-Correa.]

**[LSP 4050 U.S.-Cuba Relations (also AMST/HIST/LATA 4050/6050)]**

4 credits. Next offered 2010-2011.  
M. C. Garcia.]

**[LSP 4130 Classics of Latina/o Literature (also SPAN 4130) (LA-AS)]****LSP 4200-4210 Undergraduate Independent Study**

Fall and spring. 2-4 credits. Prerequisite: permission of instructor.  
Guided independent study.

**LSP 4301 Queering Latinidad (also ENGL/ AMST 4301)**

Spring. 4 credits. M. P. Brady.  
For description, see AMST 4301

**[LSP 4310/6310 Migrant Workers (also HIST 4310/6310, ILRCB 4020) (HA-AS)]**

4 credits. Next offered 2010-2011. R. Craib.  
Emphasis is on migrant farmworkers in the United States, mostly from the Caribbean and mainland Latin America, with an increasing focus as the semester progresses on farmworkers in central and upstate New York. Course requirements: analytical essays, a final paper, and participation in a service-learning project that are arranged in conjunction with the instructor.]

**LSP 4510 Multicultural Issues in Education (also AMST/EDUC 4510)**

Fall. 3 credits. S. Villenas.  
For description, see EDUC 4510.

**LSP 4850 Immigration: History, Theory, and Practice (also AMST/HIST 4850) (HA-AS)**

Fall. 4 credits. Prerequisite: permission of instructor. M. C. Garcia.  
For description, see HIST 4850.

**LSP 4851 Refugees (also HIST/AMST 4851) (HA-AS)**

Spring. 4 credits. M. C. Garcia.  
For description, see HIST 4851.

**LSP 6200-6210 Graduate Independent Study**

Fall, spring. 2-4 credits. Prerequisite: permission of instructor.  
Guided independent study.

**[LSP 6424 Ethnoracial Identity in Anthropology, Language, and Law (also ANTHR 6424, LAW 7231)]**

4 credits. Next offered 2010-2011.  
V. Santiago-Irizarry.]

**LAW AND SOCIETY**

Co-directors: M. Lynch (science and technology studies), 302 Rockefeller Hall, 255-7294, mel27@cornell.edu, and R. Lieberwitz (ILR), 287A Ives Hall, 255-3289, rl15@cornell.edu

Advisers: G. Alexander (law), E. Anker (English), D. Dunning (psychology), M. Evangelista (government), C. Grumbach (Ethics & Public Life Program), G. Hay (law), S. Hilgartner (science and technology studies), P. Hyams (history), M. Karns ILR), M. Katzenstein (government), R. Miller (philosophy), M. B. Norton (history), D. Powers (Near East studies), A. Riles (law), V. Santiago-Irizarry (anthropology)

The Law and Society minor provides an opportunity for focused study of the interaction between law and society from an interdisciplinary perspective predominantly rooted in the social sciences and humanities: anthropology, comparative literature, economics, government, history, philosophy, psychology, science and technology studies, and sociology.

The Law and Society minor is open to all undergraduates. Though many of those who register for the minor have intentions of going on to law school or a law-related profession, Law and Society is not designed as a minor only for students interested in entering law school. The best candidates for the Law and Society minor are students interested in broader relations between legal institutions and historical and contemporary societies. This broader topic is, and should be, of interest to many students, regardless of whether they intend to enter the legal profession. A large selection of courses and on-campus events is available for completing the minor. The benefits of a student's participation depend on the particular courses and events selected, and the effort and interest invested.

**Registration**

To allow sufficient time for a coherent program of study to be developed and completed, students who have an interest in the law and society minor are required to register before the start of the second semester of their junior year. Under extenuating circumstances, late registrations may be accepted at the discretion of the directors, but only if the registrant has a plan already formulated for completing the minor's requirements. Late registrants can use the standard online registration form but should also submit the online completion plan at the time of registration. Information about, and forms required for, the law and society minor can be found at [www.arts.cornell.edu/epl/lawsociety.htm](http://www.arts.cornell.edu/epl/lawsociety.htm). As part of the registration process, each student is assigned a law and society adviser who is available to provide

guidance with course selection and help with other questions or concerns related to the student's participation in the minor. The name and contact information of the assigned adviser are included in a welcome e-mail that is sent shortly after a student's registration form is received.

**Four-Event Requirement**

Many students find access to and participation in law and society events a particularly beneficial component of the minor. Officially registered law and society students are notified of qualifying events (usually at least 10 per semester) and other information related to the concentration through an e-mail listserve and postings outside the Ethics and Public Life office. Between registration and graduation, students must attend a minimum of four events (signature on official sign-in sheets is the required proof of attendance for credit); students seeking a broader perspective are encouraged to attend as many events as they can.

**Four-Course Requirement**

Law and society is an interdisciplinary minor requiring students to successfully complete four courses (at least 12 credits) from the approved course list, earning a letter grade no lower than C+ in each (C- for appropriate courses completed before the spring 2008 semester). Students registering for law and society after the conclusion of the spring 2008 semester will be required to select one course each from four (out of five) different categories of study. At least two courses must fall outside the student's major, and no more than two courses can be in the same subject area, the only exception being cross-listed courses, which may be counted in any of the departments listed. Appropriate courses taken before registering for the law and society minor can be counted toward the four-course requirement. There are no required courses, but past students have found GOVT 3131 and PSYCH 2650 particularly relevant. For the most current list of approved courses, please consult the Law and Society web page or contact the EPL office.

At the discretion of the law and society directors, permission may be granted to substitute an appropriate course that has been:

1. accepted from another educational institution toward the student's degree program (one course maximum)
2. taken as part of a semester abroad program and approved by Cornell for course credit
3. recently added to the Cornell curriculum

The best evidence of a course's appropriateness is the syllabus, which is often available online and can be submitted electronically to [epl@cornell.edu](mailto:epl@cornell.edu) for a determination. Petitions for course substitutions should be submitted before the student's final semester and include identification of a course already approved that is closest in content to the course being petitioned for approval.

**Progress Toward Completion**

To facilitate tracking of courses taken and events attended, a printable student progress record is available on the Law and Society

web page. By the end of the student's next-to-last semester before graduation, the course and event information from the student progress record is to be submitted electronically using the online Completion Plan.

The law and society minor is administered by the Ethics and Public Life (EPL) office. For more information, consult [www.arts.cornell.edu/epl/lawsociety.htm](http://www.arts.cornell.edu/epl/lawsociety.htm) or contact the EPL administrative assistant at 240 Goldwin Smith Hall, [ep@cornell.edu](mailto:ep@cornell.edu), 255-8515.

## LESBIAN, GAY, BISEXUAL & TRANSGENDER STUDIES

S. Bem, B. Correll, I. DeVault, J. Frank, J. E. Gainer, S. Haenni, E. Hanson, C. Howie, I. V. Hull, P. Hyams, M. Katzenstein, P. Liu, T. Loos, K. March, C. A. Martin, K. McCullough, T. Murray, M. B. Norton, J. Peraino, M. Raskolnikov, N. Salvato, R. Savin-Williams, A. M. Smith, A. Villarejo, S. Warner, R. Weil

The field of Lesbian, Gay, Bisexual & Transgender Studies is devoted to the interdisciplinary study of the social construction of sexuality. LGBT Studies is founded on the premise that the social organization of sexuality is best studied from the perspectives offered by those positions that have been excluded from established cultural norms.

In addition to offering a graduate minor, the field of LGBT Studies offers an undergraduate minor, which is administered under the auspices of Feminist, Gender, & Sexuality Studies (FGSS) and which consists of four courses from the list below. Although most of the courses in LGBT Studies (including those on men) generally fall under the aegis of FGSS and are hence crosslisted with it, not all of the courses in FGSS are sufficiently focused enough on the social construction of sexuality per se to be part of the LGBT Studies minor. In order to qualify for the minor, courses must devote a significant portion of their time to sexuality and to questioning the cultural and historical institution of exclusive heterosexuality. Students selecting their four courses from the LGBT Studies subset must identify their minor as either LGBT Studies or FGSS; they cannot double-count their credits and thereby use the same courses for both minors.

Students interested in the LGBT Studies minor should contact the Lesbian, Gay, Bisexual, & Transgender Studies Office in 391 Uris Hall.

### Courses

#### **ANTHR 2400 Cultural Diversity and Contemporary Issues**

Fall. 3 credits. Staff.  
For description, see ANTHR 2400.

#### **ANTHR 3421/6421 Sex and Gender in Cross-Cultural Perspective (also FGSS 3210/6210)**

Fall. 4 credits. K. March.  
For description, see ANTHR 3421.

#### **[ENGL 2760 Desire (also COML/FGSS 2760, THETR 2780)**

Spring. 4 credits. Letter grades only. Next offered 2011–2012. E. Hanson.]

#### **ENGL 3550 Decadence (also COML/FGSS 3550)**

Spring. 4 credits. E. Hanson.  
For description, see ENGL 3550.

#### **[ENGL 4780 Intersections in Lesbian Fiction (also AMST 4780, FGSS 4770)**

4 credits. Next offered 2011–2012.  
K. McCullough.]

#### **[ENGL 6030 The Question of Feminist and Queer Criticism in Premodern Studies (also FGSS 6030)**

Spring. 4 credits. Next offered 2010–2011.  
M. Raskolnikov.]

#### **[ENGL 6550 Modernist Fiction and the Erotics of Style (also FGSS 6550)**

Spring. 4 credits. E. Hanson.]

#### **FGSS 2010 Introduction to Feminist, Gender, and Sexuality Studies**

Fall and spring. 4 credits. J. Juffer and S. Martin.  
For description, see FGSS 2010.

#### **[FGSS 3702 Desire and Cinema (also COML/ENGL 3702)**

Spring. 4 credits. Next offered 2011–2012.  
E. Hanson.]

#### **FGSS 4000 Senior Seminar in Feminist, Gender, and Sexuality Studies**

Fall. 4 credits. S. Martin.  
For description, see FGSS 4000.

#### **[FGSS 4791 Transgender and Transexuality (also ENGL 4791)**

Fall. 4 credits. Next offered 2011–2012.  
M. Raskolnikov.]

#### **[GOVT 4625 Sexuality and the Law (also AMST 4265, FGSS 4610)**

Spring. 4 credits. Next offered 2011–2012.  
A. M. Smith.]

#### **[GOVT 7625 Sexuality and the Law (also FGSS 7620)**

Spring. 4 credits. Next offered 2009–2010.  
A. M. Smith.]

#### **HD 3840 Gender and Sexual Minorities (also FGSS 3850)**

Fall. 3 credits. K. Cohen.  
For description, see HD 3840.

#### **[HIST 2090 Seminar in Early America (also AMST/FGSS 2090)**

Fall. 4 credits. Next offered 2010–2011.  
M. B. Norton.]

#### **[HIST 2730 Women in American Society, Past and Present (also FGSS 2730)**

Fall. 4 credits. Next offered 2010–2011.  
M. B. Norton.]

#### **[HIST 3680 Marriage and Sexuality in Medieval Europe (also FGSS/RELST 3680)**

4 credits. Next offered 2010–2011.  
P. Hyams.]

#### **[HIST 4160 Gender and Sex in Southeast Asia (also ASIAN 4416, FGSS 4160)**

Fall. 4 credits. Next offered 2011–2012.  
T. Loos.]

#### **[THETR 4200/6200 Parody (also FGSS 4270/6370)**

Spring. 4 credits. Next offered 2010–2011.  
N. Salvato.]

#### **[THETR 6050 Camp, Kitsch, and Trash (also FGSS 6050)**

Fall. 4 credits. Next offered 2010–2011.  
N. Salvato.]

#### **[THETR 6060 Passionate Politics: Affect, Protest, Performance (also FGSS 6040)**

Spring. 4 credits. Next offered 2010–2011.  
S. Warner.]

## LINGUISTICS

[ling.cornell.edu](http://ling.cornell.edu)

J. Whitman, chair (209 Morrill Hall); M. Weiss, director of graduate studies (218 Morrill Hall); W. Harbert, director of undergraduate studies (210 Morrill Hall); D. Abusch, J. Bowers, W. Browne, A. Cohn, M. Diesing, J. Hale, S. Hertz, A. Nussbaum, M. Rooth, C. Rosen, M. Wagner, D. Zec. Visiting: S. Khan.

Linguistics, the systematic study of human language, lies at the crossroads of the humanities and the social sciences, and much of its appeal derives from the special combination of intuition and rigor that the analysis of language demands. The interests of the members of the Department of Linguistics and linguistic colleagues in other departments span most of the major subfields of linguistics: phonetics and phonology, the study of speech sounds; syntax, the study of how words are combined; semantics, the study of meaning; historical linguistics, the study of language change over time; and sociolinguistics, the study of language's role in social and cultural interactions.

Studying linguistics is not a matter of studying many languages. Linguistics is a theoretical discipline with ties to such areas as cognitive psychology, philosophy, logic, computer science, and anthropology. Nonetheless, knowing particular languages (e.g., Spanish or Japanese) in some depth can enhance understanding of the general properties of human language. Not surprisingly, then, many students of linguistics owe their initial interest to a period of exposure to a foreign language, and those who come to linguistics by some other route find their knowledge about languages enriched and are often stimulated to embark on further foreign language study.

Students interested in learning more about linguistics and its relationship to other disciplines in the humanities and social sciences are encouraged to take LING 1101, a general overview, which is a prerequisite for most other courses in the field, or one of the first-year writing seminars offered in linguistics (on topics such as metaphor and the science of language). LING 1101 and other introductory courses fulfill the social science distribution requirement. Most 1100- and 2200-level courses have no prerequisites and cover various topics in linguistics (e.g., LING 1170 Introduction to Cognitive Science; LING 2285 Linguistic Theory and Poetic Structure) or focus on the linguistics of a particular geographic region or historical development of particular languages (e.g., LING 2217 History of the English Language to 1300; LING 2241 Yiddish Linguistics). Some of these courses also fulfill the breadth requirements.

Talks and discussions about linguistics are offered through the Undergraduate Linguistics Forum and the Linguistics Colloquium (sponsored by the department and the Cornell Linguistic Circle). These meetings are open to the university public and anyone wishing to learn more about linguistics is most welcome to attend.

## The Major

For questions regarding the linguistics major, contact Professor Wayne Harbert (210 Morrill Hall, 255-8441, weh2@cornell.edu).

The prerequisite for a major in linguistics is the completion of LING 1101 and either LING 3301, 3302, 3303, or 3304. The major has its own language requirement, different from that of the College of Arts and Sciences, which should be completed as early as possible: majors must complete the equivalent of two semesters of college-level study of a language that is either non-European or non-Indo-European (language study undertaken to satisfy the college requirement can also count toward the major requirement if the language meets these conditions). With approval of the department's director of undergraduate studies, this requirement may be waived for students taking the cognitive studies concentration or a double major. The minimum acceptable grade in courses counted toward the major is C.

The other standard requirements for the linguistics major are as follows:

1. LING 3301 Introduction to Phonetics, LING 3302 Introduction to Phonology, LING 3303 Introduction to Syntax, and LING 3304 Introduction to Semantics and Pragmatics (one of which will already have been taken as a prerequisite to the major).
2. LING 3314 Historical Linguistics.
3. Three additional courses in linguistics at the 3300 or 4400 level, of which two must be general linguistics.
4. A course at or beyond the 3300 level in the structure of a language, or LING 3300 Field Methods for Undergraduates or LING 4400 Language Typology.

Some substitutions to these standard requirements are possible after consultation with your advisor and approval by the DUS.

## Honors

Applications for honors should be made during the junior year or by the start of fall semester of the senior year. For further information, please contact the DUS. Candidates for admission must have a 3.0 (B) average overall and should have a 3.5 average in linguistics courses. In addition to the regular requirements of the major, the candidate for honors will complete an honors thesis and take a final oral exam in defense of it. The thesis is usually written during the senior year but may be started in the second semester of the junior year when the student's program so warrants. The oral exam will be conducted by the honors committee, consisting of the thesis advisor and at least one other faculty member in linguistics. Members of other departments may serve as additional members if the topic makes this advisable. LING 4493 and 4494 may be taken in conjunction with thesis research and writing but are not required.

## First-Year Writing Seminars

For descriptions, consult the John S. Knight brochure for times, instructors, and descriptions.

## Courses

### LING 1101 Introduction to Linguistics (KCM-AS)

Fall or spring. 4 credits each semester. Fall, R. Katzir; spring, J. Hale.

Overview of the science of language, especially its theoretical underpinnings, methods, and major findings. Areas covered include: the relation between sound and meaning in human languages, social variation in language, language change over time, universals of language, and the mental representation of linguistic knowledge. Students are introduced to a wide variety of language phenomena, drawn not only from languages resembling English, but also from many that appear to be quite unlike English, such as those native to the Americas, Africa, Asia, Australia, and the South Pacific.

### LING 1109 English Words: Histories and Mysteries (also CLASS 1699) # (HA-AS)

Spring. 3 credits. W. Harbert.

Where do the words we use come from? This course examines the history and structure of the English vocabulary from its distant Indo-European roots to the latest in technical jargon and slang. Topics include formal and semantic change, taboo and euphemism, borrowing, new words from old, "learned" English loans from Greek and Latin, slang, and society.

### LING 1111 American Sign Language I

Summer only. 4 credits. T. Galloway.

Students with no previous background in American Sign Language (ASL) are introduced to the nature of a signed language and develop expressive and receptive skills in ASL. Basic grammar and vocabulary are covered, including explanations of the fundamental parts of a sign, proper use of fingerspelling, and the significance of nonmanual features. Instruction is supplemented with videotexts allowing students to begin to explore the visual literature of the Deaf community in the United States—stories, poems, and jokes that are unique to Deaf culture. Readings and class discussions acquaint students with the causes of deafness, the historical development of ASL and its linguistic status, and characteristics of deaf education both throughout history and in the present day.

### LING 1112 American Sign Language II

Summer only. 4 credits. Prerequisite: LING 1111 or permission of instructor. T. Galloway.

In this intermediate course, students continue to develop expressive and receptive fluency in ASL. Focus is on greater descriptive skill, developing intermediate-level narratives, and enhancing conversational ability. Advanced grammar and vocabulary is supplemented with further instruction in the linguistic structure of ASL. Readings, class discussions, and videotexts containing samples of the visual literature of the U.S. Deaf community continues students' investigation into American Deaf history and the shaping of modern Deaf culture.

### LING 1131-1132 Elementary Sanskrit (also CLASS 1331-1332, SANSK 1131-1132)

1131, fall; 1132, spring. 4 credits each semester. Fall, A. Nussbaum; spring, A. Ruppel.

For description, see SANSK 1131-1132.

### LING 1170 Introduction to Cognitive Science (also COGST 1101, CS 1710, PHIL 1910, PSYCH 1102) (KCM-AS)

Fall, summer. 3 credits. Staff. For description, see COGST 1101.

### LING 2215 Psychology of Language (also COGST/PSYCH 2150) (KCM-AS)

Spring. 3 credits. M. Christiansen. For description, see PSYCH 2150.

### LING 2217 History of the English Language to 1300 (also ENGL 2170) # (HA-AS)

Fall. 4 credits. W. Harbert. Explores the development of the English language from its Indo-European beginnings through the period of Early Middle English. Topics include linguistic reconstruction, changes in sound, vocabulary and grammatical structure, external influences, and Old and Early Middle English language and literature. This course forms a sequence with LING 2218, but the two may be taken independently.

### LING 2218 History of the English Language since 1300 (also ENGL 2180) (HA-AS)

Spring. 4 credits. W. Harbert. Traces English from Chaucer to the present, including the development of standard English and dialects, and the rise of English as a world language.

### LING 2236 Introduction to Gaelic

Spring. 3 credits. W. Harbert. Introduction to the Scottish Gaelic language, with some discussion of its history, structure, and current status.

### [LING 2238 Introduction to Welsh

Fall. 3 credits. Next offered 2010-2011. W. Harbert. Introduction to the Welsh language, with discussion of its history, structure, and current status, and a brief introduction to Welsh literature.]

### [LING 2241 Yiddish Linguistics (also JWST 2271) (SBA-AS)

Spring. 3 credits. No previous knowledge of Yiddish required. Next offered 2010-2011. M. Diesing. Yiddish language and linguistics, including aspects of its morphology, syntax, and phonology. Also the history of the Yiddish language, and sociolinguistic topics such as Yiddish as a minority language, and the influence of Yiddish on American English.]

### [LING 2244 Language and Gender (also FGSS 2440) (SBA-AS)

Spring. 4 credits. For nonmajors or majors. Next offered 2010-2011. S. McConnell-Ginet. Explores connections between language (use) and gender/sex systems. Readings draw from work in linguistics, anthropology, philosophy, psychology, literature, and women's studies and feminist theory.]

### [LING 2246/5546 Minority Languages and Linguistics (SBA-AS)

Fall. 4 credits. Graduate students register under LING 5546. Next offered 2011-2012. W. Harbert. Examines minority languages from linguistic, social, and political perspectives, including such issues as language death, language maintenance, bilingualism, language policy, and language rights.]

**LING 2251-2252 Intermediate Sanskrit (also CLASS 2351-2352, SANSK 2251-2252) @ #**

2251, fall; 2252, spring. 3 credits each semester. *Satisfies Option 1.* Fall: L. McCrea; spring: A. Ruppel. For description, see SANSK 2251-2252.

**[LING 2261/6661 Introduction to Indo-European Linguistics (HA-AS)]**

Fall. 4 credits. Graduate students register under LING 6661. Next offered 2010-2011. M. Weiss.

An introduction to the phonology, morphology, and syntax of Proto-Indo-European and the chief historical developments of the daughter languages.]

**LING 2285/5585 Linguistic Theory and Poetic Structure (also ENGL 2960/5850) (LA-AS)**

Spring. 4 credits. Graduate students register under LING 5585. J. Bowers. The aim of this course is to show how certain results of modern linguistics can usefully be applied to the analysis and interpretation of poetry.

**[LING 3300 Field Methods for Undergraduates (KCM-AS)]**

Spring. 4 credits. Prerequisite: students should normally have completed (or be concurrently enrolled in) LING 3301, 3302, 3303, 3304. Next offered 2010-2011. W. Harbert.

A hands-on course in which students gain experience in eliciting linguistic data from a native speaker of an unfamiliar language, organizing and analyzing those data and producing descriptions of the lexicon, phonetics, phonology, morphology, syntax, and texts in the language on the basis of them.]

**LING 3301 Introduction to Phonetics (KCM-AS)**

Fall. 4 credits. Prerequisite: LING 1101 or permission of instructor. S. Khan.

Introduction to the study of the physical properties of human speech sounds, including production, acoustics, and perception of speech. Provides in-depth exposure to the breadth of sounds found across human languages. Students achieve a high level of skill in phonetic transcription and some practice in reading spectrograms. An introduction to speech synthesis and automatic speech recognition is also provided. A small course project to discover the phonemes of an unknown language is undertaken.

**LING 3302 Introduction to Phonology (KCM-AS)**

Spring. 4 credits. Prerequisite: LING 1101 or permission of instructor. A. Cohn.

Introduction to phonology, which studies the patterning of speech sounds in human language. Emphasis is on formal devices, such as rules and representations, that capture the internal organization of speech sounds as well as their grouping into larger units, syllables, and feet.

**LING 3303 Introduction to Syntax (KCM-AS)**

Fall. 4 credits. Prerequisite: LING 1101 or permission of instructor. J. Bowers.

Introduction to syntax, which studies how words are combined to form phrases and sentences. The course aims to give students the ability to address questions regarding the syntactic properties that are shared by natural languages (as well as those that distinguish

them) in a precise and informed way. Topics include those that lie at the heart of theoretical syntax: phrase structure, transformations, grammatical relations, and anaphora. Emphasis throughout the course is placed on forming and testing hypotheses.

**LING 3304 Introduction to Semantics and Pragmatics (KCM-AS)**

Spring. 4 credits. Prerequisite: LING 3303 or permission of instructor. M. Diesing.

Examines the two major components of sentence meaning: (1) how sentences mean what they mean and (2) how they can be used to communicate more than what they (literally) mean. Investigates precise ways of describing the possible interpretations of a sentence and the relationship between meaning and syntactic structure. Topics include the representation of lexical meaning, the meaning of quantifier phrases and analyses of scope ambiguities, and classic puzzles of reference. Also examines possible applications of the theory to linguistically interesting legal cases (torts and criminal law), slips of the tongue, acquisition studies, language disorders, and connections with the philosophy of language.

**LING 3308 Readings in Celtic Languages**

Fall or spring, depending on demand.

1 credit. Prerequisite: permission of instructor. S-U grades only. W. Harbert. Reading/discussion groups in Welsh or Scottish Gaelic.

**LING 3314 Introduction to Historical Linguistics # (HA-AS)**

Spring. 4 credits. Prerequisite: LING 3301 or permission of instructor. M. Weiss.

Survey of the basic mechanisms of linguistic change, with examples from a variety of languages.

**LING 3315-3316 Old Norse**

3315, fall; 3316, spring. 4 credits each semester. L. Heimsdóttir.

Old Norse is a collective term for the earliest North Germanic literary languages: Old Icelandic, Old Norwegian, Old Danish, and Old Swedish. The richly documented Old Icelandic is the center of attention, and the purpose is twofold: the students gain knowledge of an ancient North Germanic language, important from a linguistic point of view, and gain access to the medieval Icelandic (and Scandinavian) literature. 3315: The structure of Old Norse (Old Icelandic), phonology, and morphology, with reading of selections from the Prose-Edda, a 13th-century narrative based on the Eddaic poetry. 3316: Extensive reading of Old Norse texts, among them selections from some of the major Icelandic family sagas: Njals saga, Grettis saga, and Egils saga, as well as the whole Hrafnkels saga.

**LING 3321-[3322] History of the Romance Languages (also ROMS 3210-3220) # (HA-AS)**

3321, spring; [3322], 4 credits each semester. Prerequisites: for LING 3321, LING 1101, or equivalent and qualification in any Romance language; for LING 3322, LING 3321, or permission of instructor. C. Rosen.

3321 covers popular Latin speech, early documentary sources, Pan-Romance phonological changes, regional divergence, early external history, and non-Latin influences. [3322 covers the shaping of Romance morphological systems, changes in the lexicon, medieval diglossia, and the

emergence of Romance standards. 3321 and 3322 both include selected readings in the earliest Romance texts.]

**LING 3333 Problems in Semantics (also COGST 3330, PHIL 3700) (KCM-AS)**

Fall. 4 credits. Prerequisite: logic or semantics course or permission of instructor. D. Abusch.

Looks at problems in the semantic analysis of natural languages, critically examining work in linguistics and philosophy on particular topics of current interest.

**[LING 3347 Topics in the History of English (HA-AS)]**

Fall. 4 credits. Prerequisite: LING 2217, 3314, course in Old or Middle English, or permission of instructor. Next offered 2010-2011. W. Harbert.

Treats specific topics in the linguistic history of the English language, selected on the basis of the particular interests of the students and the instructor.]

**LING 3390 Independent Study in Linguistics**

Fall or spring. 1-4 credits, variable.

Prerequisite: LING 1101 and permission of instructor. Staff.

Independent study of linguistics topics not covered in regular curriculum for undergrads.

**[LING 4310 Topics in Cognitive Studies (also COGST/BIONB/PSYCH 4310)]**

Fall. 4 credits. Next offered 2010-2011. S. Edelman.

For description, see COGST 4310.]

**[LING 4400 Language Typology (KCM-AS)]**

Spring. 4 credits. Prerequisite: LING 1101.

Next offered 2010-2011. J. Whitman.

Studies a basic question of contemporary linguistics: in what ways do languages differ, and in what ways are they all alike? Efforts are made to formalize universals of syntax and to characterize the total repertory of constructions available to natural languages. Common morphological devices and their syntactic correlates are covered. Emphasis is on systems of case, agreement, and voice.]

**LING 4401-4402 Phonology I, II (KCM-AS)**

4401, fall; 4402, spring. 4 credits each semester. Prerequisites: for LING 4401, LING 3302 or equivalent; for LING 4402, LING 4401 or permission of instructor.

Fall, D. Zec; spring, A. Cohn.

4401 provides a basic introduction to phonological theory. The first half of the course focuses on basic principles of phonology, patterns of sounds, and their representations. In the second half, the nature of syllable structure and feature representations are explored. 4402 provides further refinement of the issues investigated in 4401, focusing in particular on metrical theory, lexical phonology, autosegmental phonology, and prosodic morphology.

**LING 4403-4404 Syntax I, II (KCM-AS)**

4403, fall; 4404, spring. 4 credits each semester. Prerequisites: for LING 4403, LING 3303; for LING 4404, LING 4403 or permission of instructor. Fall, R. Katzir; spring, M. Diesing.

4403 is an advanced introduction to syntactic theory within the principles and parameters/minimalist frameworks. Topics include phrase structure, argument structure (unaccusative verbs, unergative verbs, double object constructions), principles of word order, and

the binding theory. 4404 is a continuation of 4403, focusing on syntactic dependencies, including the theory of control, an examination of locality constraints on movement, covert versus overt movement, and the syntax of quantification. The purpose of the course is to develop the background needed for independent syntactic research.

**[LING 4405 Sociolinguistics (CA-AS)]**

Fall. 4 credits. Prerequisite: LING 1101 or another linguistics course or permission of instructor. Next offered 2010–2011. Staff. This course surveys some of the different issues, theories, concepts, and methods in sociolinguistics, the study of the interaction of language with society.]

**[LING 4409 Structure of Italian (KCM-AS)]**

Spring. 4 credits. Prerequisites: LING 1101 and qualification in any Romance language. Next offered 2010–2011. C. Rosen.]

**[LING 4411 History of the Japanese Language (also ASIAN 4411, JAPAN 4410) @ # (HA-AS)]**

Fall. 4 credits. Prerequisite: reading knowledge of Japanese. J. Whitman. Overview of the history of the Japanese language followed by intensive examination of issues of interest to the participants. Students should have a reading knowledge of Japanese.

**[LING 4412 Linguistic Structure of Japanese (also ASIAN 4412) (KCM-AS)]**

Spring. 4 credits. Prerequisites: JAPAN 1102 or permission of instructor and LING 1101. Next offered 2010–2011. J. Whitman.

Introduction to the linguistic study of Japanese, with an emphasis on morphology and syntax.]

**[LING 4417 History of the Russian Language (also RUSSA 4401) (HA-AS)]**

Spring. 4 credits. Prerequisite: permission of instructor. W. Browne. Phonological, morphological, and syntactic developments from Old Russian to modern Russian.

**[LING 4419 Phonetics I (KCM-AS)]**

Fall. 4 credits. Prerequisite: LING 3301 or permission of instructor. S. Khan. Provides a basic introduction to the study of phonetics. Topics include anatomy and physiology of the speech production apparatus, transcription and production of some of the world's sounds, basic acoustics, computerized methods of speech analysis, acoustic characteristics of sounds, speech perception, speech synthesis, and stress and intonation.

**[LING 4420 Phonetics II (KCM-AS)]**

Spring. 4 credits. Prerequisite: LING 4419. Next offered 2010–2011. Staff. Continuation of Phonetics I, providing a more detailed survey of some areas in acoustic and articulatory phonetics. Topics include feature theory, vocal tract acoustics, quantal theory, speaker normalization, theories of speech perception, coarticulation, theories of speech production, and prosody. In addition, a number of "hands-on" projects are part of the course.]

**[LING 4421 Semantics I (KCM-AS)]**

Fall. 4 credits. Prerequisite: LING 3304. D. Abusch. Introduces methods for theorizing about meaning within generative grammar. These techniques allow the creation of grammars that

pair syntactic structures with meanings. Students look at several empirical areas in detail, among them complementation (combining heads with their arguments), modification, conjunction, definite descriptions, relative clauses, traces, bound pronouns, and quantification. An introduction to logical and mathematical concepts used in linguistic semantics (e.g., set theory, functions and their types, and the lambda notation for naming linguistic meanings) is included in the course.

**[LING 4422 Semantics II (KCM-AS)]**

Spring 4 credits. Prerequisite: LING 4421 or permission of instructor. R. Katzir. Uses the techniques introduced in Semantics I to analyze linguistic phenomena, including quantifier scope, ellipsis, and referential pronouns. Temporal and possible worlds semantics are introduced and used in the analysis of modality, tense, and belief sentences. The phenomena of presupposition, indefinite descriptions, and anaphora are analyzed in a dynamic compositional framework that formalizes the idea that sentence meaning effects a change in an information state.

**[LING 4423 Morphology (KCM-AS)]**

Fall. 4 credits. Prerequisite: LING 1101 or permission of instructor. M. Diesing. Addresses the basic issues in the study of words and their structures. Provides an introduction to different types of morphological structures with examples from a wide range of languages. Special emphasis is given to current theoretical approaches to morphological theory and to computational models of morphology.

**[LING 4424 Computational Linguistics (also COGST 4240, CS 3740) (MQR)]**

Fall. 4 credits. Recommended: previous course work in linguistics or programming. J. Hale.

Introduces methods for doing a language computationally, including parsing and representation of syntactic analyses; computational morphology; probabilistic grammars; feature constraint formalisms for syntax; treebank methodology.

**[LING 4425 Pragmatics (also PHIL 4720) (KCM-AS)]**

Fall. 4 credits. Prerequisite: LING 3304 or PHIL 2310, or permission of instructor. Next offered 2010–2011. D. Abusch.

Introduction to aspects of linguistic meaning that have to do with context and with the use of language. Topics include context change semantics and pragmatics, presupposition and accommodation, conversational implicature, speech acts, and the pragmatics of definite descriptions and quantifiers.]

**[LING 4427 Structure of Hungarian (also HUNGR 4427) (KCM-AS)]**

Fall. 4 credits. Prerequisite: LING 1101. Next offered 2010–2011. W. Browne.]

**[LING 4428/6628 Connectionist Psycholinguistics (also COGST 4280, PSYCH 4280/6280)]**

Fall. 3 credits. Next offered 2010–2011. M. Christiansen.

For description, see PSYCH 4280.]

**[LING 4430 Structure of Korean (also ASIAN/KOREA 4430) (KCM-AS)]**

Spring. 4 credits. Prerequisite: KOREA 1102 or linguistics course. No previous knowledge of Korean required. Next offered 2010–2011. J. Whitman.

Intensive examination of the syntax and phonology of a non-Indo-European language with the objective of testing principles of current linguistic theory.]

**[LING 4432 Middle Korean (also KRLIT 4432) @ # (LA-AS)]**

Spring. 4 credits. Offered alternate years. Prerequisite: KOREA 2202 or equivalent. Next offered 2011–2012. J. Whitman. Introduction to the premodern Korean language. Focuses on the earliest *hangeul* texts of the 15th century, but also introduces materials written in Korean using Chinese characters before the 15th century, including *hyangga*. No previous background in linguistics is required, but students should have a command of written Korean of at least the third-year level.]

**[LING 4433 The Lesser-Known Romance Languages (also ROMS 4330) (KCM-AS)]**

Spring. 4 credits. Prerequisites: LING 1101 and qualification in any Romance language. Next offered 2010–2011. C. Rosen. Surveys several Romance languages/dialects, examining sound systems, grammars, and historical evolution from Latin. Readings represent both the modern languages and their earliest attested stages.]

**[LING 4436 Language Development (also COGST/HD/PSYCH 4360) (KCM-AS)]**

Fall. 4 credits. Next offered 2010–2011. B. Lust.

For description, see COGST 3370.]

**[LING 4441 Introduction to Germanic Linguistics (also GERST 4410) (HA-AS)]**

Spring. 4 credits. Prerequisite: LING 1101 or permission of instructor. Next offered 2011–2012. W. Harbert. Survey of major issues in historical Germanic linguistics.]

**[LING 4443 Linguistic Structure of Russian (also RUSSA 4403) (KCM-AS)]**

Fall. 4 credits. Prerequisites: reading knowledge of Russian. Next offered 2010–2011. W. Browne.

A synchronic analysis of the structure of modern Russian. This course deals primarily with phonology and its relation to morphology.]

**[LING 4450 Lab Course: Language Development (also COGST 4500, HD/PSYCH 4370)]**

Fall. 2 credits. Next offered 2010–2011. B. Lust.

For description, see COGST 4500.]

**[LING 4451 Greek Comparative Grammar (also GREEK 4411) (KCM-AS)]**

Fall. 4 credits. Next offered 2010–2011. A. Nussbaum.

For description, see GREEK 4411.]

**[LING 4452 Latin Comparative Grammar (also LATIN 4452) (KCM-AS)]**

Fall. 4 credits. Next offered 2010–2011. A. Nussbaum.

For description, see LATIN 4452.]

**[LING 4453 Structure of Latin (also LATIN/ROMS 4453) # (KCM-AS)]**

Fall. 4 credits. Prerequisite: a basic knowledge of Latin forms and constructions or some previous work in Romance and/or general linguistics. Next offered 2010–2011. A. Nussbaum.

An analysis of the phonology, morphology, and syntax of Latin from a synchronic point of view. The course is intended for a twofold audience—students of Latin interested in a linguist's-eye view of the facts and students of general and/or Romance linguistics interested in what Latin data might have to offer for historical and general linguistic purposes.]

**LING 4455 Greek Dialects (also GREEK 4455) (KCM-AS)**

Fall. 4 credits. A. Nussbaum.  
For description, see GREEK 4455.

**LING 4456 Archaic Latin (also LATIN 4456) (LA-AS)**

Spring. 4 credits. M. Weiss.  
For description, see LATIN 4456.

**[LING 4457 Homeric Philology (also GREEK 4457) # (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012.  
A. Nussbaum.  
For description, see GREEK 4457.]

**[LING 4459 Mycenaean Greek (also GREEK 4459) (LA-AS)]**

Spring. 4 credits. Next offered 2011–2012.  
A. Nussbaum.  
For description, see GREEK 4459.]

**[LING 4460 Sanskrit Comparative Grammar (also CLASS 4490) (KCM-AS)]**

Fall. 4 credits. Prerequisite: reasonable familiarity with classical Sanskrit morphology. Next offered 2010–2011.  
A. Nussbaum.

Survey of the historical phonology and morphology of Sanskrit in relation to the Indo-Iranian and Indo-European comparative evidence.]

**LING 4474 Introduction to Natural Language Processing (also COGST/CS 4740)**

Spring. 4 credits. C. Cardie.  
For description, see CS 4740.

**LING 4476 Statistics for Linguists**

Spring. 4 credits. J. Hale.  
Introduces distributions, sampling, and hypothesis testing as tools for linguistic research. Students learn to use appropriate software, and as time permits, craft predictive theories using probabilistic grammars and linear models. Only high math presupposed.

**LING 4485 Topics in Computational Linguistics (MQR)**

Fall. 4 credits. M. Rooth and D. Zec.  
Computational modeling of phonology. Emphasizes finite state formalisms that make it possible to explicitly construct optimality theoretic phonology, including constructs such as harmony orders and constraint families, and to compute with large or even infinite candidate sets. Accessible both to students with background in phonology and those with computational preparation.

**LING 4493 Honors Thesis Research**

Fall. 4 credits. Staff.  
May be taken before or after LING 4494, or may be taken independently.

**LING 4494 Honors Thesis Research**

Spring. 4 credits. Staff.  
May be taken as a continuation of, or before, LING 4493.

**LING 6600 Field Methods**

Spring. 4 credits. Prerequisites: LING 4401, 3301, or 3302 and 4403 or 3303, or permission of instructor. J. Whitman.

Elicitation, recording, and analysis of data from a native speaker of a non-Western language not generally known to students.

**[LING 6601 Topics in Phonological Theory]**

Spring. 4 credits, variable. Prerequisites: LING 4401 and one higher-level phonology course. Next offered 2010–2011. Staff.  
Selected topics in current phonological theory.]

**LING 6602 Topics in Morphology**

Spring. 4 credits. Prerequisites: LING 4401 or 4403 or permission of instructor.  
J. Bowers.

Selected topics in current morphological theory.

**LING 6604 Research Workshop**

Fall. 2 credits. Requirement for third-year linguistics graduate students. S–U grades only. W. Harbert.

Provides a forum for presentation and discussion of ongoing research, and development of professional skills. Participants must enroll in a concurrent independent study with a special committee member, or a relevant workshop.

**LING 6606 Historical Syntax**

Fall. 4 credits. Prerequisite: LING 4403.  
J. Whitman.

**LING 6615 Topics in Semantics**

Fall. 4 credits. Prerequisite: LING 4421 or permission of instructor. M. Rooth.  
Selected topics in semantic theory, focusing on recent literature.

**LING 6616 Topics in Syntactic Theory**

Fall. 4 credits, variable. Prerequisite: LING 4404 or permission of instructor.  
M. Diesing.

Examination of recent developments in syntactic theory, including “minimalist” approaches to phrase structure, derivations/representations and the nature of economy conditions, and parametric differences.

**[LING 6617–6618 Hittite]**

6617, fall; 6618, spring. 4 credits each semester. Prerequisites: for LING 6617, permission of instructor; for LING 6618, LING 6617 or permission of instructor.  
Next offered 2010–2011. M. Weiss.

Introduction to the cuneiform writing system and the grammar of Hittite, followed by the reading of selected texts.]

**[LING 6619 Rigveda]**

Fall. 4 credits. Prerequisite: permission of instructor. Next offered 2011–2012. Staff.]

**[LING 6621 Avestan and Old Persian]**

Fall. 4 credits. Prerequisite: basic knowledge of Sanskrit forms and morphology syntax. Next offered 2010–2011. M. Weiss.  
Linguistically oriented readings of Old Persian and Avestan.]

**[LING 6623–6624 Old Irish I, II]**

6623, fall; 6624, spring. 4 credits each semester. Prerequisite: for LING 6624, LING 6623 or permission of instructor. Next offered 2010–2011. M. Weiss.]

**[LING 6625 Middle Welsh]**

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2011–2012.  
W. Harbert.

Students develop a reading knowledge of Middle Welsh through translating selections from prose and poetry. No familiarity with Welsh is assumed.]

**LING 6633 Language Acquisition Seminar (also COGST/HD 6330)**

Fall. 1–4 credits. Prerequisite: LING 4436 or equivalent or permission of instructor.  
B. Lust.

This seminar reviews and critiques current theoretical and experimental studies of first language acquisition, with a concentration on insights gained by cross-linguistic study of this area. Attention is also given to the development of research proposals.

**LING 6634 Seminar in Philosophy of Language (also PHIL 6710)**

Fall. 4 credits. M. Eklund.  
For description, see PHIL 6710.

**[LING 6635–6636 Indo-European Workshop]**

6635, fall; 6636, spring. 4 credits each semester. Prerequisite: permission of instructor. Next offered 2010–2011.  
M. Weiss.

An assortment of subjects intended for students with previous training in Indo-European linguistics.]

**[LING 6637 Introduction to Tocharian]**

Fall. 4 credits. Prerequisite: knowledge of other ancient IE language and historical linguistics methods. Next offered 2010–2011. M. Weiss.  
Introduction to the grammar of Tocharian A and B.]

**LING 6645 Gothic**

Fall. 4 credits. Prerequisite: LING 1101.  
Offered every three years. W. Harbert.  
Linguistic structure of Gothic, with extensive readings of Gothic texts.

**[LING 6646 Old High German, Old Saxon (also GERST 6580)]**

Spring. 4 credits. Prerequisite: LING 1101.  
Highly recommended: reading knowledge of Modern German. Offered every three years; next offered 2010–2011. W. Harbert.  
Combines a survey of the linguistic history and structure of Old High German and Old Saxon with extensive readings from the major documents in which they are recorded.]

**[LING 6648 Speech Synthesis (also INFO 6648)]**

Spring. 4 credits. Prerequisite: LING 4401, 4419, or permission of instructor. Offered alternate years; next offered 2010–2011.  
S. Hertz.

Investigates the nature of the acoustic structure of speech synthesis. The course may also be of interest to students in psychology, computer science, and cognitive science.]

**[LING 6649 Structure of Old English (also ENGL 6170)]**

Fall. 4 credits. Prerequisite: LING 4441.  
Offered every three years. Next offered 2010–2011. W. Harbert.  
Linguistic overview of Old English, with emphasis on phonology, morphology, and syntax.]

**[LING 6659 Seminar in Vedic Philology (also ASIAN 6659, CLASS 7459)]**

Fall. 4 credits. Prerequisite: two years of Sanskrit or permission of instructor. Next offered 2010–2011. M. Weiss.

A seminar for intensive reading of Vedic texts, primarily the Rig Veda. Attention will be given to the study of Vedic ritual and mythology, and to the later commentarial and performance traditions. Students will be familiarized with the various methods, primarily philological, necessary for the competent reading of Vedic texts.]

**[LING 6662 Old Russian Texts (also RUSSA 6602)]**

Spring. 4 credits. Prerequisite: LING 6663. Next offered 2010–2011. W. Browne.

Grammatical analysis and close reading of Old Russian texts.]

**[LING 6663 Old Church Slavonic (also RUSSA 6601)]**

Fall. 4 credits. Prerequisite: knowledge of Slavic or ancient Indo-European language. Prerequisite to LING 6662 and 6671. Next offered 2010–2011. W. Browne.

Grammar and reading of basic texts.]

**[LING 6671 Comparative Slavic Linguistics (also RUSSA 6651)]**

Fall. 4 credits. Prerequisites: LING 6663 taken previously or simultaneously, or permission of instructor. Offered alternate years. Next offered 2010–2011. W. Browne.

Sounds and forms of the Slavic languages and of prehistoric common Slavic; main historical developments leading to the modern languages.]

**LING 7701-7702 Directed Research**

7701, fall; 7702, spring. 1–4 credits. Times TBA. Staff.

**LING 7710-7720 Seminar**

Fall or spring. Credit TBA.

Seminars are offered according to faculty interest and student demand. Recent topics include: semantics; computational linguistics; language acquisition; and the nature of the interfaces between phonetics, phonology, and syntax.

**MATHEMATICS**

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L. Saloff-Coste, chair; A. Back, D. Barbasch, Y. Berest, L. Billera, K. Brown, X. Cao, R. Connelly, R. K. Dennis, R. Durrett, E. Dynkin, A. Frohmader, L. Gross, J. Guckenheimer, A. Hatcher, D. Henderson, T. Holm, J. Hubbard, M. Huntley, J. Hwang, Y. Ilyashenko, P. Kahn, M. Kassabov, B. Khoushainov, A. Knutson, T. Matsamura, G. Michler, F. Moore, J. Moore, C. Muscalu, A. Nerode, E. Nevo, M. Nussbaum, I. Peeva, R. Ramakrishna, T. Riley, A. Schatz, S. Sen, R. A. Shore, R. Sjamaar (DGS), J. Smillie, B. Speh, M. E. Stillman, R. Strichartz, E. Swartz, M. Terrell, R. Terrell, W. Thurston, R. Vale, A. Vladimirovsky, K. Vogtmann, L. Wahlbin (DUS), J. West. Emeritus: J. Bramble, S. Chase, M. Cohen, C. Earle, R. Farrell, H. Kesten, G. R. Livesay, M. Morley, L. E. Payne, M. Sweedler

Mathematics is the language of modern science; basic training in the discipline is essential for those who want to understand, as well as for those who want to take part in, the important scientific developments of our time.

Acquaintance with mathematics is also extremely useful for students in the social sciences and valuable for anyone interested in the full range of human culture and the ways of knowing the universe in which we live.

The Department of Mathematics faculty has strong groups specializing in algebra, number theory, combinatorics, real and complex analysis, Lie groups, topology and geometry, logic, probability and statistics, mathematical physics, and applied mathematics. Related departments at Cornell have specialists in computer science and operations research. Courses in these topics can be integrated readily into the mathematics major.

The department offers a rich variety of undergraduate courses, and many of its beginning graduate courses are suitable for advanced undergraduates as well. Under some conditions, a student may carry out an independent reading and research project for college credit under the supervision of a faculty member.

Members of the department are available to discuss with students the appropriate course for their levels of ability and interest, and students are urged to avail themselves of this help. Students who want to take any of the courses numbered 3000 or above are invited to confer with the instructor before enrolling.

**Course Numbering System**

The first digit of the course number indicates the level of the course: roughly, 1 and 2 indicate underclass courses; 3 and 4, upperclass courses; 5, professional-level and mathematics education courses; 6 and 7, graduate courses. Within the MATH subject area, the second digit often indicates the subject matter: 0, general; 1 and 2, analysis; 3 and 4, algebra and combinatorics; 5 and 6, topology and geometry; 7, probability and statistics; 8, logic; 9, other.

In the MATH subject area, conversion of course numbers from the old 3-digit system to the new 4-digit system was accomplished in most cases by adding a 0 as the 4th digit. Exceptions are as follows:

MATH 005 becomes 1005,  
MATH 006 becomes 1006,  
MATH 011 becomes 1011,  
MATH 012 becomes 1012,  
MATH 103 becomes 1300,  
MATH 105 becomes 1105,  
MATH 106 becomes 1106,  
MATH 109 becomes 1009.

**Advanced Placement**

Freshmen who have had some calculus should carefully read "Advanced Placement," p. 8. Those who have not taken an advanced placement exam should take a placement test at Cornell during fall orientation. For guidance in selecting an appropriate course, please consult *First Steps in Math*, published on the Mathematics Department web site (www.math.cornell.edu) under "Courses."

**The Major**

The mathematics major adapts to a number of purposes. It can emphasize the theoretical or the applied. It can be appropriate for professionals and nonprofessionals alike, and can be broad or narrow. It can also be combined easily with serious study in another subject in the physical, biological, or social

sciences by means of a double major and/or concentration. (See "Double Majors" below for more information.) Questions concerning the major should be brought to a member of the Mathematics Major Committee.

**Prerequisites**

Students are admitted to the major after successfully completing a semester of multivariable calculus and a semester of linear algebra. The department recommends either MATH 2210–2220 or 2230–2240 with grades of B– or better. Alternative prerequisites are MATH 1920 and 2940 with grades of B– or better or MATH 2130 and 2310 with grades of B+ or better. A 3- or 4-credit computer programming course with a grade of C– or better is also required for acceptance to the major. Eligible courses include: CS 1110, 1112, 1113, 1114, and 2110.

**Requirements**

Students must complete nine courses, as described in items 1–3 below, under the following constraints:

- At least two of the MATH courses taken must be at the 4000 level (or above). (Students graduating before May 2011 are exempt from this constraint.)
- A course may be counted toward the major only if it is taken for a letter grade and a grade of C– or better is received for the course.
- No course may be used to satisfy more than one requirement for the major.
- 2-credit courses count as half courses.
- 5000-level MATH courses do not count toward the major.

Major advisors may make adjustments to the major requirements upon request from an advisee, provided the intent of the requirements is met. In particular, many suitable graduate courses are not listed here.

1. Two courses in algebra. Eligible courses are: MATH 4310 or 4330; MATH 4320 or 4340; MATH 4370; MATH 4500; MATH 3320; MATH 3360.
2. Two courses in analysis. Eligible courses are: MATH 3110, 3210, 3230, 4130, 4140, 4180, 4200, 4220, 4240, 4250 (also CS 4210), 4260 (also CS 4220), 4280.
3. Five further high-level mathematical courses. *The seven alternatives (a–g) below do not exhaust the possibilities. A mathematics major interested in a concentration in a subject different from those below may develop a suitable individual program in consultation with his or her major advisor.*

**a. Concentration in Mathematics:**

- i. Four additional MATH courses numbered 3000 or above. For students graduating in May 2011 or later, at least one of the four courses must be among the following geometry/topology courses: MATH 3560, 4500, 4510, 4520, 4530, 4540, 4550.
- ii. One course dealing with mathematical models. Any course from outside mathematics with serious mathematical content and dealing with scientific matters. Serious mathematical content includes, but is not limited to,

- extensive use of calculus or linear algebra. Eligible courses include any course from another department that would satisfy one of the concentrations, as well as CS 2110, MATH 3840/PHIL 3300, MATH 4810/PHIL 4310, MATH 4820/PHIL 4311, MATH 4830/PHIL 4312, PHYS 1116, PHYS 2208, PHYS 2213, and PHYS 2217. Other 1000-level physics courses and PHYS 2207 may *not* be used, but some courses in other fields may be accepted.
- b. **Concentration in Computer Science:** Five additional courses from (iii) and (iv) below, of which at least one is from (iii) and three are from (iv).
    - iii. Mathematics courses numbered 3000 or above.
    - iv. Computer science courses with significant mathematical content. Eligible courses are: CS 3220, 3810, 4110, 4210 (also MATH 4250), 4220 (also MATH 4260), 4520, 4620, 4700, 4702, 4740, 4780, 4782, 4812, 4820, 4830, 4850, and 4860.
  - c. **Concentration in Economics:** Five additional courses from (v), (vi), and (vii) below, as follows: one course from (v), three courses from (vi), and a fifth course from any of (v), (vi), or (vii).
    - v. Mathematics courses numbered 3000 or above.
    - vi. Economics courses with significant mathematical content. Eligible courses are: ECON 3190/6190, 3200/6200, 3250, 3270, 3680, 4160, 4190, 4760/6760, 4770/6770, 6090, 6100, 6110, 6130, 6140, 7170, 7180, 7480, 7490, 7560. Only two of the econometrics courses (3200/6200, 3250, 3270, 7480, 7490) are allowed.
    - vii. Courses in operations research with significant mathematical content and dealing with material of interest in economics. Eligible courses are: ORIE 3300, 3310, 4320, 4350, 4600, 4710, 4740, 5600 and 5610.
  - d. **Concentration in Mathematical Biology:** Five additional courses from (viii) and (ix) below, with three courses from (viii) and two courses from (ix).
    - viii. Biology courses that have mathematical content or provide background necessary for work at the interface between biology and mathematics. Eligible courses are: BIOEE/MATH 3620, BIOEE 4600, BIONB 4220, BTRY 4080, 4090, 4820, 4830, 4840.
    - ix. Mathematics courses numbered above 3000. Particularly appropriate are MATH 4200 and 4710.
  - e. **Concentration in Mathematical Physics:** Five additional courses from (x) and (xi) below, of which at least one is from (x) and three are from (xi).

- x. Mathematics courses in analysis, geometry, algebra and combinatorics, probability and statistics, and mathematical logic. Eligible courses are: MATH 3110, 3210, 3230, 4010, 4130, 4140, 4200, 4180 or 4220, 4240, 4250 (also CS 4210), 426 (also CS 4220), 4280, 4310 or 4330, 4320 or 4340, 4370, 4410, 4420, 4500, 4510, 4520, 4530, 4540, 4550, 4710, 4720, 4810, 4820, 4830, 4860.
  - xi. Physics courses that make significant use of advanced mathematics. Eligible courses are: PHYS 3314, 3316, 3318, 3323, 3327, 3341, 4443, 4444, 4445, 4454, 4455, 4480, 4481.
- f. **Concentration in Operations Research:** Five additional courses from (xii) and (xiii) below, of which at least one is from (xii) and three are from (xiii).
    - xii. Mathematics courses numbered 3000 or above.
    - xiii. Courses in operations research in which the primary focus involves mathematical techniques. Eligible courses are: ORIE 3300, 3310, 3500, 3510, 4150, 4300, 4320, 4330, 4350, 4360, 4370, 4520, 4540, 4600, 4630, 4710, 4740, 4850, 5600, 5610, and 5640.
  - g. **Concentration in Statistics:** Five additional courses from (xiv), (xv), and (xvi) below, which include both from (xv) and at least two from (xvi). (MATH 1710 is also recommended for students who have not had experience with real-world data, although it will not count toward any of the math major requirements. It should be taken or audited before or concurrent with MATH 4710.)
    - xiv. Mathematics courses numbered 3000 or above.
    - xv. MATH 4710 and 4720.
    - xvi. Courses in other departments with significant content in probability and statistics, complementing (xiv). Eligible courses are: BTRY 3020, 4820, 6020, 6030, 6040; CS 4782; ORIE 3510, 4520, 4540, 4600, 4630, 4710 (half course), 4740, 5600, 5610; ILLST 3120, 4100, 4110; and ECON 3200.

**Double Majors**

A double major with computer science, economics, or physics can be facilitated by the corresponding concentrations described above. The Departments of Computer Science and Economics permit double majors to use courses in the corresponding concentrations to satisfy the requirements of both majors. The Physics Department also permits double counting, but only if the student completes the physics major with an inside concentration. Students should consult the appropriate departments for any further conditions.

**Senior Thesis**

A senior thesis can form a valuable part of a student's experience in the mathematics major. It is intended to allow students to conduct an in-depth investigation not possible in regular

course work. The work should be independent and creative. It can involve the solution of a serious mathematics problem, or it can be an expository work, or variants of these. Conducting independent research, paying careful attention to exposition in the finished written product, and the delivery of an optional oral presentation can have a lasting positive impact on a student's educational and professional future.

**Honors**

The Department of Mathematics awards honors (*cum laude*) and high honors (*magna cum laude* and *summa cum laude*) to graduating mathematics majors who have performed outstandingly in the major program.

The awards are determined by the Mathematics Major Committee in the latter part of the semester before graduation. The committee will primarily be looking for excellent performance in mathematics courses, particularly in challenging courses at the 4000 level or beyond. Participation in the honors seminar (MATH 4010) for one semester, or independent study at a high performance level can also contribute to honors. Students interested in any level of honors should consult their major advisors or a member of the Mathematics Major Committee concerning suitable courses. Outstanding performance in graduate classes or an excellent senior thesis can contribute to high honors.

**Teacher Education in Mathematics**

For information on the various possibilities for students considering teaching mathematics in schools, go to [www.math.cornell.edu/Undergraduate/Teaching](http://www.math.cornell.edu/Undergraduate/Teaching).

**Precalculus**

Students who need to take Calculus I (MATH 1106 or 1110) but are lacking the necessary prerequisites may take MATH 1000, MATH 1009, or BTRY 1150 to prepare. These courses do not carry credit toward graduation in the Arts College.

**Calculus Sequences**

Students should consult their advisors and keep major prerequisites in mind when planning a suitable program. The following are general recommendations.

1. Students who expect to major in mathematics or a science for which a strong math background is recommended, should take MATH 1110–1120 or MATH 1110–1220 and continue with MATH 2210–2220 or 2230–2240. (MATH 1910 may be substituted for MATH 1120.)
2. Students who have an aversion to mathematical theory might be happier with MATH 1910–1920–2930–2940, MATH 1110–1120–2130, or MATH 1110–2310.
3. MATH 1910–1920–2930–2940 is required for students in the engineering college and recommended by some advisors in fields strongly related to the mathematical and physical sciences, such as astronomy, computer science, physics, and physical chemistry.
4. MATH 1110–1120–2130 is a good choice for students who need to master the basic techniques of calculus but whose majors will not require a substantial amount of

mathematics, including chemistry and economics majors.

- MATH 1110-2310 is an option for students who need some linear algebra but not a full year of calculus.

*Switching between calculus sequences is often difficult, especially at the 2000 level. Students should not attempt such a switch without consulting the director of undergraduate studies.*

### Special-Purpose Sequences

Students who will take no more than two semesters of mathematics can gain a broader view of the subject by taking one semester of calculus and one non-calculus mathematics course. The following options are particularly useful for students in the life and social sciences and will satisfy the mathematics requirement for most medical schools.

- MATH 1105-1106 provides a one-year introduction to the mathematical topics that are most useful to biologists and social scientists. (MATH 1110 may be substituted for MATH 1106.)
- An introductory statistics course (MATH 1710, for example), taken before or after a semester of calculus (MATH 1106 or MATH 1110), teaches students how to work with data and can be more useful in some disciplines than a second semester of calculus.

Students who want two semesters of calculus are advised to take the first two semesters of one of the calculus sequences, but students with excellent performance in MATH 1106 may follow that course with MATH 1120 or 1220.

### Courses with Overlapping Content

Because the department offers many courses with overlapping content, students must choose their courses carefully to ensure that they will receive credit for each course they take. Listed below are groups of courses that have similar content. Students will receive credit for only one of the courses in each group.

MATH 1106, 1110  
 MATH 1120, 1220, 1910  
 MATH 1920, 2130, 2220, 2240  
 MATH 2210, 2230, 2310, 2940  
 MATH 3230, 4280  
 MATH 4310 and 4330  
 MATH 4320 and 4340  
 MATH 4710, ECON 3190, BTRY 4080  
 MATH 4720, ECON 3190, BTRY 4090

**Note:** Courses with overlapping content are not necessarily equivalent courses. Students are encouraged to consult a mathematics faculty member when choosing between them.

### Undergraduate Course Offerings

Please visit [www.math.cornell.edu](http://www.math.cornell.edu) for further information and up-to-the-minute corrections. For guidance in selecting an appropriate course, please consult *First Steps in Math*, published on the mathematics department web site under "Courses."

Foundation courses: 1105, 1106, 1110, 1120, 1220, 1910, 1920, 2130, 2210, 2220, 2230, 2240, 2310, 2930, 2940

Mathematics Education: 4510

History of Mathematics: 4030

General and Liberal Arts Courses: 1300, 1340, 1350, 1710, 3040, 4010

Analysis: 3110, 3210, 4130, 4140, 4180

Algebra and Number Theory: 3320, 3360, 4310, 4320, 4330, 4340, 4370, 4500

Combinatorics: 4410, 4420, 4550

Geometry and Topology: 3560, 4500, 4510, 4520, 4530, 4540

Probability and Statistics: 1710, 2710, 4710, 4720, 4740

Mathematical Logic: 2810, 3840, 4810, 4820, 4860

Applied Analysis and Differential Equations: 3230, 3620, 4200, 4220, 4240, 4250, 4260, 4280

#### MATH 1000 Calculus Preparation

Fall. 2 transcript credits only; cannot be used toward graduation. Prerequisite: permission of instructor. Interested students must complete a questionnaire at 310 Malott Hall to request admittance to the course. Priority will be given to students who need the course to prepare for MATH 1106 or 1110.

Introduces a wide variety of topics of algebra and trigonometry that have applications in various disciplines. Emphasis is on the development of linear, polynomial, rational, trigonometric, exponential, and logarithmic functions. Students will have a better understanding of the behavior of these functions in their application to calculus because of the strong emphasis on graphing. Application of these mathematical ideas is addressed in problem-solving activities.

#### MATH 1005 Academic Support for MATH 1105

Fall. 1 transcript credit only; cannot be used toward graduation. Reviews material presented in MATH 1105 lectures, provides problem-solving techniques and tips as well as prelim review. Provides further instruction for students who need reinforcement. Not a substitute for MATH 1105 lectures or recitations.

#### MATH 1006 Academic Support for MATH 1106

Spring. 1 transcript credit only; cannot be used toward graduation. Reviews material presented in MATH 1106 lectures, provides problem-solving techniques and tips as well as prelim review. Provides further instruction for students who need reinforcement. Not a substitute for MATH 1106 lectures or recitations.

#### MATH 1009 Precalculus Mathematics

Summer. 3 transcript credits only; cannot be used toward graduation. Designed to prepare students for MATH 1110. Reviews algebra, trigonometry, logarithms, and exponentials.

#### MATH 1011 Academic Support for MATH 1110

Fall, spring. 1 transcript credit only; cannot be used toward graduation. Reviews material presented in MATH 1110 lectures, provides problem-solving techniques and tips as well as prelim review. Provides further instruction for students who need reinforcement. Not a substitute for MATH 1110 lectures or recitations.

#### MATH 1012 Academic Support for MATH 1120

Fall, spring. 1 transcript credit only; cannot be used toward graduation. Reviews material presented in MATH 1120 lectures, provides problem-solving techniques and tips as well as prelim review. Provides further instruction for students who need reinforcement. Not a substitute for MATH 1120 lectures or recitations.

#### MATH 1105 Finite Mathematics for the Life and Social Sciences (MQR)

Fall. 3 credits. Prerequisite: three years high school mathematics, including trigonometry and logarithms. Introduction to linear algebra, probability, and Markov chains that develops the parts of the theory most relevant for applications. Specific topics include equations of lines, the method of least squares, solutions of linear systems, matrices; basic concepts of probability, permutations, combinations, binomial distribution, mean and variance, and the normal approximation to the binomial distribution. Examples from biology and the social sciences are used.

#### MATH 1106 Calculus for the Life and Social Sciences (MQR)

Spring. 3 credits. Prerequisite: three years of high school mathematics (including trigonometry and logarithms) or MATH 1000, MATH 1009, or BTRY 1150. For students planning to take MATH 1120, MATH 1110 is recommended rather than 1106. *Students may not receive credit for both MATH 1106 and MATH 1110.* Introduction to differential and integral calculus, partial derivatives, elementary differential equations. Examples from biology and the social sciences are used.

#### MATH 1110 Calculus I (MQR)

Fall, spring, summer. 4 credits. Prerequisite: three years of high school mathematics (including trigonometry and logarithms) or MATH 1000, MATH 1009, or BTRY 1150. *Students may not receive credit for both MATH 1110 and MATH 1106.* Topics include functions and graphs, limits and continuity, differentiation and integration of algebraic, trigonometric, inverse trig, logarithmic, and exponential functions; applications of differentiation, including graphing, max-min problems, tangent line approximation, implicit differentiation, and applications to the sciences; the mean value theorem; and antiderivatives, definite and indefinite integrals, the fundamental theorem of calculus, substitution in integration, the area under a curve. Graphing calculators are used, and their pitfalls are discussed, as applicable to the above topics. MATH 1110 can serve as a one-semester introduction to calculus or as part of a two-semester sequence in which it is followed by MATH 1120 or 1220.

#### MATH 1120 Calculus II (MQR)

Fall, spring. 4 credits. Prerequisite: MATH 1110 with grade of C or better or excellent performance in MATH 1106. Those who do well in MATH 1110 and expect to major in mathematics or strongly mathematics-related field should take 1220 instead of 1120. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 1120, MATH 1220, MATH 1910.*

Focuses on integration: applications, including volumes and arc length; techniques of integration, approximate integration with error

estimates, improper integrals, differential equations (separation of variables, initial conditions, systems, some applications). Also covers infinite sequences and series: definition and tests for convergence, power series, Taylor series with remainder, and parametric equations.

**MATH 1220 Honors Calculus II (MQR)**

Fall. 4 credits. Prerequisite: one semester of calculus with high performance or permission of department. Students planning to continue with MATH 2130 are advised to take 1120 instead of this course. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 1220, MATH 1120, MATH 1910.*

Takes a more theoretical approach to calculus than MATH 1120. Topics include differentiation and integration of elementary transcendental functions, techniques of integration, applications, polar coordinates, infinite series, and complex numbers, as well as an introduction to proving theorems.

**MATH 1300 Mathematical Explorations (MQR)**

Fall. 3 credits.

For students who wish to experience how mathematical ideas naturally evolve. The course emphasizes ideas and imagination as opposed to techniques and calculations. The homework involves students in actively investigating mathematical ideas. Topics vary depending on the instructor. Some assessment is done through writing assignments.

**MATH 1340 Mathematics and Politics (MQR)**

Spring. 3 credits.

We apply mathematical reasoning to some problems arising in the social sciences. We discuss game theory and its applications to political and historical conflicts. Power indices are introduced and used to analyze some political institutions. The problem of finding a fair election procedure to choose among three or more alternatives is analyzed.

**MATH 1350 The Art of Secret Writing (MQR)**

Fall, summer. 3 credits. Prerequisite: three years high school mathematics.

Examines classical and modern methods of message encryption, decryption, and cryptanalysis. Mathematical tools are developed to describe these methods (modular arithmetic, probability, matrix arithmetic, number theory), and some of the fascinating history of the methods and people involved is presented.

**MATH 1600 Totally Awesome Mathematics**

Spring. 2 credits. Prerequisite: one semester calculus. (AP credit is sufficient.)

Mathematics is a broad and varied field that extends far beyond calculus and the high school curriculum. This course will introduce exciting mathematical topics to stretch your imagination and give you a feel for the great variety of problems that mathematicians study. Each week a different lecturer will present a new topic and fun problems for discussion. Topics will vary from year to year, but may include the following: encryption and number theory, non-Euclidean geometry, knots and surfaces, combinatorics of polyhedra, the Heisenberg Uncertainty Principle and signal processing, unsolvable problems and noncomputable functions, card shuffling and

probability, symmetry and solutions of polynomial equations.

**MATH 1710 Statistical Theory and Application in the Real World (MQR)**

Fall, spring, summer. 4 credits. Prerequisite: high school mathematics. No previous familiarity with computers presumed. No credit if taken after ECON 3190, 3200, or 3210.

Introductory statistics course discussing techniques for analyzing data occurring in the real world and the mathematical and philosophical justification for these techniques. Topics include population and sample distributions, central limit theorem, statistical theories of point estimation, confidence intervals, testing hypotheses, the linear model, and the least squares estimator. The course concludes with a discussion of tests and estimates for regression and analysis of variance (if time permits). The computer is used to demonstrate some aspects of the theory, such as sampling distributions and the Central Limit Theorem. In the lab portion of the course, students learn and use computer-based methods for implementing the statistical methodology presented in the lectures.

**MATH 1910 Calculus for Engineers (MQR)**

Fall, spring, summer. 4 credits. Prerequisite: three years high school mathematics including trigonometry and logarithms and at least one course in differential and integral calculus. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 1910, MATH 1120, MATH 1220.*

Essentially a second course in calculus. Topics include techniques of integration, finding areas and volumes by integration, exponential growth, partial fractions, infinite sequences and series, and power series.

**MATH 1920 Multivariable Calculus for Engineers (MQR)**

Fall, spring, summer. 4 credits. Prerequisite: MATH 1910. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 1920, MATH 2130, MATH 2220, MATH 2240.*

Introduction to multivariable calculus. Topics include partial derivatives, double and triple integrals, line integrals, vector fields, Green's theorem, Stokes' theorem, and the divergence theorem.

**MATH 2130 Calculus III (MQR)**

Fall, spring. 4 credits. Prerequisite: MATH 1120, 1220, or 1910. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 2130, MATH 1920, MATH 2220, MATH 2240.*

Designed for students who wish to master the basic techniques of multivariable calculus, but whose major will not require a substantial amount of mathematics. Topics include vectors and vector-valued functions; multivariable and vector calculus including multiple and line integrals; first- and second-order differential equations with applications; systems of differential equations; and elementary partial differential equations. The course may emphasize different topics in the syllabus in different semesters, such as Green's theorem, Stokes' theorem, and the divergence theorem.

**MATH 2210 Linear Algebra (MQR)**

Fall, spring. 4 credits. Prerequisite: two semesters of calculus with high performance or permission of department. Recommended for students who plan to major in mathematics or a related field. For a more applied version of this course, see MATH 2310. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 2210, MATH 2230, MATH 2310, MATH 2940.*

Topics include vector algebra, linear transformations, matrices, determinants, orthogonality, eigenvalues, and eigenvectors. Applications are made to linear differential equations.

**MATH 2220 Multivariable Calculus (MQR)**

Fall, spring. 4 credits. Prerequisite: MATH 2210. Recommended for students who plan to major in mathematics or a related field. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 2220, MATH 1920, MATH 2130, MATH 2240.*

Differential and integral calculus of functions in several variables, line and surface integrals as well as the theorems of Green, Stokes, and Gauss.

**MATH 2230 Theoretical Linear Algebra and Calculus (MQR)**

Fall. 4 credits. Prerequisite: two semesters of calculus with grade of A- or better, or permission of instructor. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 2230, MATH 2210, MATH 2310, MATH 2940.*

MATH 2230–2240 provides an integrated treatment of linear algebra and multivariable calculus designed for students who have been highly successful in their previous calculus courses. The material is presented at a higher theoretical level than in 2210–2220. Topics in 2230 include vectors, matrices, and linear transformations; differential calculus of functions of several variables; inverse and implicit function theorems; quadratic forms, extrema, and manifolds; multiple and iterated integrals.

**MATH 2240 Theoretical Linear Algebra and Calculus (MQR)**

Spring. 4 credits. Prerequisite: MATH 2230. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 2240, MATH 1920, MATH 2130, MATH 2220.*

Topics include vector fields; line integrals; differential forms and exterior derivative; work, flux, and density forms; integration of forms over parametrized domains; and Green's, Stokes', and divergence theorems.

**MATH 2310 Linear Algebra with Applications (MQR)**

Fall, spring. 3 credits. Prerequisite: MATH 1110 or equivalent. Students who plan to major in mathematics should take MATH 2210 or 2940. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 2310, MATH 2210, MATH 2230, MATH 2940.*

Introduction to linear algebra for students who wish to focus on the practical applications of the subject. A wide range of applications are discussed and computer software may be used. The main topics are systems of linear equations, matrices, determinants, vector spaces, orthogonality, and eigenvalues. Typical

applications are population models, input/output models, least squares, and difference equations.

**MATH 2710 A Second Course in Statistics**

Spring. 4 credits. Prerequisite: two semesters of calculus (MATH 1110-1120 or equivalent) or permission of instructor. Recommended: an introductory statistics course such as AP statistics, MATH 1710, ILRST 2100, or similar.

Designed for students who wish to build on their knowledge of basic statistics to obtain a more modern and advanced perspective on the field. The treatment will be elementary and accessible to students of the sciences and other fields, but a good working knowledge of calculus is assumed. An extended review of probability and random variables will be given first. Statistical inference topics to be discussed include estimation, testing hypotheses, nonparametric methods, multiple regression, and the analysis of variance. Both classical and Bayesian statistical methods are developed in an integrated presentation. Computer exercises will supplement the theory. With some effort, students with no prior knowledge of statistics should be able to master the course.

**MATH 2810 Deductive Logic (also PHIL 3310) (MQR)**

Fall. 4 credits.

For description, see PHIL 3310.

**MATH 2930 Differential Equations for Engineers (MQR)**

Fall, spring, summer. 4 credits. Prerequisite: MATH 1920. Taking MATH 2930 and 2940 simultaneously is not recommended.

Introduction to ordinary and partial differential equations. Topics include: first-order equations (separable, linear, homogeneous, exact); mathematical modeling (e.g., population growth, terminal velocity); qualitative methods (slope fields, phase plots, equilibria, and stability); numerical methods; second-order equations (method of undetermined coefficients, application to oscillations and resonance, boundary-value problems and eigenvalues); Fourier series; linear partial differential equations (heat flow, waves, the Laplace equation); and linear systems of ordinary differential equations.

**MATH 2940 Linear Algebra for Engineers (MQR)**

Fall, spring, summer. 4 credits. Prerequisite: MATH 1920. Taking MATH 2930 and 2940 simultaneously is not recommended. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 2940, MATH 2210, MATH 2230, MATH 2310.*

Linear algebra and its applications. Topics include matrices, determinants, vector spaces, eigenvalues and eigenvectors, orthogonality and inner product spaces; applications include brief introductions to difference equations, Markov chains, and systems of linear ordinary differential equations. May include computer use in solving problems.

**MATH 3040 Prove It! (MQR)**

Spring. 4 credits. Prerequisite: MATH 2210, 2230, 2940, or permission of instructor.

In mathematics, the methodology of proof provides a central tool for confirming the validity of mathematical assertions, functioning much as the experimental method does in the physical sciences. In this course, students learn

various methods of mathematical proof, starting with basic techniques in propositional and predicate calculus and in set theory and combinatorics, and then moving to applications and illustrations of these via topics in one or more of the three main pillars of mathematics: algebra, analysis, and geometry. Since cogent communication of mathematical ideas is important in the presentation of proofs, the course emphasizes clear, concise exposition. This course is useful for all students who wish to improve their skills in mathematical proof and exposition, or who intend to study more advanced topics in mathematics.

**MATH 3110 Introduction to Analysis (MQR)**

Fall, spring. 4 credits. Prerequisites: MATH 2210-2220, 2230-2240, or 1920 and 2940.

Provides a transition from calculus to real analysis. Topics include rigorous treatment of fundamental concepts in calculus: including limits and convergence of sequences and series, compact sets; continuity, uniform continuity and differentiability of functions. Emphasis is placed upon understanding and constructing mathematical proofs.

**MATH 3210 Manifolds and Differential Forms (MQR)**

Fall. 4 credits. Prerequisites: multivariable calculus and linear algebra (e.g., MATH 2210-2220, 2230-2240, or 1920 and 2940).

A manifold is a type of subset of Euclidean space that has a well-defined tangent space at every point. Such a set is amenable to the methods of multivariable calculus. After a review of some relevant calculus, this course investigates manifolds and the structures that they are endowed with, such as tangent vectors, boundaries, orientations, and differential forms. The notion of a differential form encompasses such ideas as surface and volume forms, the work exerted by a force, the flow of a fluid, and the curvature of a surface, space, or hyperspace. The course re-examines the integral theorems of vector calculus (Green, Gauss, and Stokes) in the light of differential forms and apply them to problems in partial differential equations, topology, fluid mechanics, and electromagnetism.

**[MATH 3230 Introduction to Differential Equations (MQR)**

Fall. 4 credits. Prerequisites: multivariable calculus and linear algebra (e.g., MATH 2210-2220, 2230-2240, or 1920 and 2940), or permission of instructor. *Students may not receive credit for both MATH 3230 and MATH 4280.* Next offered 2010-2011.

Intended for students who want a brief one-semester introduction to the theory and techniques of both ordinary and partial differential equations.]

**MATH 3320 Introduction to Number Theory (MQR)**

Fall. 4 credits. Prerequisite: MATH 2210, 2230, 2310, or 2940.

An introductory course on number theory, the branch of algebra that studies the deeper properties of integers and their generalizations. Usually includes most of the following topics: the Euclidean algorithm, continued fractions, Pythagorean triples, Diophantine equations such as Pell's equation, congruences, quadratic reciprocity, binary quadratic forms, Gaussian integers, and factorization in quadratic number fields. May include a brief introduction to Fermat's Last Theorem.

**MATH 3360 Applicable Algebra (MQR)**

Spring. 4 credits. Prerequisite: MATH 2210, 2230, 2310, or 2940.

Introduction to the concepts and methods of abstract algebra and number theory that are of interest in applications. Covers the basic theory of groups, rings and fields and their applications to such areas as public-key cryptography, error-correcting codes, parallel computing, and experimental designs. Applications include the RSA cryptosystem and use of finite fields to construct error-correcting codes and Latin squares. Topics include elementary number theory, Euclidean algorithm, prime factorization, congruences, theorems of Fermat and Euler, elementary group theory, Chinese remainder theorem, factorization in the ring of polynomials, and classification of finite fields.

**MATH 3560 Groups and Geometry (MQR)**

Spring. 4 credits. Prerequisite: MATH 2210, 2230, 2310, or 2940. Prior knowledge of group theory is not a prerequisite.

A geometric introduction to the algebraic theory of groups, through the study of symmetries of planar patterns and 3-dimensional regular polyhedra. Besides studying these algebraic and geometric objects themselves, the course also provides an introduction to abstract mathematical thinking and mathematical proofs, serving as a bridge to the more advanced 4000-level courses. Abstract concepts covered include: axioms for groups; subgroups and quotient groups; isomorphisms and homomorphisms; conjugacy; group actions, orbits, and stabilizers. These are all illustrated concretely through the visual medium of geometry.

**[MATH 3620 Dynamic Models in Biology (also BIOEE 3620) (MQR)**

Spring. 4 credits. Prerequisite: two semesters of introductory biology (BIOG 1101-1102, 1105-1106, 1107-1108, 1109-1110, or equivalent) and completion of math requirements for biological sciences major or equivalent. Next offered 2010-2011.

For description, see BIOEE 3620.]

**[MATH 4010 Honors Seminar: Topics in Modern Mathematics (MQR)**

Spring. 4 credits. Prerequisite: two mathematics courses numbered 3000 or higher or permission of instructor. Next offered 2010-2011.

Participatory seminar aimed at introducing senior and junior mathematics majors to challenging problems and areas of modern mathematics. Helps students develop research and expository skills.]

**MATH 4030 History of Mathematics # (MQR)**

Spring. 4 credits. Prerequisite: two mathematics courses above 3000, or permission of instructor.

Survey of the development of mathematics from antiquity to the present, with an emphasis on the achievements, problems, and mathematical viewpoints of each historical period and the evolution of such basic concepts as number, geometry, construction, and proof. Readings from original sources in translation. Students are required to give oral and written reports. In addition to the lecture, a problem session (to be arranged) will meet twice a week.

**MATH 4130 Honors Introduction to Analysis I (MQR)**

Fall, spring, 4 credits. Prerequisite: high level of performance in MATH 2210–2220, 2230–2240, or 1920 and 2940 and familiarity with proofs. Students who do not intend to take MATH 4140 are encouraged to take MATH 4130 in the spring.

Introduction to the rigorous theory underlying calculus, covering the real number system and functions of one variable. Based entirely on proofs. The student is expected to know how to read and, to some extent, construct proofs before taking this course. Topics typically include construction of the real number system, properties of the real number system, continuous functions, differential and integral calculus of functions of one variable, sequences and series of functions.

**MATH 4140 Honors Introduction to Analysis II (MQR)**

Spring, 4 credits. Prerequisite: MATH 4130. Proof-based introduction to further topics in analysis. Topics may include the Lebesgue measure and integration, functions of several variables, differential calculus, implicit function theorem, infinite dimensional normed and metric spaces, Fourier series, ordinary differential equations.

**MATH 4180 Introduction to the Theory of Functions of One Complex Variable (MQR)**

Spring, 4 credits. Prerequisite: MATH 2230–2240, 3110, or 4130 or permission of instructor.

Theoretical and rigorous introduction to complex variable theory. Topics include complex numbers, differential and integral calculus for functions of a complex variable including Cauchy's theorem and the calculus of residues, elements of conformal mapping. Students interested in the applications of complex analysis should consider MATH 4220.

**MATH 4200 Differential Equations and Dynamical Systems (MQR)**

Fall, 4 credits. Prerequisite: high level of performance in MATH 2210–2220, 2230–2240, 1920 and 2940, or permission of instructor.

Covers ordinary differential equations in one and higher dimensions: qualitative, analytic, and numerical methods. Emphasis is on differential equations as models and the implications of the theory for the behavior of the system being modeled and includes an introduction to bifurcations.

**MATH 4220 Applied Complex Analysis (MQR)**

Spring, 4 credits. Prerequisite: MATH 2210–2220, 2230–2240, 1920 and 2940, or 2130 and 2310. Undergraduates who plan to attend graduate school should take MATH 4180.

Covers complex variables, Fourier transforms, Laplace transforms and applications to partial differential equations. Additional topics may include an introduction to generalized functions.

**[MATH 4240 Wavelets and Fourier Series (MQR)**

Spring, 4 credits. Prerequisite: MATH 2210–2220, 2230–2240, 1920 and 2940, or permission of instructor. Next offered 2010–2011.

Both Fourier series and wavelets provide methods to represent or approximate general

functions in terms of simple building blocks. Such representations have important consequences, both for pure mathematics and for applications. Emphasis is on clear statements of results and key ideas of proofs, working out examples, and applications.]

**MATH 4250 Numerical Analysis and Differential Equations (also CS 4210) (MQR)**

Fall, 4 credits. Prerequisites: MATH 2210 or 2940 or equivalent, one additional mathematics course numbered 3000 or above, and knowledge of programming.

Introduction to the fundamentals of numerical analysis: error analysis, approximation, interpolation, numerical integration. In the second half of the course, the above are used to build approximate solvers for ordinary and partial differential equations. Strong emphasis is placed on understanding the advantages, disadvantages, and limits of applicability for all the covered techniques. Computer programming is required to test the theoretical concepts throughout the course. MATH 4250 (CS 4210) and MATH 4260 (CS 4220) provide a comprehensive introduction to numerical analysis; these classes can be taken independently from each other and in either order.

**MATH 4260 Numerical Analysis: Linear and Nonlinear Problems (also CS 4220) (MQR)**

Spring, 4 credits. Prerequisites: MATH 2210 or 2940 or equivalent, one additional mathematics course numbered 3000 or above, and knowledge of programming.

Introduction to the fundamentals of numerical linear algebra: direct and iterative methods for linear systems, eigenvalue problems, singular value decomposition. In the second half of the course, the above are used to build iterative methods for nonlinear systems and for multivariate optimization. Strong emphasis is placed on understanding the advantages, disadvantages, and limits of applicability for all the covered techniques. Computer programming is required to test the theoretical concepts throughout the course. MATH 4250 (CS 4210) and MATH 4260 (CS 4220) provide a comprehensive introduction to numerical analysis; these classes can be taken independently from each other and in either order.

**MATH 4280 Introduction to Partial Differential Equations (MQR)**

Spring, 4 credits. Prerequisite: MATH 2210–2220, 2230–2240, or 1920 and 2940, or permission of instructor. *Students may not receive credit for both MATH 3230 and MATH 4280.*

Topics are selected from first-order quasilinear equations, classification of second-order equations, with emphasis on maximum principles, existence, uniqueness, stability, Fourier series methods, approximation methods.

**MATH 4310 Linear Algebra (MQR)**

Fall, 4 credits. Prerequisite: MATH 2210, 2230, 2310, or 2940. Undergraduates who plan to attend graduate school in mathematics should take MATH 4330–4340. *Students may not receive credit for both MATH 4310 and MATH 4330.*

Introduction to linear algebra, including the study of vector spaces, linear transformations, matrices, and systems of linear equations. Additional topics are quadratic forms and inner product spaces, canonical forms for

various classes of matrices and linear transformations.

**MATH 4320 Introduction to Algebra (MQR)**

Spring, 4 credits. Prerequisite: MATH 3320, 3360, 4310 or 4330, or permission of instructor. Undergraduates who plan to attend graduate school in mathematics should take MATH 4330–4340. *Students may not receive credit for both MATH 4320 and MATH 4340.*

Introduction to various topics in abstract algebra, including groups, rings, fields, factorization of polynomials and integers, congruences, and the structure of finitely generated abelian groups. Optional topics are modules over Euclidean domains and Sylow theorems.

**MATH 4330 Honors Linear Algebra (MQR)**

Fall, 4 credits. Prerequisite: high level of performance in MATH 2210, 2230, 2310, or 2940. *Students may not receive credit for both MATH 4310 and MATH 4330.*

Honors version of a course in advanced linear algebra, which treats the subject from an abstract and axiomatic viewpoint. Topics include vector spaces, linear transformations, polynomials, determinants, tensor and wedge products, canonical forms, inner product spaces, and bilinear forms. Emphasis is on understanding the theory of linear algebra; homework and exams include at least as many proofs as computational problems. For a less theoretical course that covers approximately the same subject matter, see MATH 4310.

**MATH 4340 Honors Introduction to Algebra (MQR)**

Spring, 4 credits. Prerequisite: MATH 4330 or permission of instructor. *Students may not receive credit for both MATH 4320 and MATH 4340.*

Honors version of a course in abstract algebra, which treats the subject from an abstract and axiomatic viewpoint, including universal mapping properties. Topics include groups, groups acting on sets, Sylow theorems; rings, factorization: Euclidean rings, principal ideal domains and unique factorization domains, the structure of finitely generated modules over a principal ideal domain, fields, and Galois theory. The course emphasizes understanding the theory with proofs in both homework and exams. An optional computational component using the computer language GAP is available. For a less theoretical course that covers similar subject matter, see MATH 4320.

**MATH 4370 Computational Algebra (MQR)**

Spring, 4 credits. Prerequisite: linear algebra (MATH 2940, or MATH 2210, or MATH 4310).

Introduction to Gröbner bases theory, which is the foundation of many algorithms in computational algebra. In this course, students learn how to compute a Gröbner basis for polynomials in many variables. Covers the following applications: solving systems of polynomial equations in many variables, solving diophantine equations in many variables, 3-colorable graphs, and integer programming. Such applications arise, for example, in computer science, engineering, economics, and physics.

**MATH 4410 Introduction to Combinatorics I (MQR)**

Fall, 4 credits. Prerequisite: MATH 2210, 2230, 2310, or 2940.

Combinatorics is the study of discrete structures that arise in a variety of areas, particularly in other areas of mathematics, computer science, and many areas of application. Central concerns are often to count objects having a particular property (e.g., trees) or to prove that certain structures exist (e.g., matchings of all vertices in a graph). The first semester of this sequence covers basic questions in graph theory, including extremal graph theory (how large must a graph be before one is guaranteed to have a certain subgraph) and Ramsey theory (which shows that large objects are forced to have structure). Variations on matching theory are discussed, including theorems of Dilworth, Hall, König, and Birkhoff, and an introduction to network flow theory. Methods of enumeration (inclusion/exclusion, Möbius inversion, and generating functions) are introduced and applied to the problems of counting permutations, partitions, and triangulations.

**MATH 4420 Introduction to Combinatorics II (MQR)**

Spring. 4 credits. Prerequisite: MATH 2210, 2230, 2310, or 2940.

Continuation of MATH 4410, although formally independent of the material covered there. The emphasis here is the study of certain combinatorial structures, such as Latin squares and combinatorial designs (which are of use in statistical experimental design), classical finite geometries and combinatorial geometries (also known as matroids, which arise in many areas from algebra and geometry through discrete optimization theory). There is an introduction to partially ordered sets and lattices, including general Möbius inversion and its application, as well as the Polya theory of counting in the presence of symmetries.

**[MATH 4500 Matrix Groups (MQR)**

Fall. 4 credits. Prerequisite: MATH 2210–2220, 2230–2240, or 1920 and 2940. Next offered 2010–2011.

Topics include Lie algebras (which are an extension of the notion of vector multiplication in three-dimensional space), the exponential mapping (a generalization of the exponential function of calculus), and representation theory (which studies the different ways in which groups can be represented by matrices.)

**MATH 4510 Euclidean and Spherical Geometry (MQR)**

Fall. 4 credits. Prerequisite: MATH 2210, 2230, 2310, or 2940, or permission of instructor.

Covers topics from Euclidean and spherical (non-Euclidean) geometry. Nonlecture, seminar-style course organized around student participation.

**MATH 4520 Classical Geometries (MQR)**

Spring. 4 credits. Prerequisite: MATH 2210, 2230, 2310, or 2940, or permission of instructor.

Introduction to hyperbolic and projective geometry—the classical geometries that developed as Euclidean geometry was better understood. For example, the historical problem of the independence of Euclid's fifth postulate is understood when the existence of the hyperbolic plane is realized. Straightedge (and compass) constructions and stereographic projection in Euclidean geometry can be understood within the structure of projective geometry. Topics in hyperbolic geometry include models of the

hyperbolic plane and relations to spherical geometry. Topics in projective geometry include homogeneous coordinates and the classical theorems about conics and configurations of points and lines. Optional topics include principles of perspective drawing, finite projective planes, orthogonal Latin squares, and the cross ratio.

**MATH 4530 Introduction to Topology (MQR)**

Fall. 4 credits. Prerequisite: MATH 2210, 2230, 2310, or 2940, plus at least one mathematics course numbered 3000 or above, or permission of instructor.

Topology may be described briefly as qualitative geometry. This course begins with basic point-set topology, including connectedness, compactness, and metric spaces. Later topics may include the classification of surfaces (such as the Klein bottle and Möbius band), elementary knot theory, or the fundamental group and covering spaces.

**MATH 4540 Introduction to Differential Geometry (MQR)**

Spring. 4 credits. Prerequisites: MATH 2210–2220, 2230–2240, or 2930–2940, plus at least one mathematics course numbered 3000 or above. MATH 4530 is not a prerequisite.

Differential geometry involves using calculus to study geometric concepts such as curvature and geodesics. This introductory course focuses on the differential geometry of curves and surfaces. It may also touch upon the higher-dimensional generalizations, Riemannian manifolds, which underlie the study of general relativity.

**[MATH 4550 Applicable Geometry (MQR)**

Spring. 4 credits. Prerequisite: good introduction to linear algebra (e.g., MATH 2210, 2230, 2310, or 2940) or permission of instructor. Does not assume students know the meaning of all words in the following description. Next offered 2010–2011.

Introduction to the theory of  $n$ -dimensional convex polytopes and polyhedra and some of its applications, with an in-depth treatment of the case of three dimensions.]

**MATH 4710 Basic Probability (MQR)**

Fall. 4 credits. Prerequisites: one year of calculus. Recommended: some knowledge of multivariate calculus. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 4710, ECON 3190, BTRY 4080.*

Introduction to probability theory, which prepares the student to take MATH 4720. The course begins with basics: combinatorial probability, mean and variance, independence, conditional probability, and Bayes formula. Density and distribution functions and their properties are introduced. The law of large numbers and the central limit theorem are stated and their implications for statistics are discussed.

**MATH 4720 Statistics (MQR)**

Spring. 4 credits. Prerequisites: MATH 4710 and knowledge of linear algebra (e.g., MATH 2210). Recommended: some knowledge of multivariable calculus. *Due to an overlap in content, students will receive credit for only one course in the following group: MATH 4720, ECON 3190, BTRY 4090.*

Statistics have proved to be an important research tool in nearly all of the physical,

biological, and social sciences. This course serves as an introduction to statistics for students who already have some background in calculus, linear algebra, and probability theory. Topics include parameter estimation, hypothesis testing, and linear regression. The course emphasizes both the mathematical theory of statistics and techniques for data analysis that are useful in solving scientific problems.

**MATH 4740 Stochastic Processes (MQR)**

Spring. 4 credits. Prerequisites: MATH 4710, BTRY 4080, ORIE 3600, or ECON 3190 and some knowledge of matrices (multiplication and inverses).

A one-semester introduction to stochastic processes which develops the theory together with applications. The course will always cover Markov chains in discrete and continuous time and Poisson processes. Depending upon the interests of the instructor and the students, other topics may include queueing theory, martingales, Brownian motion, and option pricing. This course may be useful to graduate students in the biological sciences or other disciplines who encounter stochastic models in their work but who do not have the background for more advanced courses such as ORIE 6500.

**[MATH 4810 Mathematical Logic (also PHIL 4310) (MQR)**

Spring. 4 credits. Prerequisites: MATH 2220 or 2230 and preferably some additional course involving proofs in mathematics, computer science, or philosophy. Next offered 2010–2011.

First course in mathematical logic: formal definitions of languages, truth, proofs and computability. Completeness, incompleteness and compactness theorems.]

**MATH 4820 Topics in Logic (also PHIL 4311) (MQR)**

Spring. 4 credits.

For description, see PHIL 4311.

**MATH 4860 Applied Logic (also CS 4860) (MQR)**

Fall. 4 credits. Prerequisites: MATH 2210–2220, 2230–2240, or 1920 and 2940; CS 2800 or equivalent (e.g., MATH 3320, 3360, 4320, 4340, or 4810); and additional course in mathematics or theoretical computer science.

Covers propositional and predicate logic; compactness and completeness by tableaux, natural deduction, and resolution. Other possible topics include equational logic; Herbrand Universes and unification; rewrite rules and equational logic, Knuth-Bendix method and the congruence-closure algorithm and lambda-calculus reduction strategies; topics in Prolog, LISP, ML, or Nuprl; and applications to expert systems and program verification.

**MATH 4900 Supervised Reading and Research**

Fall, spring. 1–6 credits.

Supervised reading and research by arrangement with individual professors. Not for material currently available in regularly scheduled courses.

**Professional-Level and Mathematics Education Courses**

**MATH 5080 Mathematics for Secondary School Teachers**

Fall, spring. 1–6 credits. Prerequisite: secondary school mathematics teachers or permission of instructor.

Examination of the principles underlying the content of the secondary school mathematics curriculum, including connections with the history of mathematics and current mathematics research.

**Graduate Courses**

Many of our graduate courses are topics for which descriptions are not included here; however, during each pre-enrollment period a schedule of graduate courses to be offered the following semester is posted at [www.math.cornell.edu](http://www.math.cornell.edu) under "Courses." This web site includes course descriptions that are often more detailed than those included here, as well as a means for interested students to participate in the process of scheduling meeting times.

**MATH 6110 Real Analysis**

Fall. 4 credits.  
MATH 6110–6120 are the core analysis courses in the mathematics graduate program. 6110 covers measure and integration and functional analysis.

**MATH 6120 Complex Analysis**

Spring. 4 credits.  
MATH 6110–6120 are the core analysis courses in the mathematics graduate program. 6120 covers complex analysis, Fourier analysis, and distribution theory.

**MATH [6130]–6140 Topics in Analysis**

6130, fall; 6140, spring. 4 credits each. 6130 next offered 2010–2011.

**MATH 6170 Dynamical Systems**

Fall. 4 credits. Generally offered every two years.  
Topics include existence and uniqueness theorems for ODEs; Poincaré-Bendixon theorem and global properties of two dimensional flows; limit sets, nonwandering sets, chain recurrence, pseudo-orbits and structural stability; linearization at equilibrium points: stable manifold theorem and the Hartman-Grobman theorem; and generic properties: transversality theorem and the Kupka-Smale theorem. Examples include expanding maps and Anosov diffeomorphisms; hyperbolicity: the horseshoe and the Birkhoff-Smale theorem on transversal homoclinic orbits; rotation numbers; Herman's theorem; and characterization of structurally stable systems.

**[MATH 6180 Smooth Ergodic Theory**

4 credits. Next offered 2010–2011.  
Topics include invariant measures; entropy; Hausdorff dimension and related concepts; hyperbolic invariant sets: stable manifolds, Markov partitions and symbolic dynamics; equilibrium measures of hyperbolic attractors; ergodic theorems; Pesin theory: stable manifolds of nonhyperbolic systems; Liapunov exponents; and relations between entropy, exponents, and dimensions.]

**MATH 6190–6200 Partial Differential Equations**

6190, fall; 6200, spring. 4 credits each semester.  
Covers basic theory of partial differential equations.

**MATH 6210 Measure Theory and Lebesgue Integration**

Fall. 4 credits.  
Covers measure theory, integration, and  $L_p$  spaces.

**MATH 6220 Applied Functional Analysis**

Spring. 4 credits.  
Covers basic theory of Hilbert and Banach spaces and operations on them. Applications.

**[MATH 6280 Complex Dynamical Systems**

4 credits. Prerequisite: MATH 4180. Next offered 2010–2011.  
This course covers various topics in the dynamics of analytic mappings in one complex variable, including Julia sets, the Mandelbrot set, and selected additional topics.]

**MATH 6310 Algebra**

Fall. 4 credits. Assumes familiarity with material of standard undergraduate course in abstract algebra.  
MATH 6310–6320 are the core algebra courses in the mathematics graduate program. 6310 covers group theory, especially finite groups; rings and modules; ideal theory in commutative rings; arithmetic and factorization in principal ideal domains and unique factorization domains; introduction to field theory; tensor products and multilinear algebra. (Optional topic: introduction to affine algebraic geometry.)

**MATH 6320 Algebra**

Spring. 4 credits. Prerequisite: MATH 6310.  
MATH 6310–6320 are the core algebra courses in the mathematics graduate program. 6320 covers Galois theory, representation theory of finite groups, introduction to homological algebra. Familiarity with the material of a standard undergraduate course in abstract algebra will be assumed.

**MATH 6330 Noncommutative Algebra**

Fall 4 credits.  
Covers Wedderburn structure theorem, Brauer group, and group cohomology.

**MATH 6340 Commutative Algebra**

Spring. 4 credits.  
Covers Dedekind domains, primary decomposition, Hilbert basis theorem, and local rings.

**[MATH 6490 Lie Algebras**

Spring. 4 credits. Next offered 2010–2011.  
Topics include nilpotent, solvable and reductive Lie algebras; enveloping algebras; root systems; Coxeter groups; and classification of simple algebras.]

**MATH 6500 Lie Groups**

Spring. 4 credits.  
Topics include topological groups, Lie groups; relation between Lie groups and Lie algebras; exponential map, homogeneous manifolds; and invariant differential operators.

**MATH 6510 Algebraic Topology**

Spring. 4 credits.  
One of the core topology courses in the mathematics graduate program. An introductory study of certain geometric processes for associating algebraic objects such as groups to topological spaces. The most important of these are homology groups and homotopy groups, especially the first homotopy group or fundamental group, with the related notions of covering spaces and group actions. The development of homology theory focuses on verification of the Eilenberg-Steenrod axioms and on effective methods of calculation such as simplicial and cellular homology and Mayer-Vietoris sequences. If time permits, the cohomology ring of a space may be introduced.

**MATH 6520 Differentiable Manifolds I**

Fall. 4 credits. Prerequisites: advanced calculus, linear algebra (MATH 4310), point-set topology (MATH 4530).  
One of the core topology courses in the mathematics graduate program. Introduction to geometry and topology from a differentiable viewpoint, suitable for beginning graduate students. The objects of study are manifolds and differentiable maps. The collection of all tangent vectors to a manifold forms the tangent bundle, and a section of the tangent bundle is a vector field. Alternatively, vector fields can be viewed as first-order differential operators. Students study flows of vector fields and prove the Frobenius integrability theorem. In the presence of a Riemannian metric, the notions of parallel transport, curvature, and geodesics are development. Students examine the tensor calculus and the exterior differential calculus and prove Stokes' theorem. If time permits, de Rham cohomology, Morse theory, or other optional topics are introduced.

**[MATH 6530 Differentiable Manifolds II**

Spring. Prerequisites: MATH 6520 or equivalent. Next offered 2010–2011.  
Advanced topics from differential geometry and differential topology selected by instructor. Examples of eligible topics include transversality, cobordism, Morse theory, classification of vector bundles and principal bundles, characteristic classes, microlocal analysis, conformal geometry, geometric analysis and partial differential equations, and Atiyah-Singer index theorem.]

**[MATH 6610 Geometric Topology**

Fall. 4 credits. Next offered 2010–2011.  
Introduction to some of the more geometric aspects of topology and its connections with group theory. Possible topics include surface theory, 3-manifolds, knot theory, geometric and combinatorial group theory, hyperbolic groups, and hyperbolic manifolds.]

**MATH 6620 Riemannian Geometry**

Spring. 4 credits.  
Topics include linear connections, Riemannian metrics and parallel translation; covariant differentiation and curvature tensors; the exponential map, the Gauss Lemma and completeness of the metric; isometries and space forms, Jacobi fields and the theorem of Cartan-Hadamard; the first and second variation formulas; the index form of Morse and the theorem of Bonnet-Myers; the Rauch, Hessian, and Laplacian comparison theorems; the Morse index theorem; the conjugate and cut loci; and submanifolds and the Second Fundamental form.

**MATH 6710 Probability Theory I**

Fall. 4 credits. Prerequisite: knowledge of Lebesgue integration theory, at least on real line. (Students can learn this material by taking parts of MATH 4130–4140 or 6210.)  
A mathematically rigorous course in probability theory which uses measure theory but begins with the basic definitions of independence and expected value in that context. Law of large numbers, Poisson and central limit theorems, and random walks.

**MATH 6720 Probability Theory II**

Spring. 4 credits. Prerequisite: MATH 6710.  
Conditional expectation, martingales, Brownian motion. Other topics such as Markov chains, ergodic theory, and stochastic calculus depending on time and interests of the instructor.

**MATH 6740 Introduction to Mathematical Statistics**

Spring, 4 credits. Prerequisites: MATH 6710 (measure theoretic probability) and ORIE 6700, or permission of instructor.

Topics include an introduction to the theory of point estimation, hypothesis testing and confidence intervals, consistency, efficiency, and the method of maximum likelihood. Basic concepts of decision theory are discussed; the key role of the sufficiency principle is highlighted and applications are given for finding Bayesian, minimax, and unbiased optimal decisions. Modern computer-intensive methods like the bootstrap receive some attention, as do simulation methods involving Markov chains. The parallel development of some concepts of machine learning is exemplified by classification algorithms. An optional section may include nonparametric curve estimation and elements of large sample asymptotics.

**MATH 6810 Logic**

Spring, 4 credits.

Covers basic topics in mathematical logic, including propositional and predicate calculus; formal number theory and recursive functions; completeness and incompleteness theorems, compactness and Skolem-Loewenheim theorems. Other topics as time permits.

**MATH [7110]-7120 Seminar in Analysis**

7110, fall; 7120, spring, 4 credits. 7110 next offered 2010-2011.

**MATH 7130 Functional Analysis**

Spring, 4 credits.

Covers topological vector spaces, Banach and Hilbert spaces, and Banach algebras. Additional topics selected by instructor.

**[MATH 7150 Fourier Analysis**

Spring, 4 credits. Next offered 2010-2011.]

**MATH 7170 Applied Dynamical Systems (also TAM 7760)**

Fall, 4 credits. Recommended: TAM 6750, MATH 6170, or equivalent.

Topics include review of planar (single-degree-of-freedom) systems; local and global analysis; structural stability and bifurcations in planar systems; center manifolds and normal forms; the averaging theorem and perturbation methods; Melnikov's method; discrete dynamical systems, maps and difference equations, homoclinic and heteroclinic motions, the Smale Horseshoe and other complex invariant sets; global bifurcations, strange attractors, and chaos in free and forced oscillator equations; and applications to problems in solid and fluid mechanics.

**[MATH 7310-7320 Seminar in Algebra**

7310, fall; 7320, spring, 4 credits each semester. Next offered 2010-2011.]

**MATH 7350 Topics in Algebra**

Fall, spring, 4 credits.

Selection of advanced topics from algebra, algebraic number theory, and algebraic geometry. Course content varies.

**[MATH 7370 Algebraic Number Theory**

4 credits. Next offered 2010-2011.]

**MATH 7390 Topics in Algebra**

Fall, spring, 4 credits.

Selection of advanced topics from algebra, algebraic number theory, and algebraic geometry. Content varies.

**[MATH 7400 Homological Algebra**

Fall, 4 credits. Next offered 2010-2011.]

**MATH 7510-7520 Berstein Seminar in Topology**

7510, fall; 7520, spring, 4 credits each semester.

**[MATH 7530 Algebraic Topology II**

Fall, 4 credits. Next offered 2010-2011.

Continuation of 6510. The standard topics most years are cohomology, cup products, Poincaré duality, and homotopy groups. Other possible topics include fiber bundles, fibrations, vector bundles, and characteristic classes. May sometimes be taught from a differential forms viewpoint.]

**MATH 7550-7560 Topology and Geometric Group Theory Seminar**

7550, fall; 7560, spring, 4 credits each semester.

**MATH 7570-7580 Topics in Topology**

7570, fall; 7580, spring, 4 credits each semester.

Selection of advanced topics from modern algebraic, differential, and geometric topology. Content varies.

**MATH 7610-7620 Seminar in Geometry**

7610, fall; 7620, spring, 4 credits each semester.

**MATH 7670 Algebraic Geometry**

Fall, spring, 4 credits.

**MATH 7710-7720 Seminar in Probability and Statistics**

7710, fall; 7720, spring, 4 credits each semester.

**MATH 7740 Statistical Learning Theory**

Fall, 4 credits. Prerequisites: basic mathematical statistics (MATH 6740 or equivalent) and measure theoretic probability (MATH 6710).

The course aims to present the developing interface between machine learning theory and statistics. Topics are classification and pattern recognition, support vector machines, neural networks, tree methods, and boosting.

**[MATH 7750 Statistical Theories Applicable to Genomics**

4 credits. Next offered 2010-2011.

Focuses on statistical concepts useful in genomics (e.g., microarray data analysis) that involve a large number of populations. Discusses false discovery rate (FDR) of Benjamini and Hochberg, and Storey's papers relating to pFDR. Also discusses the Empirical Bayes approach, which could "borrow the strength" from other populations.]

**MATH 7770-7780 Stochastic Processes**

7770, fall; 7780, spring, 4 credits each semester.

**MATH 7810-7820 Seminar in Logic**

7810, fall; 7820, spring, 4 credits each semester.

**MATH 7830 Model Theory**

Spring, 4 credits.

Introduction to model theory at the level of the books by Hodges or Chang and Keisler.

**MATH 7840 Recursion Theory**

Fall, 4 credits.

Covers theory of effectively computable functions; classification of recursively enumerable sets; degrees of recursive unsolvability; applications to logic; hierarchies; recursive functions of ordinals and higher type objects; generalized recursion theory.

**[MATH 7870 Set Theory**

Spring, 4 credits. Next offered 2010-2011. First course in axiomatic set theory at the level of the book by Kunen.]

**MATH 7880 Topics in Applied Logic**

Fall, 4 credits.

Covers applications of the results and methods of mathematical logic to other areas of mathematics and science. Topics vary each year; some recent examples are: automatic theorem proving, formal semantics of programming and specification languages, linear logic, constructivism (intuitionism), nonstandard analysis, automata theory, and finite model theory. This year the course will be conducted as a teaching and research seminar covering current topics in the logical foundations of computer science. Topics will include logics and model theory for hybrid systems, non-monotonic reasoning, and probabilistic reasoning.

**MATH 7900 Supervised Reading and Research**

Fall, spring, 1-6 credits.

## MEDIEVAL STUDIES

A. S. Galloway, director; F. M. Ahl, K. Bowes, R. Brann, C. Brittain, E. W. Browne, O. Falk, A. B. Groos, K. Haines-Eitzen, W. E. Harbert, T. D. Hill, T. J. Hinrichs, C. Howie, P. R. Hyams, W. J. Kennedy, S. MacDonald, S. Manning, M. Migiel, J. M. Najemy, J. A. Peraino, S. Pinet, D. S. Powers, M. Raskolnikov, E. Rebillard, C. Robinson, C. Ruff, W. Sayers, S. Senderovich, S. M. Toorawa, D. X. Warner, M. L. Weiss, S. Zacher, Emeritus: A. M. Colby-Hall, J. J. John, C. V. Kaske, P. I. Kuniholm, W. Wetherbee.

## Undergraduate Study in Medieval Studies

Undergraduate students may pursue an undergraduate minor in medieval studies, for which they must complete five courses at the 2000 level or above in at least two different disciplines, of which up to two may also count toward their major. Students should seek out an advisor, and may wish to consult with the director. Those completing a minor will receive a notification on their transcripts and a certificate signed by the director and the dean of the college; students who are completing undergraduate minors are currently eligible for the Miller Scholarship offered by the Telluride Association, funding a year at the Central European University in Budapest, Hungary.

Students derive many other benefits from pursuing such a minor, as they do from taking courses in medieval cultures, languages, and literature generally. The Medieval Studies Program houses a lively undergraduate association, Quodlibet, which arranges frequent lectures on medieval topics and an annual celebratory reading of prose and poetry in many medieval languages. Cornell's students and scholars pursuing varied interests in these many realms constitute a strong and supportive community. Course work in medieval studies enhances the student's enjoyment and understanding of the artistic and material relics of the Middle Ages: Gregorian chant, illuminated manuscripts and stained glass windows, Gothic cathedrals, Crusader castles, and picturesque towns cramped within ancient walls. The student will discover the serious realities involved in, and

shaped by, Arthurian tales of knights and ladies, dungeons, dragons, and other marvels. Students can analyze and appreciate the horrors of the Black Death, triumphs in courtly love and pitched battle, swords and scimitars, caliphs and popes, fear of demons and djinns, and angels. The period saw many of the foundational choices that have, for good and ill, made the world what it is today. Many of our current challenges in the fields of law, human rights, attitudes toward power, authority, gender relations, and sexual mores derive from the ways in which these and other questions were formulated a millennium ago. Many of the courses listed by the Medieval Studies Program pertain specifically to these fields, as well as to the interdisciplinary combinations for which the program is noted.

### Medieval Languages

Medieval texts (like all others) become most lively and informative when read in the original, and Cornell fortunately offers many courses for students interested in acquiring the relevant skills: Medieval Latin, Old English, Middle English, Gothic, Old Saxon, Old High German, Middle High German, Old Norse-Icelandic, Old Irish, Middle Welsh, Old Occitan (Provençal), Old French, Medieval Spanish, Medieval Italian, Old Russian, Old Church Slavonic, Classical Arabic, Medieval Hebrew, Classical Chinese, and Classical Japanese.

Some medieval languages require study of a modern language (e.g., French for Old Occitan and Old French) or a classical language (Classical Latin for Medieval Latin) as background. Students interested in an undergraduate minor in medieval studies should begin the study of a medieval language as early as possible, so that they may be able to study texts in the original before they graduate. Students are advised to consult the sponsoring departments for information about the prerequisites for various medieval languages.

### Graduate Study

The Medieval Studies Program offers both an interdisciplinary and a literary comparative Ph.D. in medieval studies. Disciplinary fields of concentration offered within the Field of medieval studies are medieval archaeology, medieval history, medieval history of art, medieval literature, medieval music, medieval philology and linguistics, and medieval philosophy. Information about the graduate program in medieval studies is available from the field coordinator (medievalst@cornell.edu), and at *Cornucopia*, the program's web site (www.arts.cornell.edu/medieval).

### Medieval Studies Courses: Graduate and Undergraduate

Courses in various aspects of medieval studies are offered every year in several cooperating departments, including Art History, Asian Studies, Classics, Comparative Literature, English, German Studies, History, Linguistics, Music, Near Eastern Studies, Philosophy, Romance Studies, Russian Literature, and by the Society for the Humanities. For descriptions, please see the home department. The current year's offerings are:

- ARTH 3300 Romanesque and Early Gothic Art and Architecture**  
Spring. 4 credits. C. Robinson.
- ARTH 4305 Looking for Love: Visual and Literary Cultures of Love in the Medieval Mediterranean 1100–1400 AD**  
Spring. 4 credits. C. Robinson.
- CHLIT 2213–2214 Introduction to Classical Chinese**  
2213, fall; 2214, spring. 3 credits each semester. D. X. Warner.
- CHLIT 4420 Tang Poetry: Themes and Contexts**  
Spring. 4 credits. D. X. Warner.
- CLASS 3625 Christianization of the Roman World (also HIST/NES 3625, RELST 3635)**  
Fall. 4 credits. E. Rebillard.
- CLASS 3750 Introduction to Dendrochronology (also ARKEO 3090, ARTH 3250)**  
Fall. 4 credits. S. Manning.
- CLASS 7682 Topics in Ancient History (also HIST 6300, JWST/NES 6642)**  
Spring. 4 credits. E. Rebillard.
- COML 4515/6515 Ariosto, Rabelais, Spenser (also ENGL/ROMS 4515/6515)**  
Fall. 4 credits. W. J. Kennedy.
- ENGL 2100 Medieval Romance: Voyage to the Otherworld**  
Fall. 4 credits. T. Hill.
- ENGL 2130 Cultures of the Middle Ages**  
Fall. 4 credits. S. Zacher.
- ENGL 2740 Scottish Literature**  
Fall. 4 credits. T. Hill and H. Shaw.
- ENGL 3080 Old Norse–Icelandic Literature in Translation**  
Spring. 4 credits. T. Hill.
- ENGL 3110/6110 Old English**  
Fall. 4 credits. S. Zacher.
- ENGL 3120/6120 Beowulf**  
Spring. 4 credits. T. Hill.
- ENGL 3190 Chaucer**  
Spring. 4 credits. M. Raskolnikov.
- ENGL 6151 Visionaries and Vision Literature in the Middle Ages**  
Fall. 4 credits. A. Galloway.
- ENGL 6190 Chaucer and Gower**  
Spring. 4 credits. A. Galloway.
- FREN 3280 Medieval Francophone Literature**  
Fall. 4 credits. C. Howie.
- FREN 4390 Poems of Force: Medieval Epic**  
Spring. 4 credits. C. Howie.
- GERST 4050–4060 Introduction to Middle High German**  
4050, fall; 4060, spring. 4 credits each term. A. Groos.
- ITAL 3400 History of the Grotesque**  
Fall. 4 credits. C. Howie.
- ITAL 4270/6270 Dante's Commedia**  
Spring. 4 credits. M. Migiel.

- LATIN 4202 Advanced Readings in Latin Literature**  
Spring. 4 credits. C. Brittain.
- LATIN 7271 Latin Graduate Seminar: Cicero's philosophical works**  
Fall. 4 credits. C. Brittain.
- LING 1109 English Words: Histories and Mysteries**  
Spring. 3 credits. W. Harbert.
- LING 2217 History of the English Language to 1300 (also ENGL 2170)**  
Fall. 4 credits. W. Harbert.
- LING 2218 History of the English Language since 1300 (also ENGL 2180)**  
Spring. 4 credits. W. Harbert.
- LING 2236 Introduction to Scottish Gaelic**  
Spring. 3 credits. W. Harbert.
- LING 4417 History of the Russian Language (also RUSSA 4401)**  
Spring. 4 credits. W. Browne.
- LING 6645 Gothic**  
Fall. 4 credits. W. Harbert.
- [MEDVL 4103/6103 Survey of Medieval Latin Literature (also LATIN 4213/7213)]**  
Fall. 4 credits. Next offered 2011–2012. This survey is designed to introduce students to characteristic genres and discourses of Medieval Latin.]
- [MEDVL 4201/6201 Topics in Medieval Latin Literature (also LATIN 4223/7223)]**  
Spring. 4 credits. Next offered 2010–2011.]
- [MEDVL 6102 Latin Paleography (also LATIN 7222)]**  
Spring. 4 credits. Next offered 2011–2012. Latin Paleography will be devoted to approximately equal measure to the dating, localization, and reading of scripts, and to codicological methods in the study of medieval manuscripts.]
- [MEDVL 7770 Medieval Studies Proseminar]**  
Fall. 2 credits. Staff. Next offered 2010–2011. This course is designed to introduce graduate students to some of the bibliography and approaches available for studying the Middle Ages.]
- MEDVL 8010 Directed Study—Individual**  
Fall and spring. 2–4 credits. Staff.
- MEDVL 8020 Directed Study—Group**  
Fall and spring. 2–4 credits. Staff.
- NES 2655 Introduction to Islamic Civilization (also HIST 2540, RELST 2655)**  
Fall. 3 credits. D. Powers.
- NES 2754 Introduction to Near Eastern Civilizations: The Literature of the Princes, Prophets, and Poets (also COML 2754)**  
Fall. 3 credits. S. Toorawa.
- NES 3212 Quran and Commentary (also RELST 3212)**  
Fall. 4 credits. D. Powers.
- NES 3677 Search for the Historical Muhammad (also HIST/RELST 3677)**  
Spring. 4 credits. D. Powers.

**NES 3723/6723 The Arabian Nights: Then and Now (also COML 3723/6723)**

Fall. 4 credits. S. Toorawa.

**NES 4639 Readings in Arabic Historical Texts (also RELST 4639)**

Spring. 4 credits. D. Powers.

**PHIL 4002/6020 Latin Philosophical Texts (also LATIN 7262, RELST 6020)**Fall and spring. Variable credit.  
S. MacDonald and C. Brittain.**PHIL 6210 Seminar in Medieval Philosophy**

Fall. 4 credits. S. MacDonald.

**SHUM 4824 Medieval Translation in Motion (also DANCE 4384, ENGL 4072, FREN 4824)**

Fall. 4 credits. S. Chaganti.

**SHUM 4931 Vitality and Power in China (also ASIAN 4429, HIST 4931, RELST 4931, STS 4911)**

Spring. 4 credits. T. J. Hinrichs.

**SPAN 2170 Early Hispanic Modernities**

Spring. 4 credits. S. Pinet.

**SPAN 2340 Faith, Love and Adventure in Medieval Spain**

Fall. 4 credits. S. Pinet.

**SPAN 3540 Stages: Theater of Early Modern Spain**

Spring. 4 credits. S. Pinet.

**SPAN 6470 Theory of the Novel: Modernity's Subjects (1300-1600)**

Fall. 4 credits. S. Pinet.

**MUSIC**

R. Sierra, chair; C. Johnston Turner, director of undergraduate studies (340 Lincoln Hall, 255-3712); J. Peraino, director of graduate studies (116 Lincoln Hall, 255-5059); X. Bjerken, B. Boettcher, K. Ernste, T. Feeney, A. Groos, J. Haines-Eitzen, R. Harris-Warrick, M. Hatch, H. Jancaitis, J. Kellock, C. Kim, J. Lin, M. Marsit, J. May, P. Merrill, S. Pond, A. Richards, S. Stucky, S. Tucker, J. Webster, M. Yampolsky, D. Yearsley, N. Zaslav. Emeritus: M. Bilson, J. Hsu, K. Husa, S. Monosoff, R. Palmer, D. Rosen, T. Sokol, M. Stith

Office: 255-4097

Web site: www.music.cornell.edu

**Musical Performance and Concerts**

Musical performance is an integral part of Cornell's cultural life and an essential part of its undergraduate academic programs in music. The department encourages music-making through its offerings in individual instruction and through musical organizations and ensembles that are directed and trained by members of the faculty. Students from all colleges and departments of the university join with music majors in all of these ensembles:

**Vocal ensembles**

- Chamber Singers
- Chorale
- Chorus
- Glee Club
- World Music Choir

**Instrumental ensembles**

- Chamber Music Ensembles
- Chamber Orchestra
- Symphony Orchestra

- Jazz Ensembles
- Jazz Combos
- Chamber Winds
- Wind Ensemble
- Wind Symphony
- Gamelan Ensemble
- Middle Eastern Music Ensemble
- World Drum and Dance Ensemble
- Steel Band
- Percussion Ensemble

Information about requirements, rehearsal hours, and conditions for academic credit can be found in the following listings for the Department of Music. Announcements of auditions are posted during registration each fall semester and, where appropriate, each spring semester as well.

The university is also home to many student-run musical organizations not affiliated with the Department of Music, including the Big Red Marching Band and Big Red Pep Band, and several a cappella groups. Information is available directly from each group.

The Department of Music and the Faculty Committee on Music sponsor more than 100 formal and informal concerts each year by Cornell's ensembles, faculty, and students and by distinguished visiting artists. The great majority of these concerts are free and open to the public. Lectures and concerts are listed at www.music.cornell.edu. Additional information is available through the events office (255-4760).

**Nonmajors**

In addition to its performing, instructional, and concert activities, the department offers numerous courses for nonmajors, many of which carry no prerequisites and presuppose no previous formal training in music. Consult the following course listings, and for further information consult Professor C. Johnston Turner, director of undergraduate studies (255-3712), or the department office, 101 Lincoln Hall (255-4097).

**The Minor**

For those non-majors across the university whose involvement with the music department forms an essential aspect of their undergraduate study, the undergraduate minor in Music gives both formal recognition and structural coherence to their musical studies. The Music minor is designed to provide for breadth by requiring involvement in each of the three principal subdisciplines (music theory, music history, and musical performance), while at the same time permitting enough flexibility that each student can emphasize the area or areas that interest him or her most.

The following courses are required to fulfill the undergraduate minor in Music:

1. One course in music theory: MUSIC 1101 for 3 credits, 1105 for 3 credits, or 2101/2103 for 5 credits. A student given Advanced Standing in place of MUSIC 2101/2103 should take a higher-numbered theory course; placement alone cannot fulfill this requirement.
2. One course in music history and culture, drawn from courses listed in *Courses of Study* as Music in History and Culture (3 credits) and those listed as Music History Courses for Majors and Qualified Non-Majors (3-4 credits).

3. Four credits in performance, drawn from those courses listed as Musical Instruction (i.e., private lessons in voice or another instrument), or Musical Organizations and Ensembles, or both. Since these are 1- and 2-credit courses, students may achieve their total of 4 credits in various ways: two semesters of 2-credit lessons, four semesters of 1-credit ensembles, or a combination of the two.
4. In addition to these 10-13 credits, an additional 8 credits of elective courses from any Music subdiscipline, including Electroacoustic Music, of which at least 3 credits must be in a classroom (not performance) course.

**The Major**

The major carries the study of music to an advanced level through the integration of performance, music theory, and music history. It is designed to accommodate both students who are oriented toward eventual graduate or professional work in music and those who wish to take a more general approach, often in conjunction with a major in another department.

Students contemplating a major in music should arrange for placement examinations and advising in the department as early as possible, preferably during the freshman orientation period. Information is available from the director of undergraduate studies. Prerequisites for admission to the major are completion of MUSIC 2102 and 2104, preferably by the end of the freshman year, with an overall grade of B- or better in each course. In consultation with the director of undergraduate studies, students are expected to have chosen an advisor from among the department faculty before acceptance into the major; admission to the major is decided by the faculty as a whole. Students majoring in music then design their course of study with their advisor.

Music majors must complete the Core Curriculum plus at least two electives. The electives allow students to focus in specific areas, such as composition, performance, jazz studies, vernacular music, Western art music, or Asian music. Students may, however, choose electives that reflect a more broadly based study. Those intending to pursue graduate study or professional work in music are advised to take further courses in addition to the two required electives.

The Core Curriculum consists of courses:

1. in music theory: MUSIC 3101, 3102, 3103, 3104
2. in music history: MUSIC 3201, 3202, 3211, 4211
3. in performance: four semesters of participation in a musical organization or ensemble sponsored by the department of music (MUSIC 3601 through 3634 and 4601 through 4651)

Electives: at least 8 credits from the following:

1. in music theory: courses among the theory listings above 3104
2. in music history: MUSIC 3222 through 3901, or 4301 and above.
3. in performance: MUSIC 3502 or 4501

**Honors.** The honors program in music is intended to provide special distinction for the department's ablest undergraduate majors.

Qualified students are invited to become candidates by the faculty in the second semester of their junior year. As soon as possible thereafter, the student forms a committee of three or more faculty members to guide and evaluate the honors work. In their senior year, candidates enroll in MUSIC 4911–4912 with the chair of the honors committee as instructor. Candidates are encouraged to formulate programs that allow them to demonstrate their musical and scholarly abilities, culminating in an honors thesis, composition, or recital, to be presented not later than April 1 of the senior year. An oral examination on the honors project will be administered by the candidate's committee not later than April 20. The level of honors conferred is based primarily on the candidate's performance in the honors program, and secondarily on the candidate's overall record in departmental courses and activities.

### Computing in the Arts Undergraduate Minor

A minor in Computing in the Arts with an emphasis on music is available both to music majors and to students majoring in other subjects. For more information, please consult [www.cis.cornell.edu/ComputingArts](http://www.cis.cornell.edu/ComputingArts), or contact the director, Professor Graeme Bailey.

### Distribution Requirement

College of Arts and Sciences students may apply either one or two music department courses toward the distribution requirement in Literature and the Arts (LA) or Cultural Analysis (CA), as noted. Neither first-year seminars nor advanced placement credit count toward this requirement.

If one music course is counted for distribution, it must carry at least 3 credits, and it may not be in musical performance (MUSIC 3501, 3502, or 4501) or in organizations and ensembles (MUSIC 3601 through 3634 and 4601 through 4651). Any two of the 2-credit courses MUSIC 3112, 3113, 3114 count as one course for this purpose.

If two music courses are counted for distribution in LA, they must total at least 6 credits, and at least one of the courses must be academic (as described in the preceding paragraph), not performance-oriented. The second "course," however, may comprise **either** up to 4 credits earned in performance (MUSIC 3501, 3502, or 4501) or up to 4 credits earned in organizations and ensembles (MUSIC 3601 through 3634 and 4601 through 4651), but not both.

### Facilities

**Music Library.** The Sidney Cox Library of Music and Dance in Lincoln Hall has an excellent collection containing periodicals, books, scores, parts, sound and video recordings, microforms, rare materials, and electronic resources. Its depth and breadth serve the needs of a wide variety of users on the campus and its listening and video viewing facilities are open to all members of the Cornell community.

**Concert Halls.** The Department of Music sponsors more than 100 concerts annually. Cornell's principal concert halls are Bailey Hall Auditorium (about 1,400 seats), Sage Chapel (about 800), and Barnes Hall Auditorium (about 280).

### Rehearsal Spaces and Practice Rooms.

Departmental ensembles rehearse primarily in Lincoln Hall, Barnes Hall, and Sage Chapel. Twenty-six studios in Lincoln Hall are available for individual practice by pianists, vocalists, and instrumentalists who are members of the Cornell community. Of these, seven have grand pianos, six have upright pianos, and two have percussion instruments.

For information about access to the practice rooms, see [www.music.cornell.edu/performing/practice-rooms](http://www.music.cornell.edu/performing/practice-rooms) or contact the department office.

**Instruments.** Six concert grand pianos are available for performances in the various concert halls, plus several historical keyboard instruments, including fortepianos, harpsichords, and clavichords. Four distinctive organs are available to qualified individuals for lessons and practice. In addition, the music department owns a limited number of string, wind, and percussion instruments that may be rented by members of the department's ensembles.

### Cornell Electroacoustic Music Center (CEMC).

The Cornell Electroacoustic Music Center comprises four project studios, a 14-workstation teaching lab in the Music Library, and a primary multichannel studio. Several live performance and recording rigs are also available, from hand-held to solid state. A combination of commercial and open-source software solutions service an array of student and faculty interests, including sound manipulation and sound spatialization, live performance, multimedia, intelligent music systems (adaptive and algorithmic composition), music notation, sound art and experimentation, and high-resolution recording. The center operates its own web server with space for web hosting, data backup, and remote login. CEMC's facilities are state-of-the-art and can accommodate almost any creative inclination.

## Courses

### Music Theory

Students contemplating the music major are strongly advised to take MUSIC 2101, 2102, 2103, and 2104 in the freshman year; in any case MUSIC 2102 and 2104 must be completed no later than the end of the sophomore year.

### MUSIC 1100 Elements of Musical Notation

Fall or spring, weeks 2–5. 1 credit.

Corequisite: any 3-credit music course and permission of instructor. Staff.

This four-week course, given at the beginning of each semester, fulfills the requirement of basic pitch, rhythm, and score-reading skills needed for some introductory courses and 2000-level courses with prerequisites.

### MUSIC 1101 Fundamentals of Music (LA-AS)

Spring. 3 credits. No previous training in music required. M. Hatch.

An introduction to the theory of music from around the world: the structures of melody and rhythm (pulse, meter, scales, modes, texture, timbre, harmony, form) and the influences of audiences, music technologies (including instruments), reasons, and contexts for music making on instrumental and vocal music from classical, folk, traditional, and popular music of Asia, Africa, Europe, and the Americas. Extensive listening and video examples.

### MUSIC 1105 Introduction to Music Theory (LA-AS)

Fall. 3 credits. Recommended: experience in reading music; students may take MUSIC 1100 concurrently. J. Webster.

An elementary, self-contained introduction to the theory of Western tonal music. Fundamental musical techniques, theoretical concepts, and their application. Intervals, scales, triads; basic concepts of tonality and form; analysis of representative works. Coverage primarily of "classical" (concert) music, with some attention to popular music and jazz.

### MUSIC 1466 Physics of Musical Sound (also PHYS 1204) (PBS)

Spring. 3 credits. K. Selby.

For description, see PHYS 1204.

### MUSIC 2101 Tonal Theory I (LA-AS)

Fall. 3 credits. Prerequisites: admission by departmental diagnostic exam and concurrent enrollment in or previous credit for MUSIC 2103, or equivalent. Intended for students expecting to major in music and other qualified students. Staff.

Detailed study of the fundamental elements of modal and tonal music: rhythm, scales, intervals, triads; melodic principles and two-part counterpoint; diatonic harmony and four-part voice leading; basic formal structures. Study engages different repertoires, including Western art music as well as non-Western and popular traditions.

### MUSIC 2102 Tonal Theory II (LA-AS)

Spring. 3 credits. Prerequisites: MUSIC 2101 and 2103 or equivalent; concurrent enrollment in or previous credit for MUSIC 2104. Intended for students expecting to major in music and other qualified students. A grade of B– or better in MUSIC 2102 is required for admission to music major. Staff.

Continued study of voice leading and harmonic progression, including diatonic modulation; analysis of binary and ternary forms as well as jazz, blues, and pop phrase models.

### MUSIC 2103 Musicianship I

Fall. 2 credits. Pre- or corequisite: MUSIC 2101. Intended for students expecting to major in music and other qualified students. Staff.

Sight singing: diatonic melodies in treble, alto, and bass clefs. Keyboard: scales, triads, seventh chords, short diatonic chord progressions. Dictation: intervals, rhythms; short diatonic melodies; short diatonic chorale phrases. Score reading: two parts using treble, alto, and bass clefs. Musical terms: tempo markings and rhythmic terminology.

### MUSIC 2104 Musicianship II

Spring. 2 credits. Pre- or corequisite: MUSIC 2102. Intended for students expecting to major in music and other qualified students. A grade of B– or better in MUSIC 2104, and failure in no individual musicianship components of the course, are required for admission to the music major. Staff.

Sight singing: longer melodies in three clefs, including diatonic modulation. Keyboard: diatonic chord progressions and sequences. Dictation: intervals, rhythms; longer melodies; chorale phrases with diatonic modulation. Score reading: three parts using treble, alto, and bass clefs. Transcriptions of pop, jazz, and other genres.

**MUSIC 3101 Tonal Theory III (LA-AS)**

Fall. 3 credits. Prerequisites: MUSIC 2102 and 2104 or equivalent. Corequisite: MUSIC 3103. Staff.

Continuation of diatonic and introduction to chromatic harmony; species counterpoint; composition in small forms.

**MUSIC 3102 Tonal Theory IV (LA-AS)**

Spring. 3 credits. Prerequisites: MUSIC 3101 and 3103 or equivalent. Corequisite: MUSIC 3104. Staff.

Study of and composition in larger forms, including sonata form; systematic study of chromatic harmony, voice-leading, and modulation; composition in chromatic style.

**MUSIC 3103 Musicianship III**

Fall. 2 credits. Pre- or corequisite: MUSIC 3101. Staff.

Sight singing: melodies with chromaticism in treble, alto, tenor, and bass clefs. Keyboard: diatonic modulation, chromatic chords.

Dictation: melodies with modulation; chorale phrases with secondary dominants and other chromatic chords. Score reading: four parts using treble, alto, tenor, and bass clefs. Musical terms: orchestral ranges, terms, clefs, and transpositions.

**MUSIC 3104 Musicianship IV**

Spring. 2 credits. Pre- or corequisite: MUSIC 3102. Staff.

Sight singing: melodies in four clefs, including modality and chromatic modulation. Keyboard: chromatic sequences, chromatic modulations, improvised modulations employing diatonic pivot chords. Dictation: intervals, rhythms, short melodies, and short, diatonic chorale phrases. Score reading: four parts, including transposing instruments. Musical terms: other terms in French, German, and Italian.

**MUSIC 3111 Jazz Improvisation I**

Fall. 3 credits. Prerequisite: MUSIC 2101 or permission of instructor. P. Merrill.

An introduction to fundamental jazz theory, technique, and applied skills.

**[MUSIC 3112 Jazz Improvisation II]**

Fall. 3 credits. Prerequisite: MUSIC 3111. Next offered 2010–2011. P. Merrill.

Continuation of jazz theory, technique, and applied skills.]

**[MUSIC 3113 Jazz Improvisation III]**

Spring. 3 credits. Prerequisite: MUSIC 3112. Next offered 2010–2011. P. Merrill.

Class work and assignments emphasize Coltrane and post-Coltrane harmony, advanced rhythmic development, augmented vocabulary, and an introduction to playing “free.”]

**MUSIC 3115 Jazz Piano**

Spring. 3 credits. Prerequisite: MUSIC 2101 or permission of instructor. Next offered 2010–2011. P. Merrill.

An introduction to jazz keyboard technique, intended primarily for jazz instrumentalists with little or no keyboard experience and pianists with little or no jazz experience.

**[MUSIC 4101 Counterpoint # (LA-AS)]**

Spring. 4 credits. Prerequisite: MUSIC 2101 or permission of instructor. Next offered 2010–2011. S. Stucky.]

**[MUSIC 4102 Topics in Music Analysis (also MUSIC 6101) (LA-AS)]**

Spring. 4 credits. Prerequisite: MUSIC 2101 or permission of instructor. Next offered 2010–2011. J. Webster.]

**[MUSIC 4103 Topics in Post-Tonal Theory and Analysis (also MUSIC 7102) (LA-AS)]**

Spring. 4 credits. Prerequisites: MUSIC 3102 and 3104. Next offered 2011–2012. Staff.]

**[MUSIC 4111 Composition (LA-AS)]**

Spring. 4 credits. Prerequisite: MUSIC 3101 or permission of instructor. Next offered 2010–2011. S. Stucky.

Principles of composition, approached through traditional forms (variation, sonata) and through the imitation of specific 20th-century styles. May be taken more than once for credit, by permission and if taught by a different instructor.]

**[MUSIC 4121 Conducting (LA-AS)]**

Fall. 4 credits. Prerequisite: MUSIC 3101 or equivalent. Next offered 2011–2012.

C. Johnston Turner.

Covers fundamentals of score reading, score analysis, rehearsal procedures, and conducting technique; instrumental and choral contexts.]

**[MUSIC 4122 Orchestration (LA-AS)]**

Spring. 4 credits. Prerequisite: MUSIC 3101 or permission of instructor. Next offered 2010–2011. R. Sierra.

Orchestration based on 19th- and 20th-century models.]

**[MUSIC 4123 Jazz Arranging (LA-AS)]**

Fall. 4 credits. Prerequisite: MUSIC 3111 or permission of instructor. Next offered 2011–2012. P. Merrill.

A survey of jazz arranging techniques for the big band.]

**Music in History and Culture****MUSIC 1201 Hildegard to Handel # (LA-AS)**

Fall. 3 credits. Prerequisite: ability to read music or concurrent enrollment in MUSIC 1100. Next offered 2010–2011. R. Harris-Warrick.

The main trends in Western music from the beginnings of musical staff notation in the 10th century to the mid-18th century. Emphasis on the evolution of musical styles and the changing social, cultural, economic, and political conditions that gave rise to those styles. Topics include Gregorian chant, organum, Ars nova, Renaissance polyphony, the invention of opera, and the rise of instrumental music.

**MUSIC 1202 Monteverdi to Minimalism # (LA-AS)**

Fall. 3 credits. Prerequisite: ability to read music or concurrent enrollment in MUSIC 1100 or successful completion of another college-level music course. C. Johnston Turner.

**[MUSIC 1301 Introduction to World Music I: Africa and the Americas (also LSP 1301) @ (CA-AS)]**

Spring. 3 credits. No previous training in music required. Next offered 2010–2011. S. Pond.

This course centers on folk, popular, and traditional musical genres of the Western Hemisphere, particularly the African diaspora. It examines both the elements of musical styles and the features of society that influence music. Listening and writing assignments are major components of the course.]

**[MUSIC 1302 Introduction to World Music II: Asia (also ASIAN 1192) @ (CA-AS)]**

Spring. 3 credits. No previous training in music required. Next offered 2011–2012.

M. Hatch.

An exploration of folk, popular, and traditional musical genres from South, Southeast, and East Asia.]

**[MUSIC 1311 Popular Music in America: A Historical Survey (also AMST 1311) # (LA-AS)]**

Spring. 3 credits. Next offered 2010–2011. S. Pond.

This is a general introductory course addressing the broad range of styles described as popular music, as it has developed in the United States.]

**MUSIC 1312 History of Rock Music (also AMST 1312) (LA-AS)**

Spring. 3 credits. No previous training in music required. J. Peraino.

This course examines the development and cultural significance of rock music from its origins in blues, gospel, and Tin Pan Alley up to alternative rock and hip hop. The course concludes with the year 2000.

**MUSIC 1313 A Survey of Jazz (also AMST 1313) (LA-AS)**

Fall. 3 credits. No previous training in music required. S. Pond.

This course addresses jazz from two perspectives: the various sounds of jazz, as well as the historical streams—musical and cultural—that have contributed to its development. Listening and writing assignments are major components of the course.

**MUSIC 1341 Gamelan in Indonesian History and Cultures (also ASIAN 2245, VISST 2744) @ (LA-AS)**

Fall or spring. 3 credits. Prerequisite: permission of instructor. No previous knowledge of musical notation or performance experience necessary. C. Miller.

An introduction to Indonesia through its art. Elementary techniques of performance on the Indonesian *gamelan*; a general introduction to Indonesian history and cultures, and the sociocultural contexts for the arts there. Several short papers and one longer research report are required. Instruction by visiting Balinese musician.

**MUSIC 2221 Bach and Handel # (LA-AS)**

Spring. 3 credits. Prerequisite: any 3-credit music course or permission of instructor. D. Yearsley.

Both composers created oeuvres of incomparable richness and diversity. By examining in depth selected masterpieces, this course hopes to offer new perspectives on the continued relevance and vital rewards of their music, both instrumental and vocal, sacred and secular.

**MUSIC 2222 Haydn and Mozart # (LA-AS)**

Fall. 3 credits. Prerequisite: any 3-credit music course or permission of instructor. J. Webster.

A survey of the lives, works, and historical roles of Joseph Haydn and Wolfgang Amadeus Mozart.

**[MUSIC 2223 Beethoven # (LA-AS)]**

Fall. 3 credits. Prerequisite: any 3-credit music course or permission of instructor. Next offered 2011–2012. J. Webster.

A survey of Beethoven's life, works, and influence. While the primary focus is his musical style and its development, the course also covers social-cultural factors and the psychology and reception of genius.]

**[MUSIC 2224 Mozart in History, History in Mozart # (HA-AS)]**

Spring. 3 credits. Prerequisite: ability to read music or concurrent enrollment in MUSIC 1100 or successful completion of another college-level music course. Next offered 2010–2011. N. Zaslaw.

An exploration of the phenomenon that is Wolfgang Amadè Mozart, using historical documents to contextualize his life and works while using the extensive documentation of his life and works to learn about history.]

**[MUSIC 2231 Musical Romantics # (LA-AS)]**

Spring. 3 credits. Prerequisite: ability to read music or concurrent enrollment in MUSIC 1100. Next offered 2011–2012. Staff.]

**[MUSIC 2241 Opera (also THETR 2730) # (LA-AS)]**

Spring. 3 credits. No prerequisite. R. Harris-Warrick.

Opera has been enthralling audiences for 400 years; this course explores the multiple facets of its appeal. Using seven operas as the focus—chosen from different periods, national traditions, and styles—the class will examine the texts that have been turned into operas, the musical conventions that have guided composers (or against which they have worked), and the decisions directors make when they put operas on stage. Each work will be seen as well as heard—either in a special screening or, at least once in the semester, in a live performance.

Students who have a strong background in music may wish to also enroll in MUSIC 3901, which involves an extra class-period per week where the music is discussed in greater detail. Permission of the instructor is required.

**[MUSIC 2242 The Orchestra and Its Music # (LA-AS)]**

Spring. 3 credits. Prerequisite: any 3-credit music course or permission of instructor. Next offered 2010–2011. N. Zaslaw.

The music of, and the social structures supporting, large instrumental ensembles in the Western world from the 16th century to the present.]

**[MUSIC 2501 Discovering Hip-Hop: Research and the Cornell Hip-Hop Collection (LA-AS)]**

Fall. 3 credits. Limited to 15 students. Prerequisite: permission of instructor. S. Pond.

The course addresses research issues and methodologies through the lens of Cornell's Hip-Hop Collection, a gift of collector and author Johan Kugelbert, which is housed in Cornell Library's Division of Rare and Manuscript Collections. The collection features a significant archive on the history of hip-hop and rap music, documenting its emergence in the Bronx in the 1970s and early 1980s. It includes sound recordings, a key photographic archive, textile art, books, magazines, and more than five hundred original flyers. The course provides students opportunities to gain new insights into hip-hop culture, while also introducing them to research and curatorial methodologies and goals.

**[MUSIC 3513 Music and Choreography (also DANCE 3530) (LA-AS)]**

Fall. 3 credits. Attendance at dance concerts and music concerts required. A. Fogelsanger.

For description, see DANCE 3530.

**[MUSIC 4511 Early Dance (also DANCE 4399)]**

Fall. 1 credit; may be repeated for credit. Next offered 2010–2011. R. L. and R. M. Harris-Warrick.

Topic: Baroque Dance. Introduces students to the basic movement vocabulary of dances from Western Europe during the Baroque period.]

**Music History Courses for Majors and Qualified Nonmajors****[MUSIC 2244 The Organ in Western Culture # (LA-AS)]**

Fall. 4 credits. Prerequisite: permission of instructor. Next offered 2010–2011. A. Richards and D. Yearsley.]

**[MUSIC 3201 Survey of Western Music I # (LA-AS)]**

Spring. 4 credits. Pre- or corequisite: MUSIC 2101/2103 or permission of instructor. J. Peraino.

A survey of Western music and its social contexts from the beginning of notation (circa 900) to 1700. Topics include sacred chant, secular song, polyphony, madrigals, early opera, and the development of independent instrumental music. The course emphasizes listening and comprehension of genres and styles, and is intended for music majors and qualified nonmajors.

**[MUSIC 3202 Survey of Western Music II # (LA-AS)]**

Fall. 4 credits. Pre- or corequisite: MUSIC 2102/2104 or permission of instructor. A. Richards.

A survey of Western music and its social contexts from 1700 to the present. Topics include the decline of church music, the rise of public concerts and opera, the evolution of the orchestra, and modernism in the 20th century. The course, which emphasizes listening and comprehension of genres and styles, is intended for music majors and qualified nonmajors.

**[MUSIC 3211 Proseminar in Musicology (LA-AS)]**

Spring. 4 credits. Prerequisite: MUSIC 3201–3202. D. Yearsley.

Introduction to methods in musicology, including historiography, criticism, approaches to vernacular and non-western musics, and gender studies.

**[MUSIC 3222 Opera and Culture (also GERST/THETR 3740) # (LA-AS)]**

Spring. 4 credits. Prerequisite: any 3-credit music course or proficiency in German or Italian. Next offered 2011–2012. A. Groos.]

**[MUSIC 3231 Topics in Western Art Music to 1750 #]**

Fall. 4 credits. Prerequisite: MUSIC 2102 or permission of instructor. Next offered 2011–2012. Staff.]

**[MUSIC 3232 Topics in Western Art Music 1750–Present]**

Spring. 4 credits. Prerequisite: MUSIC 2102 or permission of instructor. Next offered 2010–2011. Staff.]

**[MUSIC 3242 Culture of the Renaissance II (also ARTH 3420, COML/FREN/RELST 3620, HIST 3640) # (CA-AS)]**

Fall. 4 credits. Next offered 2010–2011. K. Long and W. J. Kennedy.]

**[MUSIC 3245 Words and Music (also GERST 3600) # (LA-AS)]**

Spring. 4 credits. A. Groos. For description, see GERST 3600.

**[MUSIC 3301 Topics in Popular Music and Jazz (LA-AS)]**

Fall. 4 credits. Prerequisite: MUSIC 2102/2104 or permission of instructor. Next offered 2010–2011. S. Pond.

This course addresses various topics, centering on the post–World War II years to ca. 1970. **Topic for 2008: Post–WWII Rhythm-and-Blues to Funk.** The course investigates the various sounds of black popular music in the post–World War II period, its antecedents, interactions with other popular musics, and influences on later developments, principally to the mid-1970s. The historical focus engages with R&B in terms of ethnicity, class, nationalism, racial politics, aesthetics, gender, and genre. The course is both reading and listening based, with opportunities for music-making as well. The course entails a significant writing component. It partially satisfies the Music major history requirement. Since the course addresses different topics in different years, it may be taken more than once for credit.]

**[MUSIC 3901 Supplemental Study in Music History]**

Fall or spring. 1 credit. Prerequisite: MUSIC 2101 or permission of instructor. Corequisite: enrollment in an approved 1000- or 2000-level 3-credit music history course. Staff.

Intended primarily for music majors, this option allows students enrolled in an approved 1000- or 2000-level 3-credit music history course to study the material at a more advanced level through supplementary reading, discussion, and writing, by arrangement with the professor. Advanced study of various topics in music history. Students enrolling in MUSIC 3901 also register for an approved 2000-level music history course and pursue independent research and writing projects.

**[MUSIC 4181 Psychology of Music (also PSYCH 4180/6180) (KCM-AS)]**

Fall. 3 or 4 credits, depending on whether student elects to do an independent project. C. L. Krumhansl.

For description, see PSYCH 4180.

**[MUSIC 4211 Senior Seminar]**

Fall. 4 credits. Prerequisite: MUSIC 3211. N. Zaslaw.

The possibilities and limitations of the study of historical performance practices. An investigation of one controversial aspect of the performance of music from each of the traditional music-historical periods of Western music, finishing with a comparative study of historical changes in the performance of Indonesian gamelan music.

**[MUSIC 4222 Music and Monstrous Imaginings # (LA-AS)]**

Spring. 4 credits. Prerequisite: ability to follow a musical score. Next offered 2010–2011. A. Richards.

Explores the monstrous and fantastical in musical, literary, and visual culture around 1800. Topics include theory of Fantastic, Uncanny, Gothic, and Grotesque.]

**[MUSIC 4231 Music and Queer Identity (CA-AS)]**

Spring. 4 credits. Next offered 2010–2011. J. Peraino.]

**[MUSIC 4232 Women and Music (CA-AS)]**  
Spring. 4 credits. Next offered 2011–2012.  
J. Peraino.]

**MUSIC 4301 Introduction to Ethnomusicology (also MUSIC 6301) @ (SBA-AS)**  
Spring. 4 credits. M. Hatch.  
For description, see MUSIC 6301.

### Electroacoustic Music Courses

**MUSIC 1421 Introduction to Computer Music (LA-AS)**

Fall. 3 credits. Limited enrollment.  
Recommended: ability to read music.  
K. Ernste.

A composition-based introduction to computer hardware and software for digital sound and digital media. Fundamentals of MIDI sequencing and other techniques for producing electroacoustic music. Each student creates several short compositions.

**MUSIC 1465 Computing in the Arts (also CS/CIS/ENGRI 1610, FILM 1750, PSYCH 1650) (LA-AS)**

Fall. 3 credits. G. Bailey.  
For description, see CS 1610.

**[MUSIC 2421 Computers in Music Performance (LA-AS)]**

Spring. 3 credits. Limited enrollment. Next offered 2010–2011. K. Ernste.

A course in live performance and real-time, interactive sound manipulation techniques.

**[MUSIC 3421 Scoring the Moving Image (LA-AS)]**

Spring. 4 credits. Limited enrollment. Next offered 2011–2012. K. Ernste.

A course in composing music for multimedia: film, animation, theater, dance, art, design, and/or games. MUSIC 3421 is appropriate as a continuation for those who have taken MUSIC 1421 or 2421, but is open to others by permission.]

**MUSIC 3431 Sound Design and Digital Audio (also DANCE/THETR 3680) (LA-AS)**

Fall and spring. 3 credits. W. Cross.  
For description, see THETR 3680.

**[MUSIC 3441 Interactive Performance Technology (also DANCE 3560, THETR 3690) (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
W. Cross and A. Fogelsanger.  
For description, see THETR 3690.]

### Independent Study and Honors

**MUSIC 4901 Independent Study in Music**

Fall or spring. 1–6 credits. Prerequisite: departmental approval; experience in proposed area of study. Staff.

Independent study affords students the opportunity to pursue special interests or research not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the independent course, must approve the proposed study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study; forms are available in the Office of Undergraduate Admissions and Advising, 55 and 172 Goldwin Smith Hall.

**MUSIC 4911–4912 Honors in Music**

Fall and spring. 8 credits per year.  
Prerequisite: senior honors candidates.  
Staff.

See "Honors" under "The Major" at the beginning of the MUSIC listings.

### Musical Instruction

Cornell faculty members offer individual instruction in voice, organ, harpsichord, piano and fortepiano, violin, viola, cello, percussion, and some brass and woodwind instruments to those students advanced enough to do college-level work in these instruments. Lessons are available by audition only. They may be taken either without credit (MUSIC 3501) or with credit (MUSIC 3502 or 4501). All students studying with Cornell faculty members must enroll in MUSIC 3501, 3502, or 4501. Instruments may sometimes be studied for noncredit or credit outside Cornell, but also by audition only (see MUSIC 3501–4501, Secs 8, 9, and 10). For more information, please go to [www.music.cornell.edu](http://www.music.cornell.edu).

**Lessons for beginners.** The Department of Music does not offer lessons for beginners, but can recommend teachers outside Cornell for those who wish to begin studying voice or an instrument.

**Auditions.** Auditions are held at the beginning of each semester for lessons for advanced students. Contact the music department office in 101 Lincoln Hall for information.

**Earning academic credit for lessons.** For every 4 credits earned in MUSIC 3502, the student must have earned, or currently be earning, at least 3 credits in another music course (excluding MUSIC 3502, 4501, 3601–3611, or 4601–4631). These 3 credits must be earned before, or simultaneously with, the first 2 credits in 3502; they cannot be applied retroactively. Only music courses taught at Cornell (or approved transfer courses from other colleges or universities) may be used to satisfy this requirement.

**Fees.** For information about the fee structure for lessons, see the department's web site or contact the music department office. All fees are nonrefundable once lessons begin, even if the course is subsequently dropped.

**Lessons taken outside Cornell.** Under certain conditions, advanced students may earn credit for lessons taken outside Cornell. An audition is required, and no credit can be granted for beginning instruction. For further information, read the description of MUSIC 3501, 3502, and 4501, Secs 8, 9, and 10, and contact the Music Department office.

**Scholarships.** Music majors receive a scholarship of up to the department's full lesson fee per semester. All scholarships are intended only for lessons in the student's primary performing medium. Scholarship/registration forms, available in the music department office, are to be returned to the office within the first three weeks of classes.

**MUSIC 3501, 3502, and 4501 Individual Instruction**

Prerequisite: advanced students only; may register after successful audition with instructor, or, if student needs to study outside Cornell, with appropriate faculty sponsor. Students should contact instructor or music department office for audition information. Students may register for these courses in successive semesters or years.

**MUSIC 3501**

Fall or spring. 0 credits each semester. See section listing below for instructors.

Students who pass a successful audition to study with Cornell faculty, but either wish to take only a half-hour lesson per week or cannot receive credit for lessons, must enroll in MUSIC 3501. S–U grades only.

**MUSIC 3502**

Fall or spring. 2 credits each semester. See section listing below for instructors. Students earn 2 credits each semester for a one-hour lesson (or two half-hour lessons) per week, accompanied by an appropriate practice schedule. Credit may be earned only in conjunction with academic music courses; see "Earning Academic Credit for Lessons," above. Letter grades only.

**MUSIC 4501**

Fall or spring. 4 credits each semester. See section listing below for instructors. Open only to undergraduates majoring in music and graduate students in music.

The section numbers listed below apply to MUSIC 3501, 3502, or 4501, depending on the instrument studied.

Sec 01 Voice. J. Kellock.\*

Sec 02 Organ. A. Richards and D. Yearsley.

Sec 03 Piano. X. Bjerken and Staff.

Sec 04 Harpsichord. A. Richards and D. Yearsley.

Sec 05 Violin or Viola. J. Lin.

Sec 06 Cello. J. Haines-Eitzen.

Sec 07 Percussion. T. Feeney.

Sec 08, 09, and 10 Individual Instruction Outside Cornell.

All the standard orchestral and band instruments, keyboard instruments, guitar, and voice may, under certain conditions, be studied for credit with outside teachers. This course is available primarily for the study of instruments not taught at Cornell and when there is limited enrollment in MUSIC 3501 and 3502. Prior approval and audition by a member of the faculty in the department are required, and credit may be earned only as described under "Earning academic credit for lessons," above. Additionally, a departmental petition must be completed by the end of the third week of classes. For information and a list of approved teachers, consult the department office, 101 Lincoln Hall.

\* Students taking voice lessons for credit are required to attend Prof. Kellock's weekly studio class.

### Musical Organizations and Ensembles

Students may participate in musical organizations and ensembles throughout the year. Permission of the instructor is required, and admission is by audition only (usually at the beginning of each semester), except that the World Music Choir and the Cornell Gamelan Ensemble are open to all students without prior audition. Registration is permitted in two of these courses simultaneously and students may register in successive years, but no student may earn more than 8 credits in these courses. Membership in these musical organizations and ensembles is also open to qualified students who wish to participate without earning credit. In that case, students should register for 0 credits with a pass/fail grade option.

**MUSIC 3602 Chorus**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. Fall: staff; spring: S. Tucker.

A treble-voice chorus specializing in music for women's voices and in mixed-voice repertory.

**MUSIC 3603 Glee Club**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. Fall: staff; spring: S. Tucker.

A male-voice chorus specializing in music for men's voices and in mixed-voice repertory.

**MUSIC 3604 Chorale**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition.

H. Jancaitis.

Study and performance of selected choral music for mixed voices.

**MUSIC 3610 Gamelan Ensemble**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: permission of instructor.

C. Miller.

Advanced performance on the Indonesian *gamelan*. Tape recordings of *gamelan* and elementary number notation are provided. Some instruction by visiting Balinese artist.

**MUSIC 3611 World Music Choir**

Spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester. Prerequisite: permission of instructor. Fall: staff; spring: S. Tucker.

A mixed-voice chorus whose repertoire is drawn from Africa, Central America, South America, the Caribbean, Eastern Europe, and Asia. Music reading skills are not necessary, but a good ear is essential.

**MUSIC 3612 World Drum and Dance Ensemble**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: permission of instructor.

T. Feeney.

WDDE focuses in 2009–10 on traditional music and dance of the Anlo-Ewe culture of southern Ghana. WDDE rehearses weekly for performance as ready throughout the semester. No prior experience is necessary, and all members of the group will sing, drum, and dance.

**MUSIC 3613 Cornell Steel Bands**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: audition with instructor.

T. Feeney.

The Cornell Steel Bands perform traditional music from Trinidad for steel pans, including calypso and soca, as well as repertoire expanding the boundaries of the instruments. The group includes the standard steel pan orchestra, as well as an "engine room" consisting of drumset, congas, irons (brake drums), and other percussion instruments.

One or more sections will form in 2009–10, dependent on demand and ability. The groups rehearse weekly, and perform as ready throughout the semester. Prior musical experience is necessary, though not limited to percussion, and participants must audition.

**MUSIC 3614 Middle Eastern Music Ensemble (also NES 3914)**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: permission of instructor.

G. Holst-Warhaft.

Performance of diverse musical traditions from the Middle East. Instruction in individual instruments (oud, ney, kanoun, and percussion) and group rehearsals, culminating in one or two performances per semester. Songs are taught in several languages, with the assistance of local language and diction teachers.

**MUSIC 3615 Jazz Ensemble II**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. P. Merrill.

Study and performance of classic and contemporary big band literature. Rehearsal once a week with one to two performances a semester.

**MUSIC 3621 Symphony Orchestra**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. C. Kim.

Study and performance of a broad repertoire of orchestral works from Beethoven to the present.

**MUSIC 3631 Wind Symphony**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. M. Marsit.

**MUSIC 3632 Music Leadership and Service**

Fall and spring. 4 credits per year.

Corequisite: membership in Wind Ensemble. C. Johnston Turner.

The goal of this music performance and service learning course is to provide the opportunity in which learning experiences address human and community needs, and to allow the necessary time for reflection on those experiences. The focus of the course is on musical and personal leadership within communities—from the local to the foreign and from the known to the unknown. Communities in this context are defined by the community of students and musicians within the wind ensemble, the local communities in Ithaca and other New York state schools, and school, conservatory, and municipal communities in Costa Rica.

**MUSIC 3633 Wind Ensemble**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition; previous background in percussion. C. Johnston Turner.

**MUSIC 3634 Percussion Ensemble**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: audition with instructor.

Corequisite: enrollment in a Cornell large ensemble (orchestras, wind ensemble/symphony, jazz bands, or choral group). Previous background in percussion is required. T. Feeney.

The Percussion Ensemble performs pieces from the growing percussion repertory, exploring the breadth and depth of its possibilities for percussionists. Concerts might involve collaborations with composers and other instrumentalists, improvisation, or student-initiated ideas for performance.

**MUSIC 4601 Chamber Singers**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition.

H. Jancaitis.

A mixed-voice chamber choir specializing in Renaissance and 20th-century music.

**MUSIC 4615 Jazz Ensemble I**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. P. Merrill.

Study and performance of classic and contemporary big band literature. Rehearsals twice a week with two to four performances per semester.

**MUSIC 4616 Jazz Combos**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. P. Merrill.

Study and performance of classic and contemporary small-group jazz.

**MUSIC 4621 Chamber Orchestra**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. C. Kim.

Study and performance of chamber orchestra works from the baroque period to the present.

**MUSIC 4631 Chamber Winds**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Corequisites: enrollment in a Cornell large ensemble (orchestra, wind ensemble/symphony, jazz band, or choral group), and permission of instructor. Coordinator: C. Johnston Turner.

Flexible instrumentation ensembles perform original woodwind, brass, and percussion music. The ensembles participate in Wind Symphony and Wind Ensemble concerts in addition to several chamber concerts throughout the year.

**MUSIC 4641 Instruction in Gamelan Instruments**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester. Limited enrollment. Prerequisite: permission of instructor. C. Miller.

Concentrated instruction for students in advanced techniques of performance on Indonesian *gamelan* instruments.

**MUSIC 4651 Chamber Music Ensembles**

Fall and spring. Either 0 credits, S–U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition.

Coordinator: M. Yampolsky.

Study and performance of chamber music works from duos to octets, for pianists, string, and wind players.

**Graduate Courses**

Open to qualified undergraduates by permission of instructor.

**[MUSIC 6101 Analytical Technique (also MUSIC 4102)]**

Spring. 4 credits. Next offered 2010–2011. J. Webster.]

**MUSIC 6201 Introduction to Bibliography and Research**

Fall. 4 credits. B. Boettcher.

This course explores the nature of the discipline and introduces the many types of bibliographic tools, both printed and electronic, needed to pursue research in music.

**MUSIC 6301 Introduction to Ethnomusicology**

Spring. 4 credits. M. Hatch.

This course introduces the terminology for and approaches to describing and analyzing the varieties of music in the cultures of the world. First, a survey of the repertoires of music that ethnomusicologists have recorded and written about and the methods that they have used. Then, tailored to the interests of each student in the class, a more systematic consideration of the music in one or another region or culture in the world.

**MUSIC 6420 Techniques for Computer Music**

Fall. 4 credits. Prerequisite: permission of instructor. K. Ernste.

A course on composing electroacoustic music with an emphasis on real-time performance, historical models, and aesthetics. Other topics dependent on students' backgrounds and interests.

**[MUSIC 6421 Electroacoustic Composition]**

Spring. 4 credits. Next offered 2010-2011. K. Ernste.

Intended principally for doctoral students in music composition but open to others by permission. Depending on students' backgrounds and interests, the course may include an introduction to electroacoustic composing, an emphasis on aesthetic issues associated with the field, interactivity and real-time performance, software instrument design, performance controllers, or other topics.]

**[MUSIC 7101 Topics in Tonal Theory and Analysis]**

Spring. 4 credits. Next offered 2011-2012. J. Webster.

Topic: Sonata—form theory.]

**[MUSIC 7102 Topics in Post-Tonal Theory and Analysis (also MUSIC 4103)]**

Spring. 4 credits. Next offered 2011-2012. Staff.]

**MUSIC 7111 Composition**

Fall and spring. 4 credits each semester. R. Sierra and S. Stucky.

**[MUSIC 7121 Advanced Orchestral Technique]**

Fall. 4 credits. Next offered 2011-2012. S. Stucky.

Intensive analysis of orchestral scores from the past hundred years, with an emphasis on modern instrumental techniques, gestures, and textures.]

**[MUSIC 7201 Seminar in Medieval Music]**

Fall. 4 credits. Next offered 2010-2011. J. Perraino.

Topic: The Music of the Troubadours and Trouvères. This course will familiarize the students with this extensive repertory of secular love songs, introducing the many genres, distinct notation, and issues of melodic and textual analysis, and performance practice issues].

**[MUSIC 7202 Seminar in Renaissance Music]**

Spring. 4 credits. Next offered 2010-2011. R. Harris-Warrick.]

**MUSIC 7203 Seminar in Baroque Music**

Spring. 4 credits. R. Harris-Warrick.

Topic: The operas of Jean-Philippe Rameau. This seminar investigates the multiple components (musical, textual, choreographic, scenographic) from which Rameau's operas

were constructed, as well as the aesthetic controversies that surrounded them.

**[MUSIC 7204 Seminar in Classical Music]**

Fall. 4 credits. Next offered 2010-2011. N. Zaslav.]

**MUSIC 7205 Seminar in Music of the Romantic Era**

Spring. 4 credits. J. Webster.

Topic: Instrumental music in the larger forms.

**MUSIC 7206 Seminar in Music of the 20th Century**

Spring. 4 credits. S. Stucky.

Topic: Lutoslawski.

**MUSIC 7211 Seminar in Performance Practice**

Fall. 4 credits. N. Zaslav.

Topic: The music of Mozart and his contemporaries.

**[MUSIC 7221 Mozart: His Life, Works, and Times]**

Fall. 4 credits. Next offered 2011-2012. N. Zaslav.]

**MUSIC 7223 Operatic States: Imagining Community in Music-Drama (also GERST 6420)**

Fall. 4 credits. A. Groos.

This seminar will explore how states and communities are represented in opera from the 18th century to the end of World War II. Discussions will begin with representations of the absolutist state in baroque opera, examining its preoccupation with paradigms of good and bad rulership before turning to attempts in operas such as *Die Zauberflöte* and *Fidelio* to imagine implications of the absolutist legacy for civil society and the emerging bureaucratic state. Other sessions will be devoted to 19th-century opera, focusing on responses to the French Revolution and the changing role of the masses and "the people," before turning to the years immediately before and during World War II, ranging from the Zeitoper of the 1920s to alternative musical universes (Strauss) and Viktor Ullmann's *Der König von Atlantis*, composed in Theresienstadt concentration camp.

**[MUSIC 7231 Music and Postmodern Critical Theory]**

Fall. 4 credits. Next offered 2011-2012. J. Perraino.]

**[MUSIC 7232 History and Criticism]**

Spring. 4 credits. Next offered 2010-2011. A. Richards.]

**MUSIC 7240 Film and Music**

Fall. 4 credits. D. Yearsley.

Topic: Film and music.

**[MUSIC 7301 Topics in Ethnomusicology]**

Spring. 4 credits. Also open to graduate students in anthropology, linguistics, psychology, sociology, Africana Studies, Asian Studies, and other cognate fields by permission of instructor. Next offered 2010-2011. S. Pond.]

**MUSIC 7501 Historical Performance**

Fall and spring. 4 credits each semester.

Prerequisite: permission of instructor. Staff. Lessons on the major instrument with supplementary study and research on related subjects.

**MUSIC 7901 Independent Study and Research**

Fall and spring. Credit TBA. Staff.

**MUSIC 9901 Thesis Research**

Fall and spring. Up to 6 credits each semester. TBA. S-U grades only.

Limited to doctoral students in music who have passed the Admission-to-Candidacy exam.

**NEAR EASTERN STUDIES**

K. Haines-Eitzen (chair), H. Al-Masri, R. Brann, Y. Chami, Z. Fahmy (director of undergraduate studies), I. Gocheleishvili, F. Hijazi, A. Karakaya-Stump, A. Kleinerman, C. Monroe, L. Monroe, D. I. Owen, J. Palmer, D. S. Powers (director of graduate studies), N. Scharf, S. Shoer, D. Starr (director of Program of Jewish Studies), S. M. Toorawa, A. Yavas, M. Younes. Joint faculty: G. Holst-Warhaft, C. Robinson

**The Department**

The Department of Near Eastern Studies (409 White Hall, 255-6275) offers courses in Near Eastern civilization including archaeology, history, religions, languages, and literatures. These course offerings treat the Near East from the dawn of history to the present and emphasize methods of historical, cultural, and literary analysis. Students are encouraged to take an interdisciplinary approach to the religions and cultures of the region and their articulation during antique, late antique, medieval, and modern times. For more information, please visit [www.arts.cornell.edu/nest/](http://www.arts.cornell.edu/nest/).

**The Major**

A major in Near Eastern Studies offers students the opportunity to explore the languages, literatures, cultures, religions, and history of the Near East/Middle East from antiquity to the modern day. The major is designed both to acquaint students broadly with the region and its cultures as well as to study a particular subfield in depth.

**Prerequisites**

- The applicant for admission to the major in Near Eastern Studies must have completed at least two Near Eastern Studies content courses, one of which can be a language course. Students are strongly encouraged to enroll in language courses and/or NES 2651 or 2754 either before signing into the major or early on in their major.
- Prospective majors must meet with the director of undergraduate studies before submitting a major application.
- To qualify as a major, a cumulative grade average of C or better is required.

**Major Requirements**

For students graduating in the Classes of 2006 or earlier, consult the department. The precise sequence and combination of courses chosen to fulfill the major is selected in consultation with the student's advisor. All majors must satisfy the following requirements (no course may be used to satisfy two requirements; S-U option not permitted):

1. Two years of one Near Eastern language or, in exceptional cases, one year of two Near Eastern languages

2. Nine 3- or 4-credit NES courses, which must include the following:
- NES 2651 Judaism, Christianity, and Islam or NES 2754 Introduction to Near Eastern Civilizations
  - NES 4560 Junior/Senior Proseminar: Theory and Method in Near Eastern Studies
  - Seven additional courses, of which
- i. three must fulfill temporal breadth, defined as: one course whose chronological parameters fall within the period 3000 BCE to 600 CE, one course whose chronological parameters fall within the period 600 CE to 1800 CE, and one course whose chronological parameters fall between 1800 CE and the present. The following are examples (a complete list may be obtained in the department office):

#### 3000 BCE to 600 CE

- NES 2623 Introduction to the Hebrew Bible
- NES 2629 Introduction to the New Testament
- NES 2644 Introduction to Ancient Judaism
- NES 2661 Ancient Seafaring
- NES 2666 Jerusalem through the Ages
- NES 3594 Gender, Sexuality, and the Body in Early Christianity ®
- NES 3623 Reinventing Biblical Narrative ®
- NES 3664 Ancient Iraq I
- NES 3665 Ancient Iraq II
- NES 3720 Women in the Hebrew Bible ®

#### 600 CE to 1800 CE

- NES 2214 Qur'an and Commentary
- NES 2556 Introduction to the Qur'an
- NES 2634 Muslims and Jews in Confluence and Conflict
- NES 2655 Introduction to Islamic Civilization
- NES 2673 History of the Middle East: 13th to 18th Centuries
- NES 3539 Islamic Spain ®
- NES 3651 Law, Society, and Culture in the Middle East
- NES 4618 Seminar in Islamic History ®

#### 1800 CE to the present

- NES 2635 Jews and Arabs in Contact and Conflict: The Modern Period
- NES 2674 History of the Modern Middle East: 19th to 20th Centuries
- NES 3685 Middle Eastern Cities ®
- NES 3693 History of Jews and Christians in the Modern Middle East
- NES 3697 History of the Israeli-Palestinian Conflict
- NES 3703 Cosmopolitan Alexandria ®
- NES 3719 Crime and Conflict in the Modern Arabic Novel

- ii. A maximum of three of these seven courses can be at the 2000 level; a minimum of four must be at the 3000 level or above.

- iii. One of the 3000-level or above courses must be a research seminar (courses are designated with ®) The following are examples (a complete list can be found in the department office):

3539 Islamic Spain: Culture and Society @ # (CA) ®

3594 Gender, Sexuality, and the Body in Early Christianity # (CA) ®

3685 Middle Eastern Cities: History, Society, and Culture @ # (HA) ®

4657 Formation of Islamic Law @ # (HA) ®

4727 New York, Paris, Baghdad: Poetry of the City) ®

- iv. Note: a maximum of two independent studies can be applied to the major; a maximum of two non-cross-listed courses may be applied to the major; a maximum of two courses may receive credit for more than one major; a maximum of 15 credits of relevant, departmentally approved course work taken overseas or at another university may be applied to the major.

For students graduating in the classes of 2006 or earlier, consult the department.

**Honors.** Each fall, a small number of highly qualified seniors enter the Near Eastern Studies Honors Program. The Honors Program is open to NES majors who have done superior work and who wish to devote a substantial part of their senior year to advanced, specialized, independent research and writing of a thesis.

**Note well:** Successfully completing an honors thesis will require sustained interest, exceptional ability, diligence, and enthusiasm. Students must also take two honors courses (NES 4998 in fall and NES 4999 in spring), in addition to the regular major requirements. While admission to the Honors Program and completion of a thesis do not guarantee that students will be awarded honors in Near Eastern Studies, most students find the experience as intellectually rewarding as it is rigorous.

**Requirements.** In order to be considered for the Honors Program, candidates must fulfill all of the following requirements:

- Minimum grade point average of 3.5 in the Near Eastern Studies major;
- Superior performance overall at Cornell (minimum 3.3 GPA);
- Completion of at least four semesters or equivalent in a relevant Near Eastern language;
- Satisfactory completion of an NES research paper ("®" course);
- Completion of at least one course in the subfield relevant to the proposed thesis (e.g., early Islamic history, modern Hebrew literature, etc.);
- Prospective honors students are **strongly encouraged** to take NES 4560 (NES Proseminar) in their **junior year**.

**Study abroad.** Students are encouraged to consult with their advisor about options and eligibility to study abroad. With appropriate advance consultation and approval upon return, NES will accept credits earned abroad toward the major. Students are reminded that

the College of Arts and Sciences requires that they carry a minimum of 15 credits during a semester abroad.

### First-Year Writing Seminars

For descriptions, consult the John S. Knight Institute brochure for times, and instructors.

### Language Courses

#### Arabic

#### NES 1201-1202 Elementary Arabic I and II (also ASRC 1104/1105)

1201, fall; 1202, spring or summer. 4 credits each semester. Limited to 18 students per sec. Prerequisite: for NES 1202, NES 1201 or permission of instructor. M. Younes and staff.

Provides a thorough grounding in all language skills: listening, speaking, reading, and writing. It starts with spoken Arabic and gradually integrates Modern Standard Arabic in the form of listening and reading texts. Emphasis is on learning the language through using it in meaningful contexts. Students who successfully complete the two-semester sequence are able to (1) understand and actively participate in simple conversations involving basic practical and social situations (e.g., introductions, greetings, school, home and family, work, simple instructions); (2) read Arabic material of limited complexity and variety (e.g., simple narrative and descriptive texts, directions); (3) write notes and short letters describing an event or a personal experience. An important objective of the course is to familiarize students with basic facts about the geography, history, and culture of the Arab world.

#### NES 1203-2200 Intermediate Arabic I and II (also ASRC 1106/2101)

1203, fall; 2200, spring or summer. 4 credits each semester. *NES 2200 @ satisfies Option 1.* Limited to 18 students per sec. Prerequisites: for NES 1203, one year of Arabic or permission of instructor; for NES 2200, NES 1203 or permission of instructor. Letter grades recommended. M. Younes and staff.

Sequel to NES 1201-1202. Continued development of the four language skills through extensive use of graded materials on a wide variety of topics. Increased attention is given to developing native-like pronunciation and grammatical accuracy, but the main focus is on developing communication skills. The student who successfully completes 2200 is able to: (1) understand and express himself or herself in Arabic in situations beyond the basic needs; (2) read and comprehend written Arabic of average difficulty; (3) write a letter, a summary of a report, or a reading selection. An appreciation of Arabic literature and culture is sought through the use of authentic materials.

#### [NES 2203 Elementary Arabic for Native Speakers

Spring. 4 credits. *Satisfies Option 1.* Prerequisite: fluency in a spoken Arabic dialect. Next offered 2010-2011. M. Younes.]

#### NES 2204 Introduction to Quranic Arabic (also ASRC 2106, RELST 2204) (LA-AS)

Spring. 4 credits. Prerequisite: knowledge of Arabic alphabet. H. Al-Masri.

This course is designed for students who are interested in reading the language of the Qur'an with accuracy and understanding. The first week (4 classes) will be devoted to an introduction of the history of the Qur'an: the revelation, collection, variant readings, and establishment of an authoritative edition. The last week will be devoted to a general overview of "revisionist" literature on the Qur'an. In the remaining 12 weeks, we will cover all of Part 30 (Jus' Amma, suuras 78-114) and three suuras of varying length (36, 19, and 12). We will start with the shortest suuras and move gradually to longer ones. The Suuras will be presented and analyzed, and new vocabulary and grammatical structures will be discussed, explained, and practiced systematically. Each lesson will include, in addition to the text of the suura, word-building exercises devised to facilitate the acquisition and retention of new vocabulary. At the end of the semester, the successful student will have mastered a working vocabulary of between 1500 and 2000 words, correct pronunciation, and the most commonly used grammatical structures. In addition, the course will provide the student with a firm foundation on which to build advanced study of Classical Arabic.

**NES 3201-3202 Advanced Intermediate Arabic I and II (also ASRC 3100-3101) @**

3201 fall; 3202, spring. 4 credits each semester. *NES 3201 satisfies Option 1.* Limited to 15 students. Prerequisite: for NES 3201, NES 2200 or permission of instructor; for NES 3202, NES 3201 or permission of instructor. Letter grades recommended. M. Younes and staff. Introduces students to authentic, unedited Arabic language materials ranging from poems, short stories, and plays to newspaper articles dealing with social, political, and cultural issues. Emphasis is on developing fluency in oral expression through discussion of issues presented in the reading selections. There is more focus on the development of native-like pronunciation and accurate use of grammatical structures than on elementary and intermediate Arabic. A primary objective of the course is the development of writing skill through free composition exercises in topics of interest to individual students.

**NES 3203-3204 Current Events in Arabic Media @ (CA-AS)**

3203, fall; 3204, spring. 4 credits. F. Hijazi. In this course students will be introduced to authentic, unedited Arabic language materials from Arabic newspapers, magazines, TV broadcasts and interviews, and other on-line media. The topics covered will include, among other things, politics, economics, business, sports, and women's issues. Students can suggest other topics that interest them to the teacher. Emphasis will be on developing fluency in oral and written expression through discussions, debates, presentations, and written work. The order of activities for each topic will be: reading or listening to a selection before coming to class, class discussion and/or debate, an oral presentation by the students, and, finally, a written homework assignment about the same topic. All activities are conducted entirely in Arabic. There will be more focus on the development of native-like pronunciation and accurate use of grammatical structures than at the lower levels.

**[NES 4203 Readings in Arabic Poetry (LA-AS)]**

Fall. 4 credits. Prerequisite: NES 3202, a 4000-level NES Arabic course, or permission of instructor. Next offered 2010-2011. S. M. Toorawa.]

**NES 4206 Structure of the Arabic Language (also LING 4416) @ (KCM-AS)**

Spring. 4 credits. Prerequisite: 1 year of Arabic or linguistic background. Staff. The course consists of a brief history of Arabic and its place in the Semitic language family, the sociolinguistic situation in the Arab world (diglossia), Arabic phonology (sounds, emphasis, syllable structure, and related processes), morphology (verb forms and derivational patterns), and syntax (basic sentence structures, cases, and moods).

**[NES 4211 Readings in Arabic Literature # @ (LA-AS)]**

Fall. 4 credits. Prerequisite: NES 3202, a 4000-level Arabic course, or permission of instructor. Next offered 2010-2011. S. M. Toorawa.]

**Intensive Arabic Program (IAP)**

Modeled in part on the FALCON program in Chinese at Cornell University, the Intensive Arabic Program is designed to help students attain proficiency in Arabic in both its spoken and written forms in a condensed period of time. The program consists of three phases: (1) The first phase covers the equivalent of elementary Arabic I and II, and can be taken during the fall and spring semesters of the academic year, or as part of the Arabic summer intensive program. (2) The second phase covers the equivalent of Intermediate Arabic I and II and Advanced Arabic I and II and is taken in a total immersion environment at Cornell. During this phase, up to 12 students will take only Arabic classes for the duration of the fall semester. (3) The third phase takes place at the Hashemite University in Jordan during the following spring semester. The students who successfully complete the second phase will spend the spring semester at the Hashemite University with one of the teachers in the Cornell Arabic program. The course work will be taught entirely in Arabic and will focus on Arab society and culture, the Arabic language, and the modern Middle East.

**Credits for Cornell Undergraduates**

The fall and spring semesters will each be the equivalent of 16 credits for Cornell undergraduates. Ideally, students would enroll in the yearlong program during their junior year, but the other years are also a possibility. The program will enable students to fulfill their language requirement and, depending on their major, they would have the option of applying the other courses toward their major. For Near Eastern Studies majors, all the courses would go toward the major (beyond the NES 1103 language course). Nonmajors will be able to count the spring courses toward the geographic breadth requirements. Upon their return, students would have the option of continuing their study of Arabic by enrolling in 4000-level Arabic courses in NES.

**Cornell undergraduates seeking degrees in colleges other than Arts and Sciences**, please note that you will be transferred to the College of Arts and Sciences during IAP. This

means that all costs will be assessed according to Arts and Sciences rates, not those of your "home" college.

For further information, contact the Department of Near Eastern Studies, 409 White Hall, 255-6275 or visit our web site, [www.arts.cornell.edu/nas](http://www.arts.cornell.edu/nas).

**NES 3206 Intensive Arabic Program (IAP)**

Fall. 16 credits. *Satisfies Option 1.* M. Younes and staff.

In the first half of this 16-credit total immersion course, we will continue to develop the four language skills of listening, speaking, reading, and writing through the extensive use of graded materials on a wide variety of topics (education, food, health, sports, religion, politics, economics, etc.). In the second half, students will be introduced to authentic, unedited Arabic language materials ranging from short stories, poems, and songs to newspaper articles dealing with social, political, and cultural issues related to the Arab world and the Middle East. While more attention is given to developing native-like pronunciation and grammatical accuracy than in NES 1101-1102, the main focus of the course will be on encouraging fluency and facility in understanding the language and communicating ideas in it. Building on the foundation started in NES 1101-1102, the course will continue the practice of introducing Arab society, history, and culture. Oral and written expression will be developed through discussions of issues presented in the reading selections, which will be followed by free composition exercises built around topics of interest to individual students.

**NES 3207 Current Events in Arabic Media (IAP)**

Spring. 8 credits. M. Younes and staff. In this 8-credit, one-semester, topic-based course, students will be introduced to authentic, unedited Arabic language materials from Arabic newspapers, magazines, TV broadcasts and interviews, and online media. Topics will include, among other things, politics, economics, business, sports, and women's issues. Students can suggest other topics that interest them to the teacher. Emphasis will be on developing fluency in oral and written expression through discussions, debates, presentations, and written work. The order of activities for each topic will be: reading or listening to a selection before coming to class, class discussion and/or debate, an oral presentation by the students, and, finally, a written homework assignment about the same topic. All activities are conducted entirely in Arabic. There will be more focus on the development of native-like pronunciation and accurate use of grammatical structures than at the lower levels.

**NES 3213 Introduction to Jordanian Society (IAP)**

Spring. 4 credits. M. Younes and staff. Selected readings and discussions on the following topics: (1) the history of the Hashemite Kingdom of Jordan; (2) urban, rural, and bedouin communities, and urbanization; (3) Palestinians and other Arab refugees in Jordan; (4) the Jordanian/Arab family (structure, responsibilities, functions); (5) marriage (and divorce); (6) women and gender roles; (7) the role of religion in the society.

**NES 4204 Arabic Grammar (IAP)**

Spring. 4 credits. M. Younes and staff.  
A systematic and comprehensive examination of all aspects of Arabic grammar: phonology (the sound system), morphology (word formation), and syntax (sentence structure). All the readings and discussions will be in Arabic. References in English will be used for research purposes.

**Greek****NES 1340-1341 Elementary Modern Greek I and II (GREEK 1141-1142)**

1340, fall; 1341, spring. 4 credits.  
Prerequisite: NES 1340/GREEK 1141 or placement by departmental exam.  
K. Yiavis.

For description, see GREEK 1141-1142.

**NES 1342-2324 Intermediate Modern Greek I and II (GREEK 1143-2144)**

Fall. 4 credits. *NES 2324/GREEK 2144 satisfies Option 1.* Prerequisite: NES 1341/GREEK 1142 or placement by departmental exam. K. Yiavis.

For description, see GREEK 1143-2144.

**Hebrew****NES 1101-1102 Elementary Modern Hebrew I and II (also JWST 1101-1102)**

1101, fall; 1102, spring. 4 credits each semester. Limited to 18 students per sec. Prerequisite: for NES 1102, NES 1101 with grade of C- or better or permission of instructor. Letter grades only. S. Shoer.

Intended for beginners. Provides a thorough grounding in reading, writing, grammar, oral comprehension, and speaking. Students who complete the course are able to function in basic situations in a Hebrew-speaking environment.

**NES 1103 Elementary Modern Hebrew III (also JWST 1103)**

Fall. 4 credits each semester. Limited to 15 students per sec. Prerequisite: NES 1102 with grade of C- or better or permission of instructor. Letter grades recommended. N. Scharf.

Sequel to NES 1101-1102. Continued development of reading, writing, grammar, oral comprehension, and speaking skills.

**NES 1104 Beginners Intensive Hebrew (also JWST 1104)**

Summer. 3 credits. S. Shoer.

This course will be taught in Israel as part of the University of Haifa Summer Hebrew Program. The curriculum is comparable to the current Cornell University class NES 1101 or JWST 1101 (Elementary Modern Hebrew I). After completing this program, students will be able to continue and join the Elementary Modern Hebrew II class (NES 1102 or JWST 1102) in the spring 2010 semester. The class is taught using *Ivrit B'Ivrit* (Teaching Hebrew using Hebrew) and is part of a comprehensive integrated skills curriculum, based on Hebrew as a living language. Students are encouraged to use Hebrew from the moment they wake up, during their meals and throughout the day. The students study grammar, reading, writing, structure of the language, listening, and conversation.

**NES 1105 Hebrew Summer Follow-Up (also JWST 1105)**

Fall. 1 credit. S. Shoer.

This course is an advanced study of classical Arabic through a close reading of selected chapters of the Qur'an, together with the Qur'anic commentary (tafsir) and other relevant literature. Special attention is given to grammar, syntax, and lexicography.

**NES 2100 Intermediate Modern Hebrew: Special Topics in Hebrew (also JWST 2100) @**

Spring. 4 credits. *Satisfies Option 1.* Prerequisite: NES 1103 with grade equivalent to C- or above or permission of instructor. Letter grades recommended. N. Scharf.

The course is aimed at training students in exact and idiomatic Hebrew, expanding vocabulary and usage of grammatical knowledge, and acquiring facility of expression in both conversation and writing. Uses written and oral exercises built around the texts. Reading and discussion of selections from Hebrew literature and Israeli culture through the use of texts and audiovisual materials. See web site: <http://Irc.cornell.edu/hebrew/nest100>.

**NES 3101 Advanced Intermediate Modern Hebrew I: Aspects of Israeli Society (also JWST 3101) @**

Fall. 4 credits. *Satisfies Option 1.* Limited to 15 students. Prerequisites: for 3101, NES 2100 with grade of C- or above or permission of instructor. N. Scharf.

Advanced study of the Hebrew language both orally and through the analysis of mostly unedited texts of social, political, and cultural relevance, with less emphasis on the study of grammar. Students are introduced to articles published in Israeli newspapers and magazines, works by authors, and movies. Students develop composition and advanced writing skills by studying language structure, idioms, and various registers of style.

**NES 3102 Advanced Intermediate Modern Hebrew II: Aspects of Israeli Culture (also JWST 3102)**

Spring. 4 credits. *Satisfies Option 1.* Limited to 15 students. Prerequisite: NES 3101 with grade equivalent to C- or above or permission of instructor. Letter grades recommended. N. Scharf.

This course is a continuation of work done in NES/JWST 3101, with less emphasis on the study of grammar. We will read and discuss texts of cultural relevance using articles published in Israeli newspapers, web sites, and works by authors in each of the three principal genres: poetry, theater, and novels. See web site: <http://Irc.cornell.edu/hebrew/nest3102>.

**[NES 3103 Love, Wine, Death, and In Between (also JWST 3103) @ # (CA-AS)]**

Fall. 4 credits. Prerequisite: NES 3102 or permission of instructor. Letter grades recommended. Next offered 2010-2011. S. Shoer.

This course introduces students to a survey of Hebrew poetry from medieval Spain to modern Israel, with focus on secular themes of romance, life pleasures, and esthetic enjoyments. It is intended to continue the development of all aspects of the language. Emphasis is on developing fluency in oral expression through discussion of the reading selections and the development of writing skill.]

**NES 3105 Intensive Conversational Hebrew (also JWST 3105)**

Fall. 2 credits. Limited to 15 students. Prerequisite: NES 3102, 4100, or permission of instructor; non-native speakers only. Letter grades recommended. N. Scharf.

**[NES 4101 Modern Hebrew Literature (also JWST 4101) @ (LA-AS)]**

Spring. 4 credits. Next offered 2010-2011. D. Starr.]

**NES 4102 Biblical Hebrew Prose—Genesis (also JWST/RELST 4102) @ # (LA-AS)**

Fall. 4 credits. *Satisfies Option 1.* Prerequisite: one year of biblical or modern Hebrew. L. Monroe.

From the Garden of Eden to Noah's Ark, from Abraham's journey from Haran to Joseph's coat of many colors, the book of Genesis contains stories that are at once familiar to Western readers, and foreign in their ancient Near Eastern setting. Through reading the book of Genesis in the original Hebrew, this course will address issues such as how the Israelites understood their origins, and their relationships with their God, Yahweh, their neighbors, and the land of Canaan itself, as well as how these themes are developed in biblical myth and folklore. Close attention will be paid to matters of grammar, syntax, and vocabulary in order to develop students' skills in reading biblical Hebrew prose and to enhance their understanding of the Hebrew language itself as a window on ancient Israelite thought. Students will be expected to utilize commentaries, biblical Hebrew grammars, and lexicons in their preparation of assigned texts.

**Hindi-Urdu****NES 1312 Introduction to Urdu Script (also URDU 1125)**

Fall. 1 credit. S. Singh.

For description, see URDU 1125.

**NES 2201-2202 Intermediate Written Urdu I and II (also URDU 2201-2202)**

2201, fall; 2202, spring. 2 credits. Prerequisite: HINDI 1102 or HINDI 1110; and URDU 1125 or permission of instructor. Letter grades only. S. Singh.

For description, see URDU 2201-2202.

**Persian****NES 1320-1321 Elementary Persian I and II**

1320, fall; 1321, spring. 4 credits each semester. Limited to 15 students. I. Gocheleishvili.

Designed for students who want an effective and comprehensive approach to learning Persian that will enable them to progress in the language skills of speaking, listening, reading, and writing. At the completion of this course, students are prepared to deepen their comprehension of Persian through literature and the media.

**NES 1322-2322 Intermediate Persian I and II**

1322, fall; 2322, spring. 4 credits. *NES 2322 @ satisfies Option 1.* Prerequisite: one year (two semesters) elementary Persian or permission of instructor. I. Gocheleishvili.

A continuation of NES 1320-1321. Continued development of speaking, listening, reading, and writing skills.

## Turkish

### NES 1330-1331 Elementary Turkish I and II

1330, fall; 1331, spring. 4 credits each semester. Limited to 15 students. A. Yavas. Intended for students with no experience in Turkish. The goal is to provide a thorough grounding in Turkish language with an emphasis on communication. Small class size provides intensive practice in speaking, writing, and listening/comprehension. The course is co-sponsored by the Institute for European Studies.

### NES 1332-2332 Intermediate Turkish I and II

1332, fall; 2332, spring. 4 credits. *NES 2332 satisfies Option 1.* Prerequisite: one year (two semesters) elementary Turkish or permission of instructor. Staff. A continuation of NES 1330-1331. Continued development of speaking, listening, reading, and writing skills.

## Ancient Near Eastern Languages

### Hieroglyphic Egyptian

#### NES 3450-3451 Hieroglyphic Egyptian I and II

3450, fall; 3451, spring. 4 credits. A. Kleinerman. An introduction to the grammar and writing system of the classical language of the Egyptian Middle Kingdom (ca. 2135-2000 BC). Students learn to read and write hieroglyphics, begin immediately to read *The Tale of the Shipwrecked Sailor*, and are soon reading historical inscriptions of Ramesses II, selections from the Book of the Dead and the Pyramid texts, as well as myths and wisdom literature. Secondary readings in Egyptian history and culture provide context for the texts we will read in the original glyphs.

## Topics Courses

#### [NES 2525 Islam in America (also AMST/RELST 2525) (CA-AS)]

Summer. 3 credits. Next offered 2010-2011. S. M. Toorawa.]

#### NES 2537 Ninth-Century Baghdad and Its "Bad Boys and Girls" @ #

Spring. 3 credits. No prerequisites. S. M. Toorawa. The ninth and 10th centuries in Baghdad have come to be known as the "golden age." In this course we will read works from this golden age, in particular by and about a group I call the "bad boys and girls of Baghdad." We will read Jahiz on envy; Ibn al-Muqaffa' on rulership; Mas'udi on Ja'far (remember Disney's *Aladdin*?). We will read about the caliph Harun al-Rashid and the elephant he sent to Charlemagne. And we will enter the world of the singing sensation "Arib," who was the lover of some of Baghdad's most famous men. We will see how paper, books, and writing changed Baghdad, Islamic society, and human knowledge, and how Arab-Islamic society's contributions changed the world. Weekly thought essays and a final project.

#### NES 2611 Prophecy in Ancient Israel (also JWST/RELST 2611)

Spring. 3 credits. L. Monroe. The purpose of this course is to examine the phenomenon of prophecy in the religion of ancient Israel, as it is revealed through prophetic texts within the Hebrew Bible. We

will seek to understand the social reality that underlies both the content and composition of these texts, and the relationship of the prophet to the Israelite institutions of the temple/cult and palace. We will implement literary critical, historical, sociological, and anthropological approaches in an effort to reconstruct the development of Israelite prophecy from its earliest appearance in narrative sources to its alleged cessation during the Second Temple Period.

#### NES 2620 Modern European Jewish History 1789-1948 (also HIST 2910, JWST 2920)

Fall. 3 credits. S. Gutman. For description, see HIST 2910.

#### NES 2629 Introduction to New Testament and Other Early Christian Literature (also CLASS 2613, JWST/RELST 2629) @ # (HA-AS)

Spring. 3 credits. K. Haines-Eitzen. This course provides a literary and historical introduction to the earliest Christian writings, most of which eventually came to be included in the New Testament. Through the lens of the gospel narratives and earliest Christian letters, especially those of Paul, the course explores the rich diversity of the early Christian movement, from its Jewish roots in first-century Palestine through its development and spread to Asia Minor and beyond. Careful consideration is given to the political, economic, social, cultural, and religious circumstances that gave rise to the Jesus movement, as well as those that facilitated the emergence of various manifestations of early Christian beliefs and practices. (Students who have had at least one year of Greek and would like to participate in a 1-credit, New Testament Greek reading weekly seminar should also enroll in NES 3629 Introduction to New Testament and Other Early Christian Literature.)

#### [NES 2651 Holy War, Crusade, and Jihad (also COML 2310, HIST 2691, JWST 2651) # @ (HA-AS)]

Fall. 3 credits. Next offered 2010-2011. R. Brann.]

#### NES 2655 Introduction to Islamic Civilization (also HIST 2530, RELST 2655) @ # (HA-AS)

Fall. 3 credits. D. Powers. Considers the major themes of Islamic civilization as they developed from the lifetime of Muhammad until the 20th century. While the readings provide the student with the chronology of Islamic history, lectures are devoted to an analysis of thematic units, such as art and architecture, science, and cities. The class meets three times weekly, and the classroom format is that of a lecture/discussion in which students are encouraged to participate actively. Lectures are accompanied by slide presentations when appropriate.

#### NES 2661 Ancient Ships and Seafaring—Introduction to Nautical Archaeology (also ARKEO/JWST 2661) @ # (HA-AS)

Fall. 4 credits. C. Monroe. A survey of the history and development of ships and seafaring as revealed by shipwrecks, boat burials, texts, art and other evidence. The role of nautical technology and seafaring among the maritime peoples of the ancient Mediterranean world—Canaanites, Minoans, Mycenaean, Phoenicians, Hebrews, Greeks, and Romans—as well as the riverine cultures

of Mesopotamia and Egypt, is addressed. The survey stretches from the earliest evidence for Mediterranean seafaring around 10,000 BCE to the first transatlantic voyages in the 15th century, including Arab, Viking, and European explorers, and the birth of modern capitalism in the Italian Maritime Republics. Along the way, economics, war, exploration, cult, life at sea, and colonization are discussed.

#### NES 2668 Ancient Egyptian Civilization (also ARKEO/JWST 2668, HIST 2880) @ # (HA-AS)

Spring. 3 credits. C. Monroe. The course surveys the history and culture of pharaonic Egypt from its prehistoric origins down to the early first millennium BCE. Within a chronological framework, the following themes or topics will be considered: the development of the Egyptian state (monarchy, administration, ideology); social organization (class, gender and family, slavery); economic factors; empire and international relations.

#### NES 2674 History of the Modern Middle East: 19th-20th Centuries (also HIST/JWST 2674, GOVT 2747) @ (HA-AS)

Fall. 3 credits. Z. Fahmy. This course examines major trends in the evolution of the Middle East in the modern era. Focusing on the 19th and 20th centuries, we will consider Middle East history with an emphasis on four themes: imperialism, nationalism, modernization, and Islam. Readings will be supplemented with translated primary sources, which will form the backbone of class discussions.

#### NES 2699 History of the Ottoman Empire, 1300-1922 (also HIST 2699)

Spring. 3 credits. A. Karakaya-Stump. The Ottoman Empire was one of the longest-lasting empires in world history, ruling over a large portion of the Middle East and the Balkans for nearly six centuries. It figures as a major power in the history of both Europe and the Islamic world. This course is an introductory survey of the history of the empire from its origins as a small principality in medieval Anatolia to a leading world power in the 16th century, and to its eventual disintegration by the end of World War I. It explores the major events of Ottoman political history, the main economic, social, and cultural institutions of the Ottoman state and society, and some recent trends in Ottoman historiography including debates on the origins and decline of the Ottomans, and the growing research on Ottoman women.

#### NES 2724 Introduction to Hebrew Bible (also JWST/RELST 2724) (LA-AS)

Fall. 3 credits. L. Monroe. The Hebrew Bible (Old Testament) is a repository of ancient Israelite religious, political, social, historical, and literary traditions. For the modern reader these ancient traditions are often obscured by a focus on the text as revelation. The purpose of this course is to introduce students to the biblical world by reading the Hebrew Bible in translation, on its own terms, as a body of literature that evolved in an ancient Near Eastern context. The Bible itself will be the primary text for the course, but students will also be exposed to the rich and diverse textual traditions of the ancient Near East, including Mesopotamia, Egypt, Moab, and Ugarit. In addition, this course will explore the impact of early biblical interpretation on shaping the monotheistic traditions inherited in the West. As participants

in a secular course on the Bible, students will be challenged to question certain cultural assumptions about the composition and authorship of the Bible, and will be expected to differentiate between a text's content and its presumed meaning.

**NES 2728 Introduction to Modern Middle Eastern Literature (also COML 2728)**  
Spring. 3 credits. D. Starr.

This course offers an introduction to modern literatures in Arabic, Hebrew, Persian, and Turkish. All readings will be in English. We will discuss poetry, short stories, and a novel from each tradition. Readings will be drawn from the work of an array of influential authors, including Nobel laureates S. Agnon (Israel), Naguib Mahfouz (Egypt), and Orhan Pamuk (Turkey).

**NES 2754 Introduction to Near Eastern Civilization: The Literature of Princes, Prophets, and Poets (also COML 2754) @ # (LA-AS)**  
Fall. 3 credits. S. M. Toorawa.

This course (which also fulfills an NES major requirement) is a multidisciplinary introduction to Near Eastern civilizations, exploring history, literature, religion, art, and archeology, and other aspects of the Near East's rich and diverse heritage from earliest times to the present. Together we will read and discuss such ancient works as the *The Epic of Gilgamesh*, "The Song of Songs," and the *Qur'an*, such medieval works as the *Travels of Ibn Battuta*, the *Shahnameh* of Ferdowsi, and the poems of Yehuda Ha-Levi, and modern material from the Arabic, Armenian, Hebrew, Persian, and Turkish literary traditions. We will also watch films and be joined by outside speakers. All material is in English translation.

**[NES 2793 Middle Eastern Cinema (also COML/FILM 2930, JWST 2793, VISST 2193) @ (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011. D. Starr.]

**NES 3212 Qur'an and Commentary (also RELST 3212) @ # (LA-AS)**

Fall. 4 credits. D. Powers.

This course is an advanced study of classical Arabic through a close reading of selected chapters of the Qur'an, together with the Qur'anic commentary (tafsir) and other relevant literature. Special attention is given to grammar, syntax, and lexicography.

**[NES 3524/6524 Israelite Prophecy (also JWST/RELST 3524) @ # (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. L. Monroe.]

**[NES 3551 Law, Society, and Culture in the Middle East (also HIST 3651/6651, NES 6551) @ # (CA-AS)]**

Spring. 4 credits. No prerequisites. Next offered 2010–2011. D. Powers.]

**NES 3588 Biblical Archaeology (also JWST/RELST 3588)**

Spring. 4 credits. L. Monroe.

The purpose of the course is to place the Bible within the context of a larger ancient world that can be explored by systematic excavation of physical remains. Students will become familiar with archaeological excavations and finds from ancient Syria-Palestine from 10,000 BCE to 586 BCE. We will explore this archaeological evidence on its own terms, taking into consideration factors such as archaeological method and the interpretive frameworks in which the

excavators themselves work, as well as the implications of this body of evidence for understanding the complexity and diversity of biblical Israel.

**NES 3600 History of the Holocaust (also HIST/JWST 3700) (HA-AS)**

Spring. 4 credits. V. Caron.

For description, see HIST 3700.

**[NES 3619 Near Eastern Christianities, 50–650 CE (also HIST/JWST/RELST 3619) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011.

K. Haines-Eitzen.]

**NES 3629 Introduction to New Testament and Other Early Christian Literature (also CLASS/JWST/RELST 3629)**

Spring. 1 credit. Pre- or corequisite: NES 2629 or one year of ancient Greek.

K. Haines-Eitzen.

A weekly seminar that may be taken in addition to NES 2629. The seminar will provide an opportunity to read portions of the New Testament and other early Christian writings in Greek. We will work on grammatical and textual issues as well as other problems related to translations.

**NES 3633 Christianization of the Roman World (also CLASS/HIST/RELST 3625) @ # (HA-AS)**

Fall. 4 credits. E. Rebillard.

For description, see CLASS 3625.

**[NES 3661 Sumerian Language and Culture I (also ARKEO/JWST 3661/6661, NES 6661) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011.

D. I. Owen.]

**[NES 3665 Ancient Iraq II: 2000–331 BCE (also ARKEO/JWST 3665) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011.

D. I. Owen.]

**[NES 3666 History and Archaeology of the Ancient Near East (also ARKEO/JWST 3666/6666, NES 6666) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011.

D. I. Owen.

An introductory survey of the history and archaeology of the major civilizations of the Near East from the Persian Gulf—Mesopotamia—to Anatolia, Syria and Canaan. The course will cover the time span from advent of written sources in the late fourth millennium to the Persian conquest of Cyrus. Sumerian, Babylonian, Eblaite, Elamite, Canaanite, Assyrian, Syro-Phoenician, and Israelite cultures will be discussed with particular emphasis on indigenous developments and cross-cultural contacts. Extensive use of visual aids will highlight the course.]

**NES 3670 History of Modern Egypt (also HIST 3670)**

Spring. 3 credits. Z. Fahmy.

This lecture class will explore the socio-cultural history of modern Egypt from the late 18th century to the present. We will explore Egyptian history under the Ottomans and the Mamluks, the unsuccessful French attempt to colonize Egypt, and the successful British occupation of the country. We will then examine the development of Egyptian nationalism from the end of the 19th century through Nasser's pan-Arabism to the current Mubarak regime. We will accomplish this with the aid of a variety of texts and media, including novels and films.

**NES 3677 Search for the Historical Muhammad (also HIST/RELST 3677)**

Spring. 4 credits. D. Powers.

Unlike Moses or Jesus, Muhammad is said to have been born in the full light of history. The earliest extant biography of the Prophet, the *Life of Muhammad* by Ibn Hisham (d. 833), contains a full account of the Prophet's career, from his birth ca. 570 to his death in 632. In this seminar, we will read the *Life of Muhammad* and analyze selected episodes from a critical historical perspective.

**NES 3697 Israeli-Palestinian Conflict (also GOVT 3977, HIST/SOC 3970, JWST 3697) @ (HA-AS)**

Spring. 4 credits. R. Brann.

This course examines the history of the conflict between two peoples with claims to the same land (Palestine/Israel), from the rise of their national movements at the turn of the 20th century and their eventual clash down to the present crisis. We will investigate the various stable and shifting elements in the evolution of the conflict including conflicting Israeli and Palestinian narratives and mythologies about the nature of the conflict. Among many issues to be addressed are: the relationship of this conflict to the history of European colonialism in the Middle East, the emergence of Pan-Arabism and Islamism, the various currents in Zionism and its relationship to Judaism, the implication of great power rivalry in the Middle East, the different causes and political repercussions of the four Arab-Israeli wars, efforts at peacemaking including Oslo and Camp David, and the significance of the two Palestinian uprisings.

**[NES 3703 Cosmopolitan Alexandria (also NES 6703) @ (LA-AS) @]**

Spring. 4 credits. Next offered 2010–2011. D. Starr.]

**[NES 3709 Modern Arabic Drama @ (LA-AS) @]**

Spring. 4 credits. Next offered 2010–2011. S. M. Toorawa.]

**[NES 3716 Education of Princes: Medieval Advice Literature of Rulership and Counsel (also COML/GOVT 3716) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011. S. M. Toorawa.]

**[NES 3720 Women in Ancient Israel (also JWST/RELST 3270) @ (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. L. Monroe.]

**NES 3723 The Arabian Nights: Then and Now (also COML 3723/6723, NES 6723) @ # (LA-AS)]**

Fall. 4 credits. No prerequisites. S. M. Toorawa.

The medieval Arabic cycle of stories known as *The Arabian Nights* or *The Thousand and One Nights* is a classic of world literature. In the first half of the course we will read the Nights and discuss both its dominant themes—deceit, love, sex, revenge, violence, and justice—and its storytelling contexts and antecedents (e.g., the Sanskrit *Jataka Tales* and the Middle Persian *Tales of Bīd-pāi*). And in the second half, we will explore the ways in which its themes and tales have been adapted and appropriated by authors such as Jan Potocki in Polish, Edgar Allan Poe and John Barth in English, Jorge Luis Borges in Spanish, and Naguib Mahfouz in Arabic itself. All material is in English translation.

**NES 3759 Romanesque and Early Gothic Art and Architecture: Europe and the Mediterranean, 900-1150 AD (also ARTH 3300) # (LA-AS)**

Spring. 4 credits. C. Robinson.  
For description, see ARTH 3300.

**NES 3799 Imagining the Other: Jews and Arabs in Contemporary Literature and Film (also COML/JWST 3799) @ (LA-AS)**

Fall. 4 credits. D. Starr.  
This class explores fictional works that reflect upon the Israeli-Palestinian conflict. Topics addressed include the Israeli occupation of the West Bank and Gaza Strip; Palestinian suicide bombings; and Israeli military incursions into Lebanon. Each unit will feature multiple works of film and literature from Arab and Jewish perspectives. We will consider the implications of representing violence and approaching politically fraught topics through fiction. While the films and literary texts we will discuss were all originally produced in Arabic or Hebrew, all course materials will be in English.

**NES 3844 Islamic Politics (also GOVT 3344) @ (SBA-AS)**

Fall. 4 credits. D. Patel.  
For description, see GOVT 3344.

**NES 3850 Middle Eastern Politics (also GOVT 3313) @ (CA-AS)**

Spring. 4 credits. D. Patel.  
For description, see GOVT 3313.

**NES 3914 Middle Eastern Music Ensemble (also MUSIC 3614)**

Fall and spring. 1 credit each semester. Limited to 40 students. Prerequisite: permission of instructor. G. Holst-Warhaft.  
For description, see MUSIC 3614.

**[NES 4101 Modern Hebrew Literature (also JWST 4101) @ (LA-AS)]**

Spring. 4 credits. *Satisfies Option 1.*  
Prerequisite: NES 4100 or equivalent.  
Students who successfully completed 3102 may enroll with permission of instructor.  
Next offered 2010-2011. Staff.]

**[NES 4211 Readings in Arabic Literature (LA-AS)]**

Spring. 4 credits. Next offered 2010-2011.  
S. M. Toorawa.]

**NES 4501 Islam in Africa and Diaspora (also ASRC 4201/6206) (CA-AS)**

Spring. 4 credits. A. Mazrui.  
For description, see ASRC 4201.

**[NES 4511 The Multicultural Alhambra (also ARTH 4311, VISST 4621)]**

Spring. 4 credits. Next offered 2010-2011.  
C. Robinson.  
For description, see ARTH 4311.]

**[NES 4540 Maimonides and Averroes (JWST/RELST 4540, SPAN 4380) @ # (CA-AS)]**

Spring. 4 credits. Next offered 2010-2011.  
R. Brann.]

**NES 4550 The World of the Phoenicians (also HIST 4552, JWST 4550)**

Spring. 4 credits. C. Monroe.  
The Phoenicians were an enigmatic culture and people who originally lived in a coastal region approximately where Lebanon is today. An ancient Semitic people known for seafaring and inventing our alphabet, they left us virtually no texts of their own. The Phoenicians are known mostly from the writings of others, notably ancient Greeks and

biblical authors, and from artifacts in ivory, stone, and metal. In order to understand their material culture and historical importance, we must look broadly in time and space, and this reveals to us a "world" of cultural interactions that stretches across the Mediterranean and Near East, and from the Early Bronze Age or third millennium BCE into Greco-Roman times. We will read about the Phoenician homeland and its colonies, and investigate their maritime economy, language, religion, and adventures abroad. In doing so, we will be exploring the ancient Mediterranean and beyond and meeting a host of other fascinating peoples in the process. Some research and a written paper will be required.

**NES 4560 Theory and Method in Near Eastern Studies (CA-AS)**

Spring. 4 credits. Requirement for NES majors. Z. Fahmy.  
Seminar offering advanced Near Eastern Studies students the opportunity to read and discuss the range of theories and methods that have been employed by scholars in the interdisciplinary area of Near Eastern Studies. After giving attention to the historical development of area studies programs—and their current status and relevance—students read a wide range of highly influential works in Near Eastern Studies. Literary theory, historiography, post-colonialism, archaeology, gender theory, and comparative religions are a few of the approaches, methods, and theories explored. Authors include Talal Asad, Homi K. Bhabha, Mircea Eliade, Timothy Mitchell, Mary Douglas, Zachary Lockman, Edward Said, J. Z. Smith.

**NES 4600 Religion and Imperial Politics in the Early Modern Middle East (also HIST 4611) @ # (HA-AS)**

Fall. 4 credits. This course is designed for graduates and advanced undergraduates who preferably have taken at least an introductory level course in Islamic and/or Middle Eastern History. A. Karakaya-Stump.  
The Early Modern Middle East was dominated by two regional empires: the Ottomans in Anatolia and the Balkans, and the Safavids in Iran. This seminar explores the interplay between religion and politics in the history of these two major premodern Islamic Empires. Topics include notions of religion, sects, and state in Islam; the place of messianism and the ghaza ("holy war") ideology in the rise of the Ottoman and Safavid empires; the Sunni Ottoman-Shi'i Safavid conflict; sources of imperial legitimacy; the religious elite and the state; oppositional or revivalist religious movements and their accommodation and/or repression by the state; and the treatment of non-Muslims. Attention will also be paid to how growing Western hegemony and missionary activism in the region affected state policies vis-à-vis the sectarian minorities and the non-Muslims.

**[NES 4605 Contesting Identities in Modern Egypt (also HIST 4091) @ (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011.  
Z. Fahmy.]

**NES 4639 Readings in Arabic Historical Texts (also RELST 4639) @ # (HA-AS)**

Spring. 4 credits. D. Powers.  
This class will introduce students to Arabic historical texts. The topic for this year's seminar will be the Arab conquests. Review of grammar, syntax, and vocabulary. Prerequisite: Reading knowledge of Arabic.

**[NES 4642 Women in the Modern Middle East (also FGSS 4640, HIST 4642)]**

Spring. 4 credits. Next offered 2010-2011.  
Z. Fahmy.]

**[NES 4644 Late Bronze Age World of Ugarit (also ARKEO/HIST/JWST 4644/6644, CLASS 4744/7744, NES 6644) @**

Spring. 4 credits. Next offered 2010-2011.  
C. Monroe.]

**NES 4666 Mass Media and Identities in the Modern Middle East (also HIST 4666)**

Fall. 4 credits. Z. Fahmy.  
This reading seminar will explore the expansion and influence of mass media in the Middle East from the late 19th to the turn of the 21st century. We will examine how the intersection of popular music, theater, poetry, film, and satellite television shaped culture, ideology, and identities in the modern Middle East. Topics we will consider include contested media representations of "modernity," gender, and evolving cultural, religious, national, and transnational identities. Although this seminar focuses upon the Middle East, it aims to locate the region within a larger global context.

**[NES 4670 Wealth and Power in Early Civilizations (also JWST 4670) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011.  
C. Monroe.]

**[NES 4672 Nationalism(s) and Nation-States in the Arab World]**

Spring. 4 credits. Next offered 2010-2011.  
Z. Fahmy.]

**NES 4727 New York, Paris, Baghdad: Poetry of the City (also COML 4600/6870, NES 6727)**

Spring. 4 credits. S. M. Toorawa.  
The City is a recurrent theme and focus in much poetry, especially poetry of the modernists. We will read these poets to discover how they write the City, how they read it, and how other poets have responded. We will accompany Adonis, Baudelaire, Bayati, Cavafy, Lorca, Sayyab, Whitman (and others) to New York, Paris, Baghdad, Alexandria, Beirut, Cordoba (and elsewhere). All readings in translation, but we will use bilingual editions. Weekly thought essays, and a final paper.

**[NES 4731 Topics in Islamic Art: The Almoravids, the Almohads, and the "Sunni Revival" (also ARTH 4331/6331, NES 6731) @ # (HA-AS)]**

Fall. 4 credits. Next offered 2010-2011.  
C. Robinson.]

**NES 4738 Imagining the Mediterranean (also COML 4960, JWST 4738) @ (LA-AS)**

Spring. 4 credits. G. Holst-Warhaft.  
Through a series of readings in poetry and prose from Greece, Spain, Morocco, Turkey, Israel and Egypt, the course examines how Mediterranean writers interact with the sensuous aesthetics of landscape, music, and ritual in the Mediterranean. We will be concerned with how poetry, music, dance and image interact in the region, and how this relationship is reflected in 20th-century literature from and about the Mediterranean. The readings will focus on particular cases, such as the relationship of Lorca's poetry to the of Andalusia, lowbrow musical form in Greece, and the nostalgia for the mythical city

of Alexandria in Cavafy and other Alexandrian authors. We will also consider how the myth of the Mediterranean has affected modern literary imagination within and beyond the region.

**NES 4784 Israeli Nation: Self and Literature (also JWST 4784)**

Spring. 4 credits. D. Starr.

In this course we will read a selection of works by Israeli authors written after the establishment of the state in 1948. We will focus in particular on the formation of national identity as it has been shaped and reshaped through literary works. Even from the earliest years of the state there were sites of resistance against the pressure to conform. Some of the texts we read explore these tensions between the self and nation, while others explore alternate collective identities within or beyond the confines of the nation and the state. Among the authors we may read are: Orly Castel-Bloom, Sami Mikhail, Amos Oz, Ya'akov Shabtai, Anton Shammas, A. B. Yehoshua. All works will be read in English translation. No knowledge of Hebrew is required.

**NES 4874 States and Societies in the Middle East (also GOVT 4374/6474, NES 6874)**

Spring. 4 credits. D. Patel.

For description, see GOVT 4374.

**[NES 4903 Methods in the Study of the Ancient Near East (also ARKEO 4903, JWST 4903) @**

Spring. 4 credits. Limited to 15 students.

Next offered 2010–2011. D. I. Owen.

This seminar will focus on the reconstruction of the early history and culture of the ancient Near East that was made possible by combining the results of extensive archaeological discovery with the decipherment of the cuneiform languages of Syro-Mesopotamia and Anatolia and the hieroglyphic script of Egypt. The course will examine specific examples in the history of various countries of the Near East (Iraq, Syria, Turkey, Egypt and Israel) in order to explain the methodological similarities and differences utilized by scholars in each of these areas. Selected readings in anthropological, archaeological, philological, historical and literary sources will be augmented by audio-visual materials to provide a comparative perspective on the various approaches to the study of the ancient Near East.]

**NES 4914 Liminality in Maritime Archaeology (also HIST/SHUM 4814)**

Fall. 4 credits. C. Monroe.

For description, see SHUM 4814.

**NES 4916 Crossing Oceans of Time (also SHUM 4816, HIST 4816)**

Fall. 4 credits. M. Aymes.

For description, see SHUM 4816.

**NES 4923 Secular Disaffections: On Islam and the Politics of Emotion (also COML 4066, RELST/SHUM 4823)**

Fall. 4 credits. R. Mas.

For description, see SHUM 4823.

**NES 4953 Islamism (also GOVT 4665)**

Fall. 4 credits. S. Buck-Morss.

For description, see GOVT 4665.

**NES 4991–4992 Independent Study, Undergraduate Level**

Fall and spring. Variable credit.

Prerequisite: permission of instructor. Staff.

**NES 4998–4999 Independent Study, Honors**

Fall and spring. 8 credits. Prerequisite:

permission of instructor. Staff.

**[NES 6112 Readings in Medieval Hebrew Poetry and Prose (also JWST 6112)**

Fall. 4 credits. Next offered 2010–2011.

R. Brann.]

**NES 6642 Topics in Ancient History (also CLASS 7682, HIST 6300, JWST 6642)**

Spring. 4 credits. E. Rebillard.

For description, see CLASS 7682.

**NES 6723 The Arabian Nights: Then and Now (also COML 3723/6723, NES 3723)**

Fall. 4 credits. No prerequisites.

S. M. Toorawa.

The medieval Arabic cycle of stories known as *The Arabian Nights* or *The Thousand and One Nights* is a classic of world literature. In the first half of the course we will read the Nights and discuss both its dominant themes—deceit, love, sex, revenge, violence, and justice—and its storytelling contexts and antecedents (e.g., the Sanskrit *Jataka Tales*, and the Middle Persian *Tales of Bidpai*). And in the second half we will explore the ways in which its themes and tales have been adapted and appropriated by authors such as Jan Potocki in Polish, Edgar Allan Poe and John Barth in English, Jorge Luis Borges in Spanish, and Naguib Mahfouz in Arabic itself. All material is in English translation.

**NES 6727 New York, Paris, Baghdad: Poetry of the City (also COML 4600/6870, NES 4272)**

Spring. 4 credits. S. M. Toorawa.

The City is a recurrent theme and focus in much poetry, especially poetry of the modernists. We will read these poets to discover how they write the City, how they read it, and how other poets have responded. We will accompany Adonis, Baudelaire, Bayati, Cavafy, Lorca, Sayyab, Whitman (and others) to New York, Paris, Baghdad, Alexandria, Beirut, Cordoba (and elsewhere). All readings in translation, but we will use bilingual editions. Weekly thought essays, and a final paper.

**NES 6874 States and Societies in the Middle East (also GOVT 4374/6474, NES 4874)**

Spring. 4 credits. D. Patel.

For description, see GOVT 4374.

**NES 6991–6992 Independent Study: Graduate Level**

Fall and spring. Variable credit.

Prerequisite: permission of instructor. Staff.

**NES 7633 Gender in Late Antiquity (also CLASS/HIST/RELST 7633, FGSS 7630)**

Fall. 4 credits. K. Haines-Eitzen and

K. Bowes.

For description, see CLASS 7633.

**NES 7979 Water and Culture in the Mediterranean: a Crisis? (also BEE 7540, LAW 7792)**

Spring. 4 credits. G. Holst-Warhaft,

K. Porter, and T. Steenhuis.

For description, see BEE 7540.

## NEPALI

See “Department of Asian Studies.”

## PALI

See “Department of Asian Studies.”

## PHILOSOPHY

S. MacDonald, chair, K. Bennett, R. Boyd, T. Brennan, C. Brittain, A. Chignell, M. Eklund, G. Fine, H. Hodes, M. Kosch, R. Miller, D. Pereboom, N. Sethi, N. Silins, N. Sturgeon, E. Taylor. Emeritus: C. A. Ginet, T. Irwin, S. Shoemaker.

The study of philosophy provides students with an opportunity to become familiar with some of the ideas and texts in the history of thought while developing analytical skills that are valuable in practical as well as academic affairs. It affords the excitement and satisfaction that come from understanding and working toward solutions of intellectual problems. The curriculum includes offerings in the history of philosophy, logic, philosophy of science, ethics, social and political philosophy, metaphysics, and theory of knowledge. Any philosophy course numbered in the 1000s or 2000s is suitable for beginning study in the field. Sections of PHIL 1100, 1120, and 1130 are part of the first-year writing seminar program; they are taught by various members of the staff on a variety of philosophical topics, and because of their small size (17 students at most) they provide ample opportunity for discussion. Students who want a broad introduction to philosophy may take PHIL 1100, but many students with special interests may find that the best introduction to philosophy is a 2000-level course in some particular area of philosophy; such courses have no prerequisites and are usually open to first-year students.

### The Major

Students expecting to major in philosophy should begin their study of it in their freshman or sophomore year. Admission to the major is granted by the director of undergraduate studies of the department on the basis of a student's work during the first two years. Normally the student must have completed two philosophy courses with grades of B or better. Eight philosophy courses, taken for a letter grade, are required for the major. They must include at least one course on ancient philosophy (PHIL 2200, or a course with a large component on Plato or Aristotle), at least one course on classical modern metaphysics and epistemology from Descartes through Kant (e.g., PHIL 2220 or a course on the empiricists, the rationalists, or Kant), and a minimum of three courses numbered above 3000. Students admitted to the major are required to take a minimum of six philosophy courses numbered above 2000, and may not count more than one section of PHIL 1110, 1120, or 1130 toward the major. Courses numbered in the 1900s, 2900s, and 3900s do not count toward the major. A course in formal logic (e.g., PHIL 2310), while not required, is especially recommended for majors or prospective majors.

Philosophy majors must also complete at least 8 credits of course work in related subjects approved by their major advisors.

Occasionally majors may serve as teaching or research aides, working with faculty members familiar with their work.

**Honors.** A candidate for honors in philosophy must be a philosophy major with an average of B- or better for all work in the College of Arts and Sciences and an average of B+ or better for all work in philosophy. In either or both semesters of the senior year a candidate for honors enrolls in PHIL 4900/4901 and undertakes research leading to the writing of an honors essay by the end of the final semester. *Honors students normally need to take PHIL 4900/4901 both semesters of their senior year to write a satisfactory honors essay.* PHIL 4900/4901 does *not* count toward the eight philosophy courses required for the major. Prospective candidates should apply at the Department of Philosophy office, 218 Goldwin Smith Hall.

### Fees

In some courses a small fee may be charged for photocopying materials to be handed out to students.

### Introductory Courses

#### First-Year Writing Seminars in Philosophy

Fall and spring, 3 credits. Consult John S. Knight Institute brochure for times, instructors, and descriptions.

#### PHIL 1100 Introduction to Philosophy # (KCM-AS)

Fall and spring, 3 credits. Fall, N. Silins; spring, K. Bennett.

A general introduction to some of the main topics, texts, and methods of philosophy. Topics may include the existence of God, the nature of mind and its relation to the body, causation, free will, knowledge skepticism, and justice and moral obligation. Readings may be drawn from the history of philosophy and contemporary philosophical literature.

#### PHIL 1421 Law, Science, and Society

Spring, 3 credits. M. Fedyk.

Science and law each play an influential and important role in contemporary society. Part of the reason for this is that it is widely believed that both institutions have the special authority to provide answers to many socially important questions. This course will be structured around a philosophical investigation into the sources of the authority of law and science, and a more general consideration of the various ways in which their twin influences are able to shape aspects of our lives.

#### PHIL 1450 Contemporary Moral Issues (KCM-AS)

Fall, summer, 3 credits. Fall, E. Taylor; summer, N. Sethi.

An introduction to some of the main contemporary moral issues. Topics may for example include animal rights, abortion, euthanasia, capital punishment, sexual morality, genetic engineering, and questions of welfare and social justice.

#### PHIL 1500 Philosophy of Everyday Life (KCM-AS)

Fall, 3 credits. K. Bennett.

People sometimes think that philosophy is dry and abstract. It needn't be. This course involves thinking philosophically—i.e., clearly, carefully, and with arguments—about a variety of everyday issues regarding how we live our lives and face our deaths. Questions that might be addressed include the following:

What should we eat? Whom should we befriend or love? How should we love—for example, should we assume that all good romantic relationships are monogamous? How should we spend our leisure time? Does the Internet pose new ethical problems? What, if anything, is wrong with athletes taking steroids? How should we think about ourselves and our loved ones in the face of illness, disability, aging, and death? What can Alzheimer's tell us about the nature of personhood? Does life have any "meaning"—whatever that means?

#### PHIL 1512 Philosophy and Film (also FILM 1512) (KCM-AS)

Summer, 3 credits. C. Maguidhir.

This course uses film to examine and highlight fundamental problems in philosophy as well as pay special attention to philosophical issues in the medium of film. Philosophical topics covered may include artificial intelligence, personal identity, free will, skepticism, philosophy of time, the problem of evil, film and emotion, and film and art.

#### PHIL 1810 Introduction to the Philosophy of Science (KCM-AS)

Summer, 3 credits. N. Sethi.

Philosophy of Science introduces the philosophical study of problems that arise from the practice of science. Our focus will be on such topics as scientific objectivity, scientific explanation, the role of values in the sciences, the nature of scientific observation and reasoning. We will also attempt to apply philosophical analysis to controversies that involve science and society.

#### PHIL 1910 Introduction to Cognitive Science (also COGST 1101, CS 1710, LING 1170, PSYCH 1102) (KCM-AS)

Fall, summer, 4 credits. M. Spivey.

For description, see COGST 1101.

#### PHIL 2200 Ancient Philosophy (also CLASS 2661) # (KCM-AS)

Fall, 4 credits. T. Brennan.

An introductory survey of ancient Greek philosophy from the so-called Presocratics (6th century BCE) through the Hellenistic period (1st century BCE) with special emphasis on the thought of Socrates, Plato, and Aristotle.

#### PHIL 2220 Modern Philosophy # (KCM-AS)

Spring, 4 credits. Best taken in conjunction with PHIL 2200 (Ancient Philosophy), although this is not a prerequisite. D. Pereboom.

A survey of Western philosophy in the 17th and 18th centuries: Descartes, Locke, Spinoza, Leibniz, Berkeley, Hume, and Kant. We focus largely on epistemology (ideas, skepticism, belief, knowledge, science) and metaphysics (bodies, minds, God, causation, natural laws, afterlife, personal identity). Some of the ethical implications of these systems will also be mentioned in passing.

#### PHIL 2240 19th- and 20th-Century European Thought (KCM-AS)

Spring, 4 credits. M. Kosch.

A survey of European philosophy of the 19th and 20th centuries. Figures may include Hegel, Marx, Kierkegaard, Nietzsche, Husserl, Heidegger, Horkheimer, Adorno, Habermas, and Foucault.

#### PHIL 2300 Puzzles and Paradoxes (KCM-AS)

Fall, 4 credits. M. Eklund.

The course provides an overview of a number of famous philosophical puzzles and paradoxes and important attempts to solve them. Among the paradoxes that may be discussed are Zeno's paradoxes of space, time and motion, the paradox of the heap, the liar paradox, Russell's set-theoretic paradox, and various paradoxes concerning knowledge and rationality.

#### PHIL 2310 Introduction to Deductive Logic (MQR)

Spring, 4 credits. H. Hodes.

Sentential languages, the truth-functional connectives, and their logic; first-order languages, the quantifiers "every" and "some," and their logic.

#### PHIL 2410 Ethics (KCM-AS)

Spring, 4 credits. F. Taylor.

An introduction to the philosophical study of ethical reasoning and ethical theories. Topics may include ethical skepticism, ethical relativism and ethical objectivity; ethical egoism, utilitarianism, deontological theories and virtue ethics. Readings may be drawn from contemporary debates as well as from the long history of philosophical writing about ethics.

#### PHIL 2420 Social and Political Philosophy (also GOVT 2605) (KCM-AS)

Spring, 4 credits. E. Taylor.

This course will examine key issues in social and political philosophy. Topics may include the legitimacy of the state; political obligation; the nature and demands of justice; equality; liberty and autonomy. Selected readings may be drawn from historical as well as contemporary sources.

#### PHIL 2450 Ethics and Health Care (KCM-AS)

Spring, 4 credits. N. Sethi.

An introduction to the philosophical study of ethical problems that arise from the practice of medicine as such or that arise in response to developments within medicine and the larger world.

#### PHIL 2460 Ethics and the Environment (also BSOC/STS 2061) (KCM-AS)

Spring, 4 credits. Limited to 40 students.

Open to all undergraduates; freshmen by permission of instructor. S. Pritchard. For description, see BSOC 2061.

#### PHIL 2490 Feminism and Philosophy (also FGSS 2490) (KCM-AS)

Fall, 4 credits. N. Sethi.

This class will explore and examine feminist re-reading of some key issues in traditional philosophy. Our focus will be on the role of gender in the construction of philosophical problems and concepts as well as on the various ways in which traditional philosophy reflects bias against women. Topics include feminist theories of knowledge and science, ethics, law and political theory.

#### PHIL 2530 Religion and Reason (also RELST 2630) (KCM-AS)

Spring, 4 credits. S. MacDonald.

An introduction to some of the main issues in philosophy of religion. Topics may include the existence and nature of God, the problem of evil, the nature of faith, and the epistemology of religious belief. Readings are drawn from the history of philosophy and contemporary philosophical debates.

**PHIL 2620 Introduction to Philosophy of Mind (KCM-AS)**

Spring, 4 credits. N. Silins.

An introduction to some of the central issues in philosophy of mind. Questions to be addressed may include: What is the relation between the mind and the body? How can consciousness fit into our picture of the physical world? What is the difference between a reflex and an intentional action? Readings are typically drawn from recent sources.

**PHIL 2640 Introduction to Metaphysics (KCM-AS)**

Fall, 4 credits. K. Bennett.

This course is an introduction to some of the central questions in metaphysics—the study of what there is and how it works. Possible topics include persistence through change, freedom of the will, the nature of time (and the possibility of time travel), causation, properties, and necessity.

**PHIL 2860 Science and Human Nature (also STS 2861) (KCM-AS)**

Spring, 4 credits. R. Boyd.

An examination of attempts in the biological and social sciences to offer scientific theories of human nature and human potential and to apply such theories to explain important social and psychological phenomena.

**Intermediate or Advanced Courses**

Some of these courses have prerequisites.

**PHIL 3202 Plato (also CLASS 3669) # (KCM-AS)**

Fall, 4 credits. Prerequisites: at least one previous course in philosophy at 2000 level or above; or permission of instructor. G. Fine.

We will study several of Plato's major dialogues, including the *Apology*, the *Meno*, *Phaedo*, and *Republic*. Topics include knowledge and reality; morality and happiness; the nature of the soul.

**PHIL 3204 Hellenistic Philosophy # (KCM-AS)**

Spring, 4 credits. Prerequisites: at least one previous course in philosophy at 2000 level or above or permission of instructor. T. Brennan.

We will study the doctrines and theories of the Epicurean, Stoic, and Skeptical Schools that flourished in the period after the death of Aristotle. This period saw extensive new developments in logic, metaphysics, epistemology, and ethics. The rediscovery of Hellenistic Philosophy in the Renaissance led to the rejection of Medieval Aristotelianism and the birth of early modern philosophy.

**PHIL 3220 Modern Rationalism**

Spring, 4 credits. Prerequisite: One PHIL course, preferably 2220, 3221, or an equivalent. A. Chignell.

A mid-level look at the epistemology and metaphysics of the classical Continental rationalists. Topics typically include: ideas, skepticism, belief, knowledge, science, bodies, minds, God, causation, natural laws, afterlife, personal identity. Readings from some (but not all) of the following: Descartes, Malebranche, Spinoza, Leibniz, Wolff, the early Kant.

**PHIL 3260 Origins of Analytic Philosophy**

Spring, 4 credits. Prerequisite: two previous philosophy courses or permission of instructor. M. Eklund.

An overview of some important authors and themes from the early years of analytic

philosophy (from the late 19th century through the early 20th century). Authors discussed may include Gottlob Frege, Bertrand Russell, G. E. Moore and the early Ludwig Wittgenstein.

**PHIL 3310 Deductive Logic (also MATH 2810) (MQR)**

Fall, 4 credits. Prerequisite: PHIL 2310 or permission of instructor. H. Hodes.

A mathematical study of the formal languages of propositional and predicate logic, including their syntax, semantics, and deductive systems. Various formal results will be established, most importantly soundness and completeness.

**PHIL 3410 Ethical Theory (KCM-AS)**

Fall, 4 credits. N. Sturgeon.

Topic: Consequentialism and Its Critics. This course will examine one of the deepest divides in modern philosophical debates about ethics, between those who think the moral evaluation of acts, character traits, and social institutions ultimately depends solely on their good or bad consequences, and critics who find this approach fundamentally misguided.

**PHIL 3460 Modern Political Philosophy (also GOVT 3625) (KCM-AS)**

Fall, 4 credits. R. Miller.

This course will primarily focus on studying and scrutinizing general conceptions of justice. Topics explored typically include liberty, economic equality, democracy, community, the general welfare, and toleration. We will also look at implications for particular political controversies such as abortion, welfare programs, and pornography.

**PHIL 3700 Problems in Semantics (also COGST 3300, LING 3333) (KCM-AS)**

Fall, 4 credits. D. Abusch.

For description, see LING 3333.

**PHIL 3810 Philosophy of Science (also STS 3811) (KCM-AS)**

Fall, 4 credits. R. Boyd.

This course will cover various topics in the philosophy of science.

**PHIL 3900 Independent Study**

Fall or spring. Variable credit.

To be taken only in exceptional circumstances. Must be arranged by the student with his or her advisor and the faculty member who has agreed to direct the study.

**Advanced Courses and Seminars**

These courses are offered primarily for majors and graduate students.

**PHIL 4002 Latin Philosophical Texts (also RELST 4100)**

Fall and spring. Variable credit. C. Brittain and S. MacDonald.

Reading and translation of Latin philosophical texts.

**PHIL 4003 German Philosophical Texts**

Fall and spring, 4 credits. Prerequisites: basic reading (not necessarily speaking) knowledge of German and permission of instructor. Open to upper-level undergraduates. M. Kosch.

Reading, translation, and English-language discussion of important texts in the German philosophical tradition. Readings for a given term are chosen in consultation with students.

**PHIL 4200 Topics in Ancient Philosophy # (KCM-AS)**

Fall and spring, 4 credits. Fall, G. Fine; spring, T. Brennan.

Advanced discussion of topics in ancient philosophy.

**PHIL 4220 Modern Philosophy # (KCM-AS)**

Spring, 4 credits. M. Kosch.

Advanced discussion of topics or authors in "modern" Western philosophy (roughly the 17th and 18th centuries). Topic for 2010: Kierkegaard.

**PHIL 4311 Topics in Logic (MQR)**

Spring, 4 credits. H. Hodes.

This course will focus on intuitionistic logic, including (1) its relationships to classical logic, some "intermediate logics" between intuitionistic and classical, and a modal logic. We'll consider (2) both proof-theoretic and model-theoretic characterizations of the consequence relations for these logics, (3) algebraic/topological (and time permitting, categorical) characterizations of intuitionistic consequence. (4) We'll also look at how certain mathematical theories have been developed on the basis of intuitionistic logic.

**PHIL 4410 Topics in Contemporary Ethical Theory (KCM-AS)**

Fall, 4 credits. N. Sturgeon.

A course for philosophy graduate students and advanced undergraduates on some selected range of topics in contemporary normative or philosophical ethics. Fall 2009 topic: Moral Realism.

**PHIL 4460 Topics in Political Philosophy (KCM-AS)**

Fall, 4 credits. E. Taylor.

Advanced discussion of topics in political philosophy. Topic for 2009: Consent.

**PHIL 4471 Normative Issues in International Relations**

Fall, 4 credits. R. Miller.

An investigation of normative aspects of international affairs, examining moral principles, specific cases, and proposals for reform. Topics may include the ethics of war, global poverty and global economic justice, fairness and democracy in multinational institutions, forms of transnational domination and their moral significance, human rights regimes, equity and adequacy in containing climate change.

**PHIL 4620 Topic in Philosophy of Mind (KCM-AS)**

Spring, 4 credits. N. Silins.

Advanced discussion of a topic in philosophy of mind. Topic for 2010: Self Knowledge

**PHIL 4810 Problems in the Philosophy of Science (also STS 4811) (KCM-AS)**

Spring, 4 credits. R. Boyd and A. Chignell. Advanced discussion of some problem or problems in the Philosophy of Science. Topic: Neo-Kantian/Hegelian Analytic Philosophy.

**PHIL 4900 Informal Study for Honors**

Fall and spring, 4 credits. Prerequisite: senior honors students.

See "Honors" at the beginning of the Philosophy section.

**PHIL 6020 Latin Philosophical Texts (also LATIN 7262, RELST 6020)**

Fall and spring. Variable credit.

Prerequisites: knowledge of Latin and permission of instructor. S. MacDonald and C. Brittain.

Reading and translation of Latin philosophical texts.

**PHIL 6030 German Philosophical Texts (also GERST 6131)**

Fall and spring. Variable credit. Open to upper-level undergraduates. Prerequisite: basic reading (not necessarily speaking) knowledge of German. M. Kosch.

Reading, translation, and English-language discussion of important texts in the German philosophical tradition. Readings for a given term are chosen in consultation with students.

**PHIL 6200 Seminar in Ancient Philosophy (also CLASS 7173)**

Fall. 4 credits. G. Fine.

Graduate seminar covering a topic in ancient philosophy.

**PHIL 6201 Graduate Seminar in Latin (also CLASS 7271)**

Fall. 4 credits. C. Brittain.

For description, see CLASS 7271.

**PHIL 6210 Seminar in Medieval Philosophy**

Fall. 4 credits. S. MacDonald.

Graduate seminar covering a topic in medieval philosophy.

**PHIL 6410 Seminar in Ethics and Value Theory**

Fall. 4 credits. M. Kosch.

Graduate seminar covering a topic in ethics and value theory.

**PHIL 6470 Seminar on Normative Issues in International Relations**

Spring. 4 credits. R. Miller.

For description, see PHIL 4471.

**PHIL 6610 Seminar in Epistemology**

Spring. 4 credits. N. Silins.

Graduate seminar covering a topic in epistemology.

**PHIL 6640 Seminar in Metaphysics**

Spring. 4 credits. K. Bennett.

Graduate seminar covering a topic in metaphysics.

**PHIL 6710 Seminar in Philosophy of Language (also LING 6634)**

Fall. 4 credits. M. Eklund.

Graduate seminar covering a topic in philosophy of language.

**PHIL 6810 Seminar in Philosophy of Science (also STS 6811)**

Spring. 4 credits. R. Boyd and A. Chignell.

Graduate seminar covering a topic in philosophy of science. Topic for spring 2010: Neo-Kantian/Hegelian Analytic Philosophy.

**PHYSICS**

J. R. Patterson, chair (109 Clark Hall, 255-6016); E. Mueller, director of undergraduate studies (115 Clark Hall, 255-8158, physicsdus@mailbox@cornell.edu); J. P. Alexander, T. A. Arias, I. Bazarov, E. Bodenschatz, P. Brouwer, D. G. Cassel, E. Cassel, I. Cohen, C. Csaki, J. C. Davis, G. F. Dugan, V. Elser, E. Flanagan, C. P. Franck, R. Fulbright, R. S. Galik, A. Giambattista, L. K. Gibbons, P. Ginsparg, B. Greene, Y. Grossman, S. M. Gruner, D. L. Hartill, C. L. Henley, G. Hoffstaetter, E.-A. Kim, P. Krasicky, M. Lawler, A. LeClair, G. P. Lepage, M. U. Liepe, L. McAllister, P. L. McEuen, M. Neubert, Y. Orlov, H. Padamsee, J. M. Parpia, M. Perelstein, D. C. Ralph, B. Richardson, R. C. Richardson, D. L. Rubin, A. Ryd, K. Schwab, K. Selby, J. P. Sethna, K. M. Shen, A. J. Sievers, E. Siggia, S. A. Teukolsky, J. Thom, R. Thorne, H. Tye, C. Umrigar, M. Vengalattore, M. D. Wang, I. Wasserman, P. Wittich, T.-M. Yan

The concepts and methods of physics have an impact on nearly all areas of human endeavor. Thus, the Department of Physics offers courses in physics for the entire Cornell community. There are general education courses for non-scientists, well-designed introductory sequences for science and engineering majors, more advanced courses for physics majors, and rigorous programs of graduate study, up to doctoral-level independent research.

Undergraduate and graduate students benefit from outstanding faculty and world-class research facilities in the Laboratory of Atomic and Solid State Physics (LASSP) and the Laboratory of Elementary Particle Physics (LEPP). Physics faculty and students conduct research in condensed-matter physics, nanophysics, biophysics, atomic physics, X-ray physics, high-energy particle physics, accelerator physics and astrophysics. Students are invited to attend weekly research seminars and colloquia that showcase the work of the national and international physics communities. Undergraduates are encouraged to participate in research, and many find summer employment within the department. For more information, visit [www.physics.cornell.edu/undergraduate](http://www.physics.cornell.edu/undergraduate).

**Courses for Non-Physics Majors**

- PHYS 1101-1102 is a self-paced auto-tutorial course sequence designed for students who recognize the need for a basic understanding of physics, but who do not have preparation in calculus and who do not intend to take further physics courses.
- PHYS 2207-2208 and 1112-2213-2214 are introductory physics courses for students who want a solid grounding in physics and a chance to develop their calculus-based problem solving skills. Non-majors considering more advanced work in physics are encouraged to take 1112-2213-2214 or 2207-2213-2214.
- Courses beyond the introductory level that may be of interest to non-majors include PHYS 3316 Modern Physics I, PHYS 3330 Modern Experimental Optics, and PHYS 3360 Electronic Circuits.
- General education courses currently include PHYS 1201, Why the Sky is Blue: Aspects of the Physical World, PHYS 1203,

Physics of the Heavens and Earth, and PHYS 1204, The Physics of Musical Sound.

Students may obtain advanced placement and credit, as outlined in "Advanced Placement of Freshmen," and transfer credit for physics courses taken elsewhere. Students seeking transfer credit or advice on the use of AP credit should consult the Physics director of undergraduate studies.

**The Physics Major: Two Routes to a Promising Future**

The analytical and problem solving skills and the fundamental conceptual and practical understanding of how the world works provided by an education in physics have allowed physics majors to pursue careers—and have major impacts—not just in physics, but in engineering, education, medicine and the life sciences, the military services, computer and information sciences, earth and environmental sciences, law, finance and economics, management consulting, philosophy of science, forensics and public policy. Reflecting this breadth of opportunity, the Physics Department offers two approaches to the major:

1. The **concentration within physics** is the principal path to professional or graduate work in physics and closely related fields, and is also the best choice for students who wish to obtain maximum benefit from rigorous studies in physics. The inside concentration consists of the core physics courses plus electives taken within the Physics Department.
2. The **concentration outside physics** provides more flexibility for those want to develop skills in physics but whose career interests lie elsewhere. For example, a pre-medical or biophysics student may concentrate in biology; a pre-law student may concentrate in business, history, or public policy; and a student planning graduate work in econometrics or on pursuing an M.B.A. may concentrate in economics. Students interested in education careers (and in capitalizing on the critical national shortage of high school physics teachers) may concentrate in education, allowing them to complete a masters degree in Physics Education with New York State Teacher certification in one additional year at Cornell.

Physics majors—especially those concentrating within physics—are advised to start the introductory physics sequence in the first semester of their freshman year, as a delayed start reduces flexibility in future course scheduling. Students who switch to the physics major after taking introductory physics in their sophomore year can usually still complete an outside concentration. Acceptance into the major program is normally granted upon completion of a year of physics and mathematics courses at Cornell with all course grades at the B- level or higher. Grades of at least C- (or S for S-U only courses) are required in all courses counting toward the physics major.

**Advising**

Prospective majors are urged to meet with the Physics Director of Undergraduate Studies for advice on advanced placement credit and on program planning. Based on their specific

interests, students will be matched by the DUS with a major advisor. The student and major advisor will then work out the details of the major course program.

### Courses for Physics Majors

*The Physics Core*—All physics majors must complete a core of physics and mathematics courses, as follows:

- A three-semester introductory physics sequence, either PHYS 1112–2213–2214, or its more analytic “honors” version 1116–2217–2218. PHYS 2207 students with life/chemical/health science interests who decide to switch to the physics major may complete 2207–2213–2214. A transition from 2208 to 2214 is also possible for students with very strong math backgrounds.
- Mathematics courses covering single and multivariable calculus, linear algebra, series representations, and complex analysis: MATH 1910 or 1120; 1920 or 2210; 2930 or 2220; and 2940 or 2210; or their equivalents. Inside concentrators should complete at least one additional year of applicable mathematics such as AEP 3210 and 3220.
- Five upper-level courses beyond the three-semester introductory sequence, consisting of: (1) the two-course sequence in modern physics (PHYS 3316–3317), (2) at least three semester hours of laboratory work selected from PHYS 3310, 3330, 3360, 4410, or ASTRO 4410, (3) an intermediate course in classical mechanics (PHYS 3314 or 3318), and (4) an intermediate course in electromagnetism (PHYS 3323 or 3327). Students who complete the 1112–2213–2214 or 2207–2213–2214 introductory sequence are advised to complete the 1-credit course PHYS 2216 before taking PHYS 3316.

In addition to the core, each physics major must complete at least 15 semester hours of credit in an area of concentration that has been agreed upon by the student and major faculty advisor.

### Concentration within Physics

Students planning professional or graduate work in physics are encouraged to take the more advanced and analytically rigorous versions of the core courses—PHYS 1116, 2217, 2218, 3318 and 3327. Students with weaker high school preparation may start in PHYS 1112 and then switch to the advanced sequence in later semesters. The best-prepared students, who may qualify for advanced placement credit for PHYS 1112 and/or 2213, are still strongly encouraged to start with 1116.

For a concentration within physics, the minimum 15 hours beyond the core must be composed of physics courses with numbers greater than 3000. These 15 hours must include the senior laboratory course PHYS 4410 in addition to one of the lab courses listed for the core, so that a physics concentration requires a minimum of 7 credit hours of laboratory work. The accompanying table shows some typical course sequences that fulfill the major requirements. The sequence followed by each student will depend upon his or her interests and pre-college preparation, and will be determined in consultation with the major advisor. Majors are

strongly encouraged to participate in the department’s research activities. If this activity is done as an independent project, PHYS 4490, up to 8 credit hours can be applied toward the concentration.

### Concentration outside of Physics

For outside concentrations, the courses to be counted in the minimum 15 credit hours beyond the core must have internal coherence and lead to mastery in the area of concentration. The course sequence must be worked out with and approved by the major faculty advisor. At least 8 of the 15 credit hours must be in courses numbered above 3000. Past areas of concentration include astronomy, business, chemical physics, computer science, econometrics, education, geophysics, history, and philosophy of science, law, meteorology, and public policy. A combined biology/chemistry concentration is common for premedical students or those who wish to prepare for work in biophysics.

The department particularly wishes to encourage students with an interest in science education. Physics majors can obtain teaching certification by concentrating in education and then completing a one-year master of arts in teaching (M.A.T.) degree. Information about the education concentration and M.A.T. can be obtained from the Department of Education’s Cornell Teacher Education Program, from the physics department’s Teacher in Residence, or from the Physics director of undergraduate studies.

The core for students with outside concentrations may follow either PHYS 1112–2213–2214, 3314, and 3323, or the advanced 1116–2217–2218, 3318, and 3327. Students

concentrating in astronomy who might continue on to graduate school in that field are encouraged to take PHYS 3318 and 3327 in the core and ASTRO 4410, 4431, and 4432 toward the concentration.

### Honors

A student may be granted honors in physics upon the recommendation of the Physics Advisors Committee of the physics faculty. There is no particular course structure or thesis requirement for honors.

### Double Majors

Double majors including physics are possible and not at all uncommon. However, any course used to satisfy a requirement of another major may be used in satisfaction of physics major requirements only if the student’s concentration is within physics.

### Courses with Overlapping Content

The grouped courses listed in the chart below have largely similar content. Students should select courses for their academic program carefully, as they may receive credit for only one course in each group.

- PHYS 1101, 1112, 1116, 2207
- PHYS 1102, 2208, 2213, 2217
- PHYS 2214, 2218
- PHYS 3314, 3318
- PHYS 3323, 3327
- PHYS 1116, 2216
- PHYS 2206, GOVT 3847

### Typical Physics Course Sequences (other sequences are also possible)

Semester	Physics concentrators No AP math or physics	Physics concentrators 1 year AP calculus and good HS physics	Outside concentrators electives not indicated	Outside concentrators (alternate) electives not indicated
1st – Fall	1112	1116	1112	
2nd – Spring	2213	2217	2213	1112
3rd – Fall	2214, 2216	2218	2214, 2216	2213
4th – Spring	3316, 33x0	3316, 33x0	33x0	2214, 2216
5th – Fall	3317, 3323/3327, 33x0	3317, 3327, 33x0	3316	33x0, 3316
6th – Spring	3314/3318, 4443	3318, 4443	3314	3314, 3x0
7th – Fall	3341, 4410	3341, 4410	3317, 3323	3317, 3323
8th – Spring	Elective(s)	Elective(s)		

- For majors with concentrations outside physics, there is wide variation in individual programs, arranged to best match the field of concentration.
- Crossovers between the two sequences 1112–2213–2214 and 1116–2217–2218 are possible, although the combination 1112–2213–2218 is difficult. PHYS 2207 may be substituted for PHYS 1112. Students taking 2217 after 1112 must co-register for 2216.
- Students taking the honors sequence 1116–2217–2218 are strongly encouraged to start with PHYS 1116. Exceptionally well-prepared students may be able to begin work at Cornell with PHYS 2217. Such students should visit the Director of Undergraduate Studies for advice in planning a course program.
- Physics electives for the major include 3360, 4444, 4454, 4455, 4480, 4490, 6525, 6553, 6561, 6572, the senior seminars 4481–4489, ASTRO 3332 or 4431–4432, and AEP 4340.
- **One** semester of intermediate laboratory, listed here as 3x0, is required.
- Well-prepared sophomores wishing to take PHYS 3318 should consult the instructor before registering.
- Students interested in graduate work in physics immediately after Cornell are advised to begin the introductory physics sequence in their first semester.

In addition, students with credit for PHYS 1101, 1112, 1116, or 2207, or an advanced placement equivalent who wish to enroll in PHYS 1200-1206 must obtain written permission from the instructor and the Physics director of undergraduate studies.

### Course Prerequisites

Achieving success in a physics course is easier if you have the proper preparation. Each physics course description lists prerequisite courses that develop mastery in the needed mathematics and physics. Students who wish to enroll in a course but lack the listed prerequisites can often succeed with an appropriate work plan, especially if they have other relevant prior experience. These students must discuss their preparation with the course instructor and with their advisor before enrolling.

### Courses

#### PHYS 1012 PHYS 1112 Supplement

Spring. 1 credit. S-U grades only.  
R. Lieberman.

Provides backup instruction for PHYS 1112. Recommended for students who either feel insecure about taking PHYS 1112 or simply want to develop their problem-solving skills. Emphasis is on getting the student to develop a deep understanding of basic concepts in mechanics. Much class time is spent solving problems and applications.

#### PHYS 1013 PHYS 2213 Supplement

Fall. 1 credit. S-U grades only.  
R. Lieberman.

Provides backup instruction for PHYS 2213. Description is the same as for PHYS 1012, except the material covered is electricity and magnetism.

#### PHYS 1101 General Physics I (PBS)

Fall, summer (eight-week, six-week, or first four weeks only for those doing PHYS 1102 in the second four weeks). 4 credits. Enrollment may be limited and freshmen are excluded. General introductory physics for nonphysics majors. Prerequisites: three years high school mathematics, including some trigonometry. Students without high school physics should allow extra time for PHYS 1101. Includes less mathematical analysis than PHYS 2207 but more than PHYS 1200-1206, 1209, 1210. T. Arias.

Emphasizes quantitative and conceptual understanding of the topics of introductory physics developed without use of calculus. The course is mostly self-paced in a mastery-oriented format including eight subject units and a final retention (review) unit. Most instruction occurs in the learning center with personal tutoring by staff, assigned readings, problems, laboratory exercises, videotaped lectures, tutorials and solutions of sample test questions at our web site. Unit testing is designed to measure mastery with a limit of three test tries. Major topics for 1101: kinematics, forces and dynamics, momentum, energy, fluid mechanics, waves and sound, thermal physics, kinetic theory, and thermodynamics. At the level of *College Physics*, second ed., by Giambattista, Richardson, and Richardson.

#### PHYS 1102 General Physics II (PBS)

Spring, summer (eight-week, six-week, or second four weeks only for those doing PHYS 1101 in first four weeks). 4 credits. Enrollment may be limited. Prerequisite: for PHYS 1102, PHYS 1101 or 1112 or 2207. Includes less mathematical analysis than PHYS 2208 but more than PHYS 2200-2206, 2209, 2210. T. Arias.

Emphasizes quantitative and conceptual understanding of the topics of introductory physics developed without use of calculus. The course is mostly self-paced in a mastery-oriented format including eight subject units and a final retention (review) unit each semester. Most instruction occurs in the learning center with personal tutoring by staff, assigned readings, problems, laboratory exercises, videotaped lectures, tutorials, and solutions of sample test questions at the course web site. Unit testing is designed to measure mastery with a limit of three test tries. Major topics for 1102: electricity and magnetism, optics, relativity, quantum, nuclear, and particle physics. At the level of *College Physics*, second ed., by Giambattista, Richardson, and Richardson.

#### [PHYS 1103 General Physics (PBS)

Summer. 4 credits. Prerequisites: three years high school mathematics, including some trigonometry. Next offered 2010-2011.

General introductory physics for non-physics majors. Basic principles treated quantitatively but without calculus. Topics include kinematics; forces and Newton's Laws; momentum, and energy; thermal physics, fluid mechanics; sound and waves.]

#### PHYS 1112 Physics I: Mechanics (PBS)

Fall, spring, summer (six-week session). 4 credits. Primarily for engineering students and prospective physics majors. Prerequisite: MATH 1910 or 1120. Recommended: coregistration in MATH 1920. Fall, A. LeClair; spring, staff.

Covers the mechanics of particles with focus on kinematics, dynamics, conservation laws, central force fields, periodic motion. Mechanics of many-particle systems: center of mass, rotational mechanics of a rigid body, and static equilibrium. At the level of *University Physics*, Vol. 1, by Young and Freedman, 12th ed.

#### PHYS 1116 Physics I: Mechanics and Special Relativity (PBS)

Fall, spring. 4 credits. More analytic than PHYS 1112; intended for students who are comfortable with deeper, somewhat more abstract approach; intended mainly but not exclusively for prospective majors in physics, astronomy, or applied and engineering physics. Prerequisites: good secondary school physics course, proficiency with basic calculus, and enjoyment of puzzle-solving. Corrective transfers between PHYS 1116 and PHYS 1112 (in either direction) are encouraged during first three weeks of instruction. Fall, L. Gibbons; spring, K. Shen.

At the level of *An Introduction to Mechanics* by Kleppner and Kolenkow.

#### PHYS 1117 Concepts of Modern Physics

Fall. 1 credit. Enrollment may be limited. Corequisite: PHYS 1112 or 1116 or 2213 or 2217. For freshmen who plan to major in physics, applied and engineering physics, or astronomy. S-U grades only. A. Sadoff. Intended for freshmen who plan to major in physics or a closely related field (i.e., applied

and engineering physics or astronomy) and would like to learn about the concepts of modern physics early in their physics education. Possible topics of discussion are scientific methodology, symmetry and conservation laws, quantum theory, the unification of forces and matter in the Standard Model, and big-bang cosmology.

#### PHYS 1190 Supplemental Introductory Laboratory

Fall, spring. 1 credit. Times TBA with instructor. Limited enrollment. S-U grades only. Prerequisites: 3 transfer credits for introductory physics lecture material; a degree requirement for laboratory component of that introductory course; approval of director of undergraduate studies; and permission of lecturer of that course at Cornell. Students must file PHYS 1190 permission form in 121 Clark Hall with physics department course coordinator.

Students perform the laboratory component of one of the introductory courses (PHYS 1112, 2207, 2208, 2213, 2214) to complement the lecture-related course credit acquired elsewhere. Those wishing to take equivalent of one of these introductory courses at another institution should receive prior approval from the physics director of undergraduate studies.

#### PHYS 1201 Why the Sky Is Blue: Aspects of the Physical World (PBS)

Fall. 3 credits. A. Sadoff.

Descriptive physics course aimed specifically at the nonscience student. There is an emphasis on the ideas of modern physics where the approach is both historical and thematic. The methodology of science and the nature of evidence is emphasized. An overriding theme is the unification and character of physical laws as shown, for example, through the great principles of symmetry and conservation. While a few computational problems are assigned, the purpose is to help students to understand the concepts rather than to master problem-solving techniques.

#### PHYS 1202 How Physics Works (PBS)

Spring. 3 credits. Intended for nonphysics majors. No background in either science or mathematics beyond high school algebra assumed. Staff.

Introduces students who are not majoring in scientific or quantitative disciplines to the techniques and ways of reasoning employed in physics. By gaining an understanding of two milestones in the history of physics (the discoveries of Newton and the application of the laws of probability to physical problems), students learn about the interaction of experiment, mathematics, and conjecture that has fueled the advance of physics.

#### PHYS 1203 Physics of the Heavens and the Earth—A Synthesis (PBS)

Spring. 3 credits. Prerequisite: none; uses high school algebra and geometry. For nonscience majors. H. Padamsee.

Shows how the unification of apparently distinct areas of physics leads to an explosion in the growth of our knowledge and understanding. The material is divided into three parts: the physics of motion on earth; motion in the heavens; and synthesis. Trace how ideas about celestial and terrestrial motion evolved separately at first, from the ancient ideas of Greek philosophers to the dynamics and telescopic discoveries of Galileo during the Renaissance. The two arenas finally

melled under Newton's Universal Gravitation. Einstein's special and general theories of relativity eventually supplanted Newton's ideas. There is an emphasis throughout on "how do we know the laws?" These are the stories of breakthrough discoveries and brilliant insights made by fascinating people, offering a humanistic perspective.

**PHYS 1204 Physics of Musical Sound (also MUSIC 1466) (PBS)**

Spring, 3 credits. Open to all students and suitable for nonscientists; does not serve as prerequisite for further science courses.

Assumes no scientific background but uses high school algebra. K. Selby.

Explores musical sound from a physics point of view. Topics include: how various musical instruments work; pitch, timbre, scales, intervals and tunings; hearing; room acoustics; reproduction of sound. Science writing and physics problem-solving skills are developed through weekly assignments. Student activities include hands-on investigations of musical instruments, and field trips. Students write a term paper investigating a topic of their choice. At the level of *The Science of Sound* by Rossing, Moore, and Wheeler.

**PHYS 2206 Weapons of Mass Destruction (also GOVT 3847) @**

Spring, 4 credits. *Students enrolled in PHYS 2206 receive PBA-AS; students enrolled in GOVT 3847 receive SBA-AS.* Kreps and G. Lewis.

For description, see GOVT 3847.

**PHYS 2207 Fundamentals of Physics I (PBS)**

Fall, 4 credits. Prerequisites: high school physics plus MATH 1110 or 1106, or solid grasp of basic notions of introductory calculus. M. Liepe.

PHYS 2207–2208 is a two-semester introduction to physics with emphasis on tools generally applicable in sciences, intended for students majoring in physical science, mathematics, or analytically oriented biological science. The combination of lectures illustrated with applications from the sciences, medicine, and everyday life, weekly labs tightly coupled to lectures that introduce computer-aided data acquisition and analysis, and recitations that emphasize cooperative problem-solving, provide a rich exposure to the methods of physics and the basic analytical and scientific communication skills required by all scientists. Course covers mechanics, conservation laws, waves, and topics from thermal physics, fluids, acoustics, and materials physics. At the level of *Fundamentals of Physics*, Vol. I, eighth ed., by Halliday, Resnick, and Walker.

**PHYS 2208 Fundamentals of Physics II (PBS)**

Spring, 4 credits. Prerequisites: PHYS 2207 or 1112 or 1101; substantial contact with introductory calculus (e.g., MATH 1110 or 1106). A continuation of PHYS 2207.

R. Fullbright.

Covers electricity and magnetism, and topics from geometrical and physical optics, quantum and nuclear physics. At the level of *Fundamentals of Physics*, Vol. II, eighth ed., by Halliday, Resnick, and Walker.

**PHYS 2213 Physics II: Heat/Electromagnetism (PBS)**

Fall, spring, summer (six-week session).

4 credits. Primarily for students of engineering and prospective physics majors. Prerequisite: PHYS 1112 and MATH 1920 or 2220. Coregistration with MATH 1920 may be allowed by instructor in exceptional cases. Fall, H. Tye; spring, P. Krasicky; summer, R. Wheeler.

Topics include temperature, heat, the laws of thermodynamics, electrostatics, behavior of matter in electric fields, DC circuits, magnetic fields, Faraday's law, AC circuits, and electromagnetic waves. At the level of *University Physics*, Vols. 1 and 2, by Young and Freedman, 12th ed.

**PHYS 2214 Physics III: Oscillations, Waves, and Quantum Physics (PBS)**

Fall, spring, summer (six-week session). 4 credits. Primarily for engineering students and prospective physics majors.

Prerequisites: PHYS 2213 and MATH 2930. Fall, A. Giambattista; spring, staff; summer, D. Briota.

Physics of oscillations and wave phenomena. Driven oscillations and resonance, mechanical waves, sound waves, electromagnetic waves, reflection and transmission of waves, standing waves, beats, Doppler effect, polarization, interference, diffraction, transport of momentum and energy, wave properties of particles, and introduction to quantum physics with applications to phenomena in physics, engineering, and biology.

**PHYS 2216 Introduction to Special Relativity**

Fall, spring; classes held in first 5–7 weeks. 1 credit. Enrollment may be limited.

Coregistration in this course is requirement for registration in PHYS 2217, unless the student has taken a relativity course at level of PHYS 1116 or ASTRO 1106.

Students cannot get credit for PHYS 2216 if they have taken PHYS 1116. Prerequisites: PHYS 1112 or 2207 or permission of instructor. S–U grades only.

Introduction to Einstein's Theory of Special Relativity, including Galilean and Lorentz transformations, the concept of simultaneity, time dilation and Lorentz contraction, the relativistic transformations of velocity, momentum and energy, and relativistic invariance in the laws of physics. At the level of *Introduction to Relativity* by J. B. Kogurt.

**PHYS 2217 Physics II: Electricity and Magnetism (also AEP 2170) (PBS)**

Fall, spring, 4 credits. Enrollment may be limited. Intended for students who have done very well in PHYS 1112 or 1116 and in mathematics and who desire more analytic treatment than that of PHYS 2213.

Prospective physics majors encouraged to register. Prerequisites: MATH 1920 or 2220. Corequisite: MATH 2930 or equivalent.

Placement quiz may be given early in semester, permitting students who find PHYS 2217 too abstract or analytical to transfer into PHYS 2213. Vector calculus is taught in this course, but previous contact, especially with the operations *grad*, *div*, and *curl*, is helpful. Therefore, coregistration with MATH 1920 will be allowed subject to instructor approval. It is assumed the student has seen special relativity at level of PHYS 1116 or is currently enrolled in PHYS 2216 and that student has covered material of MATH 1920. Fall, M. Wang; spring, staff.

**PHYS 2218 Physics III: Waves and Thermal Physics (PBS)**

Fall, spring, 4 credits. Enrollment may be limited. Intended for students who have done very well in PHYS 1116 and 2217 and in mathematics and who desire more analytic treatment than that of PHYS 2214. Prospective physics majors are encouraged to register. Prerequisites: PHYS 2217 (with grade of B or higher) and course in differential equations (MATH 2930) or permission of instructor. Fall, E.-A. Kim; spring, staff.

The first part of the course gives a thorough discussion of wave equations, including traveling waves, standing waves, energy, momentum, power, reflection and transmission, interference and diffraction. Derives wave equations on strings, sound, elastic media, and light. Covers solutions of these wave equations and Fourier series and transforms. The second part introduces thermodynamics and statistical mechanics, including heat engines, the Carnot cycle, and the concepts of temperature and entropy. Evening exams may be scheduled. At the level of *Physics of Waves* by Elmore and Heald and *Thermal Physics* by Schroeder.

**PHYS 3310 Intermediate Experimental Physics (PBS)**

Spring, 3 credits. Enrollment may be limited. Prerequisite: PHYS 2208 or 2213.

Students select from a variety of experiments. An individual, independent approach is encouraged. Facilities of the PHYS 4410 lab are available for some experiments.

**PHYS 3314 Intermediate Mechanics (PBS)**

Spring, 4 credits. Prerequisites: PHYS 2208 or 2214; or 2216 (or equivalent) and MATH 2940 (or equivalent). Assumes prior introduction to linear algebra and Fourier analysis. Intended for physics majors with concentration outside of physics or astronomy; PHYS 3318 covers similar material at more analytical level. D. G. Cassel.

Likely topics include Lagrangian mechanics; Newtonian mechanics based on a variational principle; conservation laws from symmetries; two-body orbits due to a central force; analysis of scattering experiments; small amplitude oscillating systems including normal mode analysis; parametrically driven systems; rigid body motion; motion in non-inertial reference frames; and nonlinear behavior including bistability and chaos. Students not only become more familiar with analytic methods for solving problems in mechanics but also gain experience with computer tools. At the level of *Classical Mechanics* by John R. Taylor.

**PHYS 3316 Basics of Quantum Mechanics (PBS)**

Fall, spring, 3 credits. Prerequisites: PHYS 2214 or 2218; PHYS 1116 or 2216; and coregistration in at least MATH 2940 or equivalent. Assumes that majors registering in PHYS 3316 will continue with PHYS 3317. Fall, G. Dugan; spring, M. Liepe.

Topics include breakdown of classical concepts in microphysics; light quanta and matter waves; Schrödinger equation and solutions for square well, harmonic oscillator, and the hydrogen atom; wave packets, scattering and tunneling effects, angular momentum, spin, and magnetic moments. At the level of *An Introduction to Quantum Physics* by French and Taylor.

**PHYS 3317 Applications of Quantum Mechanics (PBS)**

Fall. 3 credits. Prerequisite: PHYS 3316. I. Bazarov.

Covers a number of applications of quantum mechanics to topics in modern physics. Topics include: the physics of single and multi-electron atoms, quantum statistical mechanics, molecular structure, quantum theory of metals, band theory of solids, superconductivity, nuclear structure, radioactivity, nuclear reactions, and elementary particle physics.

**PHYS 3318 Analytical Mechanics (PBS)**

Spring. 4 credits. Prerequisites: PHYS 1116 or permission of instructor; AEP 3210 or appropriate course(s) in mathematics. Intended for junior physics majors concentrating in physics or astronomy. PHYS 3314 covers similar material at less demanding level. Assumes prior exposure to Fourier analysis, linear differential equations, linear algebra, and vector analysis. Staff.

Newtonian mechanics of particles and systems of particles, including rigid bodies; oscillating systems; gravitation and planetary motion; moving coordinate systems; Euler's equations; Lagrange and Hamilton formulations; normal modes and small vibrations; introduction to chaos. At the level of *Classical Mechanics* by Goldstein, *Classical Dynamics* by Marion and Thorton, and *Analytical Mechanics* by Hand and Finch. Supplementary reading is assigned.

**PHYS 3323 Intermediate Electricity and Magnetism (PBS)**

Fall. 4 credits. Prerequisites: PHYS 2208 or 2213/2214 (or equivalent) and MATH 2930/2940 (or equivalent). Recommended: coregistration in AEP 3210 or appropriate mathematics course. Intended for physics majors with concentration outside of physics or astronomy; PHYS 3327 covers similar material at more analytical level. A. Sievers.

Topics include electro/magnetostatics, boundary value problems, dielectric and magnetic media, Maxwell's Equations, electromagnetic waves, including guided waves, and sources of electromagnetic radiation. At the level of *Introduction to Electrodynamics* by Griffiths.

**PHYS 3327 Advanced Electricity and Magnetism (PBS)**

Fall. 4 credits. Prerequisites: PHYS 2217/2218 or permission of instructor. Corequisite: AEP 3210 or appropriate mathematics course(s). Intended for physics majors concentrating in physics or astronomy. PHYS 3323 covers similar material at less demanding level. Assumes knowledge of material at level of PHYS 2217 and makes extensive use of vector calculus, and some use of Fourier transforms and complex variables. I. Cohen.

Covers electro/magnetostatics, vector and scalar potentials, multipole expansion of the potential solutions to Laplace's Equation and boundary value problems; time-dependent electrodynamics; Maxwell's Equations, electromagnetic waves, reflection and refraction, wave guides, retarded potential, antennas; relativistic electrodynamics, four vectors, Lorentz, transformation of fields. At the level of *Classical Electromagnetic Radiation* by Heald and Marion.

**PHYS 3330 Modern Experimental Optics (also AEP 3300) (PBS)**

Fall. 4 credits. Limited enrollment. Prerequisite: PHYS 2214 or equivalent. G. Hoffstaetter.

A practical laboratory course in basic and modern optics. Students use lasers and basic optical bench equipment to cover a wide range of topics from geometrical optics to interference, diffraction, and polarization. Each experimental setup is equipped with standard, off-the-shelf optics and opto-mechanical components to provide the students with hands-on experience in practical laboratory techniques currently employed in physics, chemistry, biology, and engineering. Students are also introduced to digital imaging and image processing techniques. Five projects are prescribed and one last project defined and designed by the student with help from the instructor. At the level of *Optics* by Hecht.

**PHYS 3341 Thermodynamics and Statistical Physics (PBS)**

Fall. 4 credits. Prerequisites: PHYS 2214, 3316, and MATH 2940. V. Elser.

Covers statistical physics, developing both thermodynamics and statistical mechanics simultaneously. Also covers concepts of temperature, laws of thermodynamics, entropy, thermodynamic relations, and free energy. Applications to phase equilibrium, multicomponent systems, chemical reactions, and thermodynamic cycles. Application of statistical mechanics to physical systems, and introduction to treatment of Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics with applications. Elementary transport theory. At the level of *Fundamentals of Statistical and Thermal Physics* by Reif.

**PHYS 3360 Electronic Circuits (also AEP 3630) (PBS)**

Fall, spring. 4 credits. Prerequisites: undergraduate course in electricity and magnetism (e.g., PHYS 2208, 2213, or 2217) or permission of instructor. No previous electronics experience assumed, although course moves quickly through introductory topics such as basic DC circuits. Fall semester usually has smaller enrollment. S-U grade option available by permission of instructor for students who do not require course for major. Fall, E. Kirkland; spring, I. Bazarov.

Practical electronics as encountered in a scientific or engineering research/development environment. Analyze, design, build, and test circuits using discrete components and integrated circuits. Analog circuits: resistors, capacitors, operational amplifiers, feedback amplifiers, oscillators, comparators, passive and active filters, diodes and transistor switches and amplifiers. Digital circuits: combinational and sequential logic (gates, flip-flops, registers, counters, timers), analog to digital (ADC) and digital to analog (DAC) conversion, signal averaging, computer architecture and interfacing. Additional topics may include analog and digital signal processing, light wave communications, transducers, and noise reduction techniques and computer-aided circuit design. At the level of *Art of Electronics* by Horowitz and Hill.

**PHYS 4400 Informal Advanced Laboratory**

Fall, spring. 1-3 credits, variable. Prerequisites: two years physics or permission of instructor. P. McEuen.

Experiments of widely varying difficulty in one or more areas, as listed under PHYS 4410, may be done to fill the student's special requirements.

**PHYS 4410 Advanced Experimental Physics (PBS)**

Fall, spring. 4 credits. Prerequisite: senior standing or permission of instructor; PHYS 2214 (or 3310 or 3360) plus 3318 and 3327, or permission of instructor. P. McEuen.

Selected topics in experimental concepts and techniques. About 60 different experiments are available in acoustics, optics, spectroscopy, electrical circuits, electronics and ionics, magnetic resonance, X-rays, low temperature, solid state, cosmic rays, and nuclear physics. The student performs three to four different experiments, depending on difficulty, selected to meet individual needs and interests. Independent work is stressed. Lectures are on experimental techniques used in experiments in the laboratory and on current research topics.

**PHYS 4443 Intermediate Quantum Mechanics (PBS)**

Spring. 4 credits. Prerequisites: PHYS 3316, 3323, or 3327 or AEP 3210 or appropriate mathematics course(s); coregistration in PHYS 3314 or 3318; or permission of instructor. Assumes prior experience in linear algebra, differential equations, and Fourier transforms. Staff.

Provides an introduction to concepts and techniques of quantum mechanics, at the level of *An Introduction to Quantum Mechanics* by Griffiths.

**PHYS 4444 Introduction to Particle Physics (PBS)**

Spring. 4 credits. Prerequisite: PHYS 4443 or permission of instructor. Staff.

The standard model of particle physics; behavior of high-energy particles and radiation; elementary particles; basic properties of accelerators and detectors; general symmetries and conservation laws. At the level of *Introduction to Elementary Particles* by Griffiths or *Modern Elementary Particle Physics* by Kane.

**PHYS 4445 Introduction to General Relativity (also ASTRO 4445) (PBS)**

Fall. 4 credits. Offered as alternative to the more comprehensive, two-semester graduate sequence PHYS 6553 and 6554. L. McAllister.

One-semester introduction to general relativity, which develops the essential structure and phenomenology of the theory without requiring prior exposure to tensor analysis. General relativity is a fundamental cornerstone of physics that underlies several of the most exciting areas of current research, including relativistic astrophysics, cosmology, and the search for quantum theory of gravity. The course briefly reviews special relativity, introduces basic aspects of differential geometry, including metrics, geodesics, and the Riemann tensor, describes blackhole spacetimes and cosmological solutions, and concludes with the Einstein equation and its linearized gravitational wave solutions. At the level of *Gravity: An Introduction to Einstein's General Relativity* by Hartle.

**PHYS 4454 Introductory Solid-State Physics (also AEP 4500) (PBS)**

Fall. 4 credits. Prerequisite: PHYS 4443, AEP 3610, or CHEM 7930 highly desirable but not required. C. Fennie.

Introduction to modern solid-state physics, including crystal structure, lattice vibrations, electron theory of metals and semiconductors, and selected topics from magnetic properties, optical properties, superconductivity, and defects. At the level of *Introduction to Solid State Physics* by Kittel and *Solid State Physics* by Ashcroft and Mermin.

**PHYS 4455 Geometrical Concepts in Physics (PBS)**

Spring. 4 credits. Prerequisite: PHYS 3323 or equivalent and at least coregistration in PHYS 3318 or permission of instructor.

Usually offered every other spring.

Most nonquantum physical theories are based on one or another form of geometry:

Newtonian mechanics on Euclid, electromagnetism on Minkowski, general relativity on Riemann, string theory on higher dimensionality. This course surveys the unification of classical physics that accompanies the application of Hamilton's principle of least action to these various geometries. At the level of *Geometric Mechanics* by Talman.

**[PHYS 4456 Introduction to Accelerator Physics and Technology (also PHYS 7656) (PBS)]**

Fall. 3 credits. Prerequisites: PHYS 3323 or 3327 and PHYS 3314 or 3318. Next offered 2010–2011. G. Hoffstaetter.

Fundamental physical principles of particle accelerators and enabling technologies, with a focus on basic effects in linear and circular accelerations as used for elementary particle collision experiments and for X-ray sources.]

**PHYS 4480 Computational Physics (also ASTRO 7690, PHYS 7680) (PBS)**

Spring. 3 credits. Assumes familiarity with standard mathematical methods for physical sciences and engineering (differential equations, Fourier transforms, and linear algebra) and with some form of computer programming (e.g., C++, Octave, Mathematica, or Python). S–U grades except by permission of instructor. J. Sethna.

Covers numerical methods for ordinary and partial differential equations, linear algebra and eigenvalue problems, integration, nonlinear equations, optimization, and fast Fourier transforms. Find out how and why the “black-box” numerical routines you use work, how to improve and generalize them, and how to fix them when they don't. Based on the text *Numerical Recipes* by William H. Press, Saul A. Teukolsky, William T. Vetterling, and Brian P. Flannery.

**PHYS 4481 Quantum Information Processing (also CS 4812, PHYS 7681) (PBS)**

Spring. 3 credits. Prerequisite: familiarity with theory of finite-dimensional vector spaces over complex numbers.

A technology that successfully exploits fundamental principles of quantum physics can spectacularly alter both the nature of computation and the means available for the transmission of information.

**PHYS 4484 Teaching and Learning Physics (also PHYS 7684)**

Fall, spring. 1 credit. Prerequisites: none. R. Thorne.

This 1.5-hour weekly seminar provides undergraduate and graduate students with an introduction to core concepts in physics education. Participants discuss articles and videos drawn from physics and science education research and from cognitive science, and engage in collaborative activities that help them become more effective teachers and learners. This seminar is especially valuable for those considering teaching physics at some point in their careers. Topics include: Questioning Strategies, Classroom Discourse and Bloom's Taxonomy, Learning Theory, Conceptions and Conceptual Change, Epistemology, Metacognition, and Cooperative Learning. Text: Articles from science, engineering, and math education journals.

**[PHYS 4487 Selected Topics in Accelerator Technology (also PHYS 7687)]**

Fall. 2 credits. Prerequisite: PHYS 3323 or 3327. S–U grades only. Next offered 2010–2011.

Fundamentals of accelerator technology. Consists of a series of topical seminars covering the principal elements of accelerator technology.]

**PHYS 4488 Advanced Topics in Accelerator Physics (also PHYS 7688) (PBS)**

Spring. 3 credits. S–U grades only. G. Hoffstaetter.

After an introduction to the history of particle accelerators and to their fundamental physical principles, special topics in accelerator physics will be covered. Such topics are: microwave structures in particle acceleration, linear and nonlinear beam dynamics, collective effects and beam instabilities, characteristics of synchrotron radiation, a project in storage ring design, and experiments with charged particle beams at Cornell's accelerator laboratory.

**PHYS 4490 Independent Study in Physics**

Fall or spring. Variable to 4 credits; max. of 8 credits may be applied to physics major. Prerequisite: permission of professor who will direct proposed work. Copy of Request for Independent Study form must be filed with physics department course coordinator, 121 Clark Hall.

Individual project work (reading or laboratory) in any branch of physics.

**PHYS 4491 Data Analysis in Particle Physics**

Spring. Variable to 4 credits. Prerequisite: PHYS 1112 or 1116. J. Alexander.

A nuts-and-bolts training course covering essential tools and techniques of particle physics analysis. For students who want to do particle physics research.

**PHYS 6500 Informal Graduate Laboratory**

Fall, spring. Variable to 2 credits. Prerequisite: permission of instructor. P. McEuen.

Experiments of widely varying difficulty in one or more areas, as listed under PHYS 6510, may be done to fill special requirements.

**PHYS 6501 Contemporary Physics for Teachers**

Summer. 2 credits.

Lectures are given by Cornell faculty on topics including: atomic-scale imaging, the Standard

Model, and nanofabrication of integrated circuits. Hands-on activities developed by Cornell scientists working with teachers are presented by teachers. Activities are tied to the New York State Physics Core Curriculum where possible.

**PHYS 6502 Topics in Physics for Teachers**

Summer. 1 credit.

This is a lecture and laboratory course open to CIPT alumni and other high school physics teachers. The course is organized around daily themes that may include atomic games, physics with water, and discrepant events. Lectures are given by Cornell faculty; hands-on activities developed by Cornell scientists working with teachers are presented by teachers. Lab activities may include: a pinball game analogy to the Bohr model, interference in thin films, projectile motion with water, and energy conversion in a mousetrap. Activities are tied to the NYS Physics Core Curriculum where possible.

**[PHYS 6503 Physics Education for Teachers**

Summer. 1 credit. Primarily intended for graduate students. Next offered 2010–2011.

This rigorous 35-hour (one-week) course is designed specifically for secondary science teachers to increase physical science content knowledge as aligned with the NYS Intermediate core curriculum.]

**PHYS 6510 Advanced Experimental Physics**

Fall, spring. 3 credits. Optional lec associated with PHYS 4410 available. P. McEuen.

About 60 different experiments are available in acoustics, optics, spectroscopy, electrical circuits, electronics and ionics, magnetic resonance, X-rays, low temperature, solid state, cosmic rays, and nuclear physics. Students perform three to four experiments selected to meet individual needs. Independent work is stressed. Lectures include techniques used in experiments in the advanced laboratory and on current research topics.

**PHYS 6520 Projects in Experimental Physics**

Fall, spring. Variable to 3 credits. Prerequisite: PHYS 6510. To be supervised by faculty member. Students must advise department course coordinator of faculty member responsible for project.

Projects of modern topical interest that involve some independent development work by student. Opportunity for more initiative in experimental work than is possible in PHYS 6510.

**PHYS 6525 Physics of Black Holes, White Dwarfs, and Neutron Stars (also ASTRO 6511)**

Fall. 4 credits. Prerequisite: none. D. Lai. For description, see ASTRO 6511.

**[PHYS 6553 General Relativity I (also ASTRO 6509)]**

Fall. 4 credits. Prerequisite: knowledge of special relativity and methods of dynamics at level of *Classical Mechanics* by Goldstein. Next offered 2010–2011.

E. Flanagan.

A comprehensive introduction to Einstein's theory of relativistic gravity. This course focuses on the formal structure of the theory.]

**[PHYS 6554 General Relativity II (also ASTRO 6510)]**

Spring. 4 credits. Prerequisite: PHYS 6553 or permission of instructor. Next offered 2010-2011.

This course is a continuation of PHYS 6553 and ASTRO 6509 that covers a variety of advanced topics and applications of general relativity in astrophysics, cosmology and high-energy physics.]

**PHYS 6561 Classical Electrodynamics**

Fall. 3 credits. C. Csaki.

Covers special relativity, Maxwell's equations, electromagnetic potentials, Green's functions, electromagnetic waves, and radiation theory. The practical application of appropriate mathematical methods is emphasized. At the level of *Classical Electrodynamics* by Jackson.

**PHYS 6562 Statistical Mechanics**

Spring. 4 credits. Primarily for graduate students. Prerequisites: good knowledge of quantum mechanics, classical mechanics, and undergraduate-level thermodynamics or statistical mechanics class. Staff.

Starts with the fundamental concepts of temperature, entropy, and free energy, defining the microcanonical, canonical, and grand canonical ensembles. Touches upon Markov chains, random walks, diffusion equations, and the fluctuation-dissipation theorem. Covers Bose-Einstein and Fermi statistics, black-body radiation, Bose condensation, superfluidity, metals, and white dwarves. Discusses fundamental descriptions of phases, and introduces Landau theory, topological order parameters, and the homotopy classification of defects. Briefly studies first-order phase transitions and critical droplet theory and concludes with a discussion of critical phenomena, scaling, universality, and the renormalization group.

**PHYS 6572 Quantum Mechanics I**

Fall. 4 credits. D. Rubin.

Covers the general principles of quantum mechanics, formulated in the language of Dirac. Covers systems with few degrees of freedom such as hydrogen atom, including fine and hyperfine structure. Theory of angular momentum, symmetries, perturbations and collisions are developed to analyze phenomena displayed by these systems. At the level of *Quantum Mechanics: Fundamentals* by Gottfried and Yan. A knowledge of the subject at the level of PHYS 4443 is assumed, but the course is self-contained.

**PHYS 6574 Applications of Quantum Mechanics II**

Spring. 4 credits. Knowledge of concepts and techniques covered in PHYS 6561 and 6572 and of statistical mechanics at undergraduate level assumed.

Possible topics include identical particles, many electron atoms, second quantization, quantization of the electromagnetic field, scattering of complex systems, radiative transitions, and introduction to the Dirac equation.

**PHYS 6599 Cosmology (also ASTRO 6599)**

For description, see ASTRO 6599.

**PHYS 7635 Solid-State Physics I**

Fall. 3 credits. Prerequisites: good undergraduate solid-state physics course (e.g., PHYS 4454), undergraduate statistical mechanics, and familiarity with graduate-level quantum mechanics. D. Ralph.

Survey of the physics of solids: crystal structures, X-ray diffraction, phonons, and electrons. Selected topics from semiconductors, magnetism, superconductivity, disordered materials, dielectric properties, and mesoscopic physics. The focus is to enable graduate research at the current frontiers of condensed matter physics.

**PHYS 7636 Solid-State Physics II**

Spring. 3 credits. Prerequisite: PHYS 7635. Staff.

Continuation of PHYS 7635. Topics from quantum condensed-matter physics not included in that course, which may include Fermi Liquid Theory, magnetism, superconductivity, broken symmetries, elementary excitations, topological defects, superfluids, the quantum Hall effect, mesoscopic quantum transport theory, Anderson localization, and other metal insulator transitions.

**PHYS 7645 An Introduction to the Standard Model of Particle Physics**

Spring. 3 credits. A. Ryd.

This course is an introduction to the Standard Model of particle physics. Familiarity with Feynman rules, Lagrangians, and relativistic wave equations at the level of PHYS 7651 is assumed. Topics covered include strong and electro-weak interactions, Higgs mechanism, and phenomenology of weak interactions, the quark model, particle accelerators and detectors. The course is taught at the level of *Electroweak Interactions: An Introduction to the Physics of Quarks and Leptons* by Peter Renton and *Introduction to High-Energy Physics* by Donald H. Perkins, and *The Standard Model: A Primer* by Cliff Burgess and Guy Moore.

**[PHYS 7646 Topics in High-Energy Particle Physics]**

Spring. 3 credits. Next offered 2010-2011. Staff.

Covers topics of current interest, such as high-energy electron and neutrino interactions, electron positron annihilation, and high-energy hadronic reactions.]

**PHYS 7651 Relativistic Quantum Field Theory I**

Fall. 3 credits. Undergraduates letter grades only; grads S-U or letter grades. Y. Grossman.

Topics include consequences of causality and Lorentz invariance, quantization of Klein-Gordon and Dirac fields, perturbation theory, Feynman diagrams, calculation of cross sections and decay rates, and an introduction to radiative corrections and renormalization with applications to electromagnetic and interactions. At the level of *An Introduction to Quantum Field Theory* by Peskin and Schroeder.

**PHYS 7652 Relativistic Quantum Field Theory II**

Spring. 3 credits. Staff.

A continuation of PHYS 7651. Introduces more advanced methods and concepts in quantum field theory. Topics include functional integral methods, quantization of non-Abelian gauge theories, renormalization, and renormalization group theories, spontaneous symmetry breaking, anomalies, solitons, and instantons. Instead of the standard model of strong and electroweak interactions, some applications to condensed-matter physics will be discussed. At the level of *An Introduction to Quantum Field Theory* by Peskin and Schroeder.

**PHYS 7653 Statistical Physics**

Fall. 3 credits. Prerequisites: quantum mechanics at level of PHYS 6572, statistical physics at level of PHYS 6562. J. Sethna.

Survey of topics in modern statistical physics selected from phase transitions and the renormalization group, linear response and fluctuation-dissipation theories; quantum statistical mechanics; and nonequilibrium statistical mechanics; soft matter and/or biological applications.

**PHYS 7654 Basic Training in Conditional Matter Physics**

Spring. 3 credits. Prerequisites: PHYS 6562, 6574, 7635, 7636, and 7653, or permission of instructor. S-U grades only. Staff.

Advanced topics in condensed-matter physics are taught by several members of the faculty. Past modules include random matrix theory, the quantum Hall effect, disordered systems and computational complexity, asymptotic analysis, superfluid physics, generalized rigidity, many-body methods applied to nanotubes, constraint problems, quantum optics, Luttinger liquids, and quantum antiferromagnets. Future topics may include dilute cold gases and exotic quantum phenomena, thermodynamic Green's functions, 1/N expansions, density functional theory, instantons, dynamical mean-field theory, conformal field theory, Fermi liquid theory and superconductivity, localization and disordered metals, renormalization groups, duality transformations, and Chern-Simons gauge theory. Detailed course content will be announced at the end of the fall semester.

**[PHYS 7656 Introduction to Accelerator Physics and Technology (also PHYS 4456)]**

Next offered 2010-2011.

For description, see PHYS 4456.]

**PHYS 7661 Advanced Topics in High-Energy Particle Theory**

Fall. 3 credits. Prerequisite: PHYS 7652. S-U grades only. M. Perelstein.

Presents advanced topics of current research interest. Subject matter varies from year to year. Some likely topics are two-dimensional conformal field theory with applications to string theory.

**[PHYS 7665 Seminar: Astrophysics Gas Dynamics (also ASTRO 7699)]**

Next offered 2010-2011.

For description, see ASTRO 7699.]

**[PHYS 7667 Theory of Stellar Structure and Evolution (also ASTRO 6560)]**

Fall. 4 credits. Next offered 2010-2011. D. Chernoff.

For description, see ASTRO 6560.]

**PHYS 7680 Computational Physics (also ASTRO 7690, PHYS 4480)**

For description, see PHYS 4480.

**PHYS 7681 Quantum Information Processing (also CS 4812, PHYS 4481)**

For description, see PHYS 4481.

**PHYS 7682 Computational Methods for Nonlinear Systems (also CIS 6229)**

Fall. 3 credits. Enrollment may be limited. E. Mueller.

Graduate computer laboratory, focusing on tools for computation, simulation, and analysis of complex, nonlinear systems arising in a broad range of fields including physics, biology, engineering, applied mathematics, and computer science. The course is pitched

at a high level of computational sophistication, but is designed to fit into the busy schedules of first-year graduate students.

#### **PHYS 7683-7689 Special Topics**

Offerings are announced each semester.

Typical topics are group theory, analyticity in particle physics, weak interactions, superfluids, stellar evolution, surface physics, Monte Carlo methods, low-temperature physics, magnetic resonance, phase transitions, and the renormalization group.

#### **PHYS 7684 Teaching and Learning Physics (also PHYS 4484)**

For description, see PHYS 4484.

#### **[PHYS 7687 Selected Topics in Accelerator Technology (also PHYS 4487)]**

Next offered 2010–2011.

For description, see PHYS 4487.]

#### **PHYS 7688 Advanced Topics in Accelerator Physics (also PHYS 4488)**

For description, see PHYS 4488.

#### **PHYS 7690 Independent Study in Physics**

Fall or spring. Variable to 4 credits.

Students must advise department course coordinator, 121 Clark Hall, of faculty member responsible for grading their project. S–U grades only.

Special graduate study in some branch of physics, either theoretical or experimental, under the direction of any professorial member of the staff.

## POLISH

See “Department of Russian.”

## PORTUGUESE

See “Department of Romance Studies.”

## PSYCHOLOGY

S. L. Bem, M. Christensen, T. Cleland, J. E. Cutting, T. J. DeVoogd, D. A. Dunning, S. Edelman, M. Ferguson, D. J. Field, B. L. Finlay, T. D. Gilovich, M. Goldstein, B. P. Halpern, A. M. Isen, R. E. Johnston, C. L. Krumhansl, D. A. Levitsky, J. B. Maas, D. A. Pizarro, H. S. Porte, D. T. Regan, E. A. Regan, H. Segal, D. Smith, B. J. Strupp, V. Zayas

The major areas of psychology represented in the department are perception, cognition, and development (PCD), behavioral evolutionary neuroscience (BEN), and social and personality psychology. These areas are very broadly defined, and the courses are quite diverse. Behavioral evolutionary neuroscience (BEN) includes animal learning, neuropsychology, interactions between hormones, other biochemical processes, and behavior. Perception, cognition, and development includes such courses as cognition, perception, memory, and psycholinguistics. Social and personality psychology is represented by courses in social psychology and personality (e.g., Psychology and Law, Judgment and Decision Making), as well as courses in fieldwork and

psychopathology. In addition to the three major areas mentioned above, the department emphasizes the statistical and logical analysis of psychological data and problems.

### The Major

Admission to the major is usually granted to any student in good standing in the college who has passed three or more psychology courses with grades of C+ or better. Provisional admission requires two such courses. To apply to the major and receive an advisor, a major application form may be obtained from the department office (211 Uris Hall) and should be completed and taken to one of the faculty members whose name is listed on the form.

Requirements for the major are:

1. a total of 40 credits in psychology (including prerequisites), from which students majoring in psychology are expected to choose, in consultation with their advisors, a range of courses that covers the basic processes in psychology (laboratory and/or field experience is recommended); for any courses taken in 2009–2010 or later to count toward the 40 required credits, the student must earn a grade of C– or better; and
2. demonstration of proficiency in statistics before the beginning of the senior year. (See the section below on the statistics requirement.)

Normally it is expected that all undergraduate psychology majors will take at least one course in each of the following three areas of psychology:

1. **Perception, cognition, and development (PCD)**
2. **Behavioral evolutionary neuroscience (BEN)**
3. **Social and personality psychology**

The following classification of Department of Psychology offerings is intended to help students and their advisors choose courses that will ensure that such breadth is achieved.

1. **Perception, cognition, and development:** PSYCH 1102, 2050, 2090, 2140, 2150, 3050, 3160, 3420, 4120, 4180, 4260, 4270, 4280, 4320, 4360, 4370, 4650, 4780.
2. **Behavioral evolutionary neuroscience:** PSYCH 2230, 3220, 3240, 3260, 3320, 3610, 3960, 4200, 4230, 4240, 4250, 4290, 4310, 4350, 4400, 4410, 4440, 4920.
3. **Social and personality psychology:** PSYCH 2650, 2750, 2800, 2820, 3250, 3270, 3280, 3800, 3850, 4050, 4300, 4520, 4810, 4820, 4850, 4910.
4. **Other courses:** PSYCH 1101, 1990, 3470, 3500, 4101, 4700, 4710. The major advisor determines to which group, if any, these courses may be applied.

With the permission of the advisor, courses in other departments may be accepted toward the major requirements.

### Fieldwork, independent study, and teaching.

The department requires students to observe the following limits on fieldwork, independent study, and teaching.

1. Undergraduates may not serve as teaching assistants for psychology courses if they

are serving as teaching assistants for any other course during the same semester.

2. An undergraduate psychology major cannot apply more than 12 of the credits earned in independent study (including honors work) and fieldwork toward the 40 credits required by the major.

**Statistics requirement.** Proficiency in statistics can be demonstrated in any one of the several ways listed below.

1. Passing PSYCH 3500.
2. Passing an approved course or course sequence in statistics in some other department at Cornell.
3. Passing a course or course sequence in statistics at some other college, university, or college level summer school. The course or sequence must be equivalent to at least 6 semester credits. The description of the course from the college catalog and the title and author of the textbook used must be submitted to Professor Gilovich for approval.
4. Passing an exemption examination. This examination can be given at virtually any time during the academic year if the student gives notice at least one week before. Students who have completed a theoretical statistics course in a department of mathematics or engineering and who wish to demonstrate competence in applied statistics usually find this option the easiest. Students planning this option should discuss it in advance with Professor Gilovich.

### Concentration in biopsychology.

Psychology majors interested in psychology as a biological science can elect to specialize in biopsychology. Students in this concentration must meet all of the general requirements for the major in psychology and must also demonstrate a solid background in biology; the physical sciences, including at least introductory chemistry; and mathematics. Students will design with their advisors an integrated program in biopsychology built around courses on physiological, chemical, anatomical, and ecological determinants of human and nonhuman behavior offered by the Department of Psychology. Additional courses in physiology, anatomy, biochemistry, neurochemistry, neurobiology, and behavioral biology may be designated as part of the psychology major after consultation between the student and his or her biopsychology advisor.

### Concentration in social and personality psychology.

Psychology majors who wish to specialize in social psychology are expected to meet the general requirements set by their department, including statistics. To ensure a solid interdisciplinary grounding, students in the concentration are permitted to include some major courses in sociology and related fields. Advisors will assist students in the selection of a coherent set of courses from social organization, cultural anthropology, experimental psychology, social methodology, and several aspects of personality and social psychology. Seniors in the concentration may elect advanced and graduate seminars, with the permission of the instructor.

**Undergraduate honors program.** The honors program is designed for exceptional students who wish to pursue an intensive and independent program of research in psychology. Successful participation serves as

evidence of the student's facility in the two most important skills required of an academic psychologist: namely, the capacity to acquire and integrate a substantial body of theoretical and factual material and the ability to devise and execute a creative empirical research project.

The honors program offers students the closest contact and consultation with faculty they will likely experience while at Cornell, and all qualified majors who are planning graduate work in any academic field should consider applying. However, it should also be noted that conducting honors research and completing a thesis is an extremely demanding undertaking, both in time and effort. Due to the demands of both research and writing, it is expected that after the Christmas break, honors students will return to campus as early as possible to continue their work, as well as remain on campus through all of spring break.

The focus of the honors program is conducting an experiment, analyzing the data that result, and describing the project in a thesis that closely approximates a professional-level research report both in form and quality. The research project is to be conducted under the close sponsorship of a faculty member. Subject to approval, the sponsor need not be in the psychology department per se. Students that successfully complete the honors program graduate with one of levels of honors, which is noted on their diplomas. The customary level is cum laude, awarded to approximately two-thirds of psychology honors graduates. Approximately one-third receive the next higher level of honors, which is magna cum laude. A student who has both an unusually strong academic record in psychology and completes a thesis of exceptionally high quality will be considered for summa cum laude, the highest level of honors. However, those are unusual cases. The T. A. Ryan Award, accompanied by a cash prize, is awarded to the student who conducts the best honors project in a given year. Students in the program register for 3 or 4 credits of PSYCH 4710 Independent Study in both fall and spring semesters. Format and binding of the thesis follows guidelines for the doctoral dissertation and master's thesis, outlined by the Cornell University Graduate School. Stylistic format is APA style. Alternative style formats are possible, if approved in advance.

### Computing in the Arts Undergraduate Minor

A minor in Computing in the Arts with an emphasis on psychology is available both to psychology majors and to students majoring in other subjects.

### Courses

#### **PSYCH 1101 Introduction to Psychology: The Frontiers of Psychological Inquiry (SBA-AS)**

Fall, summer (six-week). 3 credits.

Attendance at lec mandatory. Students who wish to take disc seminar should also enroll in PSYCH 1103. J. B. Maas.

The study of human behavior. Topics include brain functioning and mind control, psychophysiology of sleep and dreaming, psychological testing, perception, learning, cognition, memory, language, motivation, personality, abnormal behavior, psychotherapy, social psychology, and other aspects of

applied psychology. Emphasis is on developing skills to critically evaluate claims made about human behavior.

#### **PSYCH 1102 Introduction to Cognitive Science (also COGST 1101, CS 1710, LING 1170, PHIL 1910) (KCM-AS)**

Fall, summer (six-week). 3 or 4 credits (4-credit option involves writing sec instead of exams). Staff.

For description, see COGST 1101.

#### **PSYCH 1103 Introductory Psychology Seminars**

Fall. 1 credit. Limited to 200 students.

Corequisite: PSYCH 1101. 12 different time options. J. B. Maas and staff.

Weekly seminar that may be taken in addition to PSYCH 1101 to provide an in-depth exploration of selected areas in the field of psychology. Involves extensive discussion and a semester paper related to the seminar topic. Choice of seminar topics and meeting times are available at the second lecture of PSYCH 1101.

#### **PSYCH 1110 Brain, Mind, and Behavior (also BIONB/COGST 1110) (PBS)**

Spring. 3 credits. Prerequisite: freshmen and sophomores in humanities and social sciences; juniors and seniors not allowed.

Not recommended for psychology majors; biology majors may not use for credit toward major. Letter grades only. E. Adkins Regan and R. Hoy.

For description, see COGST 1110.

#### **PSYCH 1650 Computing in the Arts (also CIS/CS/ENGRI 1610, DANCE 1540, FILM 1750, MUSIC 1465) (LA-AS)**

Fall. 3 credits. G. Bailey.

For description, see CS 1610.

#### **PSYCH 2050 Perception (also PSYCH 6050)**

Fall. 3 credits. Open to all students. Graduate students, see PSYCH 6050.

J. E. Cutting.

One of four introductory courses in cognitive psychology. Basic perceptual concepts and phenomena are discussed with emphasis on stimulus variables and sensory mechanisms. All sensory modalities are considered. Visual and auditory perception are discussed in detail.

#### **PSYCH 2090 Developmental Psychology (also PSYCH 7090) (KCM-AS)**

Spring. 4 credits. Graduate students, see PSYCH 7090. M. Goldstein.

One of four introductory courses in cognition and perception. A comprehensive introduction to current thinking and research in developmental psychology that approaches problems from both psychobiological and cognitive perspectives. We will use a comparative approach to assess principles of development change. The course focuses on the development of perception, action, cognition, language and social understanding in infancy and early childhood.

#### **PSYCH 2140 Cognitive Psychology (also COGST 2140/6140, INFO 2140, PSYCH 6140) (KCM-AS)**

Spring. 4 credits. Limited to 200 students. Prerequisite: sophomore standing.

Graduate students, see PSYCH 6140. S. Edelman.

Introduces the idea of cognition as information processing or computation, using examples from perception, attention and consciousness, memory, language, and thinking. Participants acquire conceptual tools

that are essential for following the current thought on the nature of mind and its relationship to the brain.

#### **PSYCH 2150 Psychology of Language (also COGST 2150, LING 2215) (KCM-AS)**

Spring. 3 credits. Prerequisites: sophomore, junior, or senior standing; any one course in psychology or human development.

M. Christiansen.

Provides an introduction to the psychology of language. The purpose of the course is to introduce students to the scientific study of psycholinguistic phenomena. Covers a broad range of topics from psycholinguistics, including the origin of language, the different components of language (phonology, morphology, syntax, and semantics), processes involved in reading, computational modeling of language processes, the acquisition of language (both under normal and special circumstances), and the brain bases of language.

#### **PSYCH 2230 Introduction to Biopsychology (PBS: supplementary list)**

Fall. 3 credits. Prerequisites: none. May be used to satisfy psychology major breadth requirement and as alternative prerequisite for upper-level biopsychology courses.

D. Smith.

Introduction to psychology from a biological perspective, which focuses on brain mechanisms of behavior. Topics include the structure and function of the nervous system, physiological approaches to understanding behavior, hormones and behavior, biological bases of sensation and perception, learning and memory, cognition, emotion, and communication.

**Introductory courses in social and personality psychology.** Each of the following three courses (2650, 2750, 2800) provides an introduction to a major area of study within social and personality psychology. These courses are independent of one another, and none have any prerequisites. Students may take any one of the courses or any combination of them (including all three). Courses may be taken in any order or simultaneously.

#### **PSYCH 2610 Development of Social Behavior (also HD 2610) (SBA-AS)**

Fall. 3 credits. Prerequisites: HD 1150, PSYCH 1101. J. Mikels.

For description, see HD 2610.

#### **PSYCH 2650 Psychology and Law (SBA-AS)**

Fall. 3 credits. D. A. Dunning.

Examines the implications of psychological theory and methods for law and the criminal justice system. Concentrates on psychological research on legal topics (e.g., confession, eyewitness testimony, jury decision making, homicide, aggression, the prison system), social issues (e.g., death penalty, affirmative action), and on psychologists as participants in the legal system (e.g., assessing insanity and dangerousness and for expert testimony).

#### **PSYCH 2750 Introduction to Personality Psychology (also HD 2600) (SBA-AS)**

Fall. 3 credits. Recommended: introductory psychology or human development.

V. Zayas.

A shared assumption among personality psychologists is that each person possesses a personality—i.e., characteristic ways of thinking, feeling, and behaving—that uniquely

distinguishes him or her from other people. Each individual's personality is the culmination of his or her genetic makeup, biology, early life experiences, learning and culture. In this undergraduate-level course, we will review the major theories and research paradigms (e.g., trait, biological, cognitive) of modern-day personality psychology. The course will emphasize contemporary research, theory, and methodology, as well as provide a review of historical accounts that have significantly contributed to current conceptualizations.

**PSYCH 2800 Introduction to Social Psychology (SBA-AS)**

Spring, summer (three-week). 3 credits.  
T. D. Gilovich and D. T. Regan.

Introduction to research and theory in social psychology. Topics include social influence, persuasion, and attitude change; social interaction and group phenomena; altruism and aggression; stereotyping and prejudice; and everyday reasoning and judgment.

**PSYCH 2820 Community Outreach (also HD 2820)**

Fall. 2 credits. Prerequisites: PSYCH 1101 or HD 1150. H. Segal.

Provides students with information and perspectives essential to volunteer fieldwork with human and social service programs in the community. Readings are drawn from the field of community psychology and include analyses of successful programs, such as Head Start, as well as a review of the methods by which those programs are developed and assessed. Although students are not required to volunteer, the instructor provides students with a list of local agencies open to student placements.

**PSYCH 3050 Visual Perception (also VISST 3305)**

Spring. 4 credits. Limited to 25 students.  
Prerequisite: PSYCH 2050 or permission of instructor. J. E. Cutting.

Detailed examination of pictures and their comparison to the real world. Linear perspective in Renaissance art, photography, cinema, and video is discussed in light of contemporary research in perception and cognition.

**PSYCH 3130 Problematic Behavior in Adolescence (also HD 3130)**

Fall. 3 credits. Prerequisite: HD 1150 or PSYCH 1101. Recommended: HD 2160.  
M. W. J. Haugaard.

For description, see HD 3130.

**PSYCH 3150 Obesity and the Regulation of Body Weight (also NS 3150)**

Spring. 3 credits. Limited to 30 students.  
Prerequisites: one course each in psychology and nutrition; undergraduates by permission of instructor. S-U or letter grades. Offered alternate years.  
D. A. Levitsky.

Multidisciplinary discussion of the causes, effects, and treatments of human obesity. Topics include the biopsychology of eating behavior, the genetics of obesity, the role of activity and energy metabolism, psychosocial determinants of obesity, anorexia nervosa, therapy and its effectiveness, and social discrimination.

**PSYCH 3160 Auditory Perception (also PSYCH 7160) (KCM-AS)**

Spring. 4 credits. Limited to 15 students.  
Prerequisite: PSYCH 1102, 2050, 2090, or 2140 (or other similar engineering, physics, linguistics, or biology courses). Graduate students, see PSYCH 7160. C. L. Krumhansl.

Lab course designed to introduce students to experimental methods in auditory perception and cognition. Students learn principles of experimental design and statistical analysis, conduct a literature review in their chosen area of research, and complete at least one independent research project. Computers are available and used in many of the experiments although computer literacy is not required. Projects are selected from the areas of auditory perception, perceptual organization, and memory of music, speech, and environmental sounds.

**[PSYCH 3220 Hormones and Behavior (also BIONB 3220, PSYCH 7220) (PBS)]**

Fall. 3 credits. Two lec plus sec in which students read and discuss original papers in the field, give an oral presentation, and write a term paper. Prerequisites: junior or senior standing; any one of the following: PSYCH 2230, BIONB 2210 or 2220, or one year introductory biology plus psychology course. Graduate students, see PSYCH 7220. Next offered 2010–2011. E. Adkins Regan.

Comparative and evolutionary approaches to the study of the relationship between reproductive hormones and sexual behavior in vertebrates, including humans. Also hormonal contributions to parental behavior, aggression, stress, learning and memory, and biological rhythms.]

**PSYCH 3240 Biopsychology Laboratory (also BIONB 3240) (PBS)**

Fall. 4 credits. Limited to 20 students.  
Prerequisites: junior or senior standing; PSYCH 2230 or BIONB 2210 or 2220, and permission of instructor. Lab fee: \$50.  
T. J. DeVoogd.

Experiments designed to provide experience in animal behavior (including learning) and its neural and hormonal mechanisms. A variety of techniques, animal species, and behavior patterns are included.

**PSYCH 3250 Adult Psychopathology (also HD 3700) (SBA-AS)**

Spring. 3 credits. Prerequisite: sophomore, junior, or senior standing; any one course in psychology or human development. No S-U option. H. Segal.

A theoretical and empirical approach to the biological, psychological, and social (including cultural and historical) aspects of adult psychopathology. Readings range from Freud to topics in psychopharmacology. The major mental illnesses are covered, including schizophrenia as well as mood, anxiety, and personality disorders. Childhood disorders are not covered.

**PSYCH 3260 Evolution of Human Behavior (PBS: Supplementary List)**

Spring. 4 credits. Prerequisite: PSYCH 2230, or introductory biology, or introductory anthropology. R. E. Johnston.

Broad comparative approach to the behavior of animals and humans with special emphasis on the evolution of human behavior. Topics vary but include some of the following: human evolution, evolutionary and sociobiological theory, animal communication, nonverbal communication, language, cognitive capacities,

social behavior and organization, cooperation and altruism, sexual behavior, mating and marriage systems, aggression, and warfare.

**PSYCH 3270 Field Practicum I (also HD 3270) (SBA-AS)**

Fall only. 3 credits. Limited enrollment.  
Prerequisites: PSYCH 3250 or HD 3700 (or taken concurrently), and permission of instructor. Students must commit to taking PSYCH 3280 in spring semester. Letter grades only. H. Segal.

Composed of three components that form an intensive undergraduate field practicum. First, students spend three to six hours a week at local mental health agencies, schools, or nursing facilities working directly with children, adolescents, or adults; supervision is provided by host agency staff. Second, the instructor provides additional weekly individual, clinical supervision for each student. Third, seminar meetings cover issues of adult and developmental psychopathology, clinical technique, case studies, and current research issues. Students write one short paper, two final take-home exams, and present an account of their field experience in class.

**PSYCH 3280 Field Practicum II (also HD 3280) (SBA-AS)**

Spring. 3 credits. Limited enrollment.  
Prerequisites: PSYCH 3270 taken previous semester, PSYCH 3250 or HD 3700 (or taken concurrently), permission of instructor. Letter grades only. H. Segal.

Continues the field practicum experience from PSYCH 3270.

**[PSYCH 3300 Introduction to Computational Neuroscience (also BIONB/BME/COGST 3300) (PBS)]**

Fall. 3 or 4 credits. Next offered 2010–2011.  
C. Linster.

For description, see BIONB 3300.]

**PSYCH 3320 Biopsychology of Learning and Memory (also BIONB 3280, PSYCH 6320) (PBS)**

Spring. 3 credits. Limited to 60 students.  
Prerequisites: one year of biology and either a biopsychology course or BIONB 2220. Graduate students, see PSYCH 6320.  
T. J. DeVoogd.

Surveys the approaches that have been or are currently being used to understand the biological bases for learning and memory. Topics include invertebrate, "simple system" approaches, imprinting, avian song learning, hippocampal and cerebellar function, or research using fMRI pathology in humans. Many of the readings are from primary literature.

**PSYCH 3420 Human Perception: Applications to Computer Graphics, Art, and Visual Display (also COGST 3420, PSYCH 6420, VISST 3342)**

Fall. 3 or 4 credits; 4-credit option involves term paper. Highly recommended: PSYCH 2050. Graduate students, see PSYCH 6420.  
D. J. Field.

Our present technology allows us to transmit and display information through a variety of media. To make the most of these media channels, it is important to consider the limitations and abilities of the human observer. The course considers a number of applied aspects of human perception with an emphasis on the display of visual information. Topics include "three-dimensional" display systems, color theory, spatial and temporal limitations of the visual systems, attempts at subliminal communication, and "visual" effects in film and television.

**PSYCH 3470 Psychology of Visual Communications (SBA-AS)**

Spring. 3 credits. Limited to 15 students.

Prerequisites: PSYCH 1101 and permission of instructor. J. B. Maas.

Exploration of theories of education, communication, perception, attitude, and behavior change as they relate to the effectiveness of visually based communication systems. Emphasis is on the use of photography and computer graphics to deliver educational messages. A digital camera with manual control of f-stops and shutter speed is mandatory.

**PSYCH 3500 Statistics and Research Design (MQR)**

Fall, summer (three-week). 4 credits.

Limited to 120 students. Staff.

Acquaints the student with the elements of statistical description (e.g., measures of average, variation, correlation) and, more important, develops an understanding of statistical inference. Emphasis is placed on those statistical methods of principal relevance to psychology and related behavioral sciences.

**[PSYCH 3610 Biopsychology of Normal and Abnormal Behavior (also NS 3610) (PBS: Supplementary List)**

Spring. 3 credits. Limited to 50 students in psychology and 50 students in nutritional sciences. Prerequisites: junior or senior standing; introductory biology and introductory psychology or permission of instructor. S-U or letter grades. Next offered 2010-2011. B. J. Strupp.

For description, see NS 3610.]

**[PSYCH 3800 Social Cognition (SBA-AS)**

Fall. 3 credits. Prerequisites: junior or senior standing; PSYCH 2800. Next offered 2010-2011. M. Ferguson.

What are the causes and consequences of our own and other's judgments, feelings, attitudes, and behaviors? This course introduces students to social cognition, which is a research perspective that uses both cognitive and social psychological theories and methodologies to explain such social phenomena.]

**PSYCH 3850 The Psychology of Emotion (SBA-AS)**

Spring. 3 credits. D. Pizarro.

We've all been mad, sad, happy, and disgusted. Some of us get nostalgic at times, and some of us are easily embarrassed. We've been feeling these emotions nearly our whole lives, and this makes us all emotion experts of a sort.

Nonetheless, these feelings can be mysterious. Where do they come from? Do people across all cultures experience similar emotions? How can we regulate our emotions? Do emotions make us less rational? Do they make us smarter? What triggers certain emotions? Are there gender differences in emotions? The science of emotion is fairly young, but there has been an enormous amount of progress in understanding emotional phenomena in the last few decades. In this course, we will tackle the aforementioned questions and more. By the end of the course you should be familiar with the most influential theories of emotion—from the evolutionary explanations of emotion to the developmental and social factors involved in making us emotional creatures. So while we are all intuitive experts on emotion, by the end of the course you will have a different kind of expertise—one grounded in the most recent scientific discoveries in this exciting field.

**[PSYCH 3960 Introduction to Sensory Systems (also BIONB 3960) (PBS)**

Spring. 4 credits. Limited to 35 students.

Next offered 2011-2012. B. P. Halpern.

Somesthetic, auditory, and visual system neuroscience principles and methods of study are taught using the Socratic method. Original literature read and discussed.]

**[PSYCH 4050 Intuitive Judgment (SBA-AS)**

Fall. 4 credits. Limited to 18 students by

application. Priority given to senior psychology majors. Prerequisites: at least one course in each of social and cognitive psychology. Next offered 2010-2011.

T. Gilovich.

This course examines classic and contemporary scholarship on the subject of how people make judgments and decisions in their everyday and professional lives.]

**PSYCH 4101 Undergraduate Seminar in Psychology**

Fall or spring. 2 credits. Priority given to psychology majors. Staff.

Information on specific sections for each semester, including instructor, prerequisites, and time and place, may be obtained from the Department of Psychology office, 211 Uris Hall.

**PSYCH 4120 Laboratory in Cognition and Perception (also COGST 4120, PSYCH 6121) (KCM-AS)**

Spring. 4 credits. Limited to 15 students.

Prerequisite: statistics and one course in cognition or perception recommended. Graduate students, see PSYCH 6120.

D. J. Field.

Laboratory course designed to introduce students to experimental methods in perception and cognitive psychology. Students take part in a number of classic experiments and develop at least one independent project. Computers are available and used in many of the experiments although computer literacy is not required. Projects are selected from the areas of visual perception, pattern recognition, memory, and concept learning.

**PSYCH 4180 Psychology of Music (also MUSIC 4181, PSYCH 6180) (KCM-AS)**

Fall. 3 or 4 credits, depending on whether student elects to do independent project.

Intended for upper-level students in music, psychology, engineering, computer science, linguistics, physics, anthropology, biology, and related disciplines. Some music background desirable but no specific musical skills required. Graduate students, see PSYCH 6180. C. L. Krumhansl.

Covers the major topics in the psychology of music treated from a scientific perspective. Reviews recent developments in the cognitive science of music, beginning with music acoustics and synthesis, and extending to music and its emotional and social effects.

**PSYCH 4200 Advanced Neurobiology Learning and Memory (also PSYCH 6200) (KCM-AS)**

Spring. 3 credits. Prerequisites: PSYCH 2230 or HD 2200 and BIONB 2220. Offered alternate years. D. Smith.

This seminar will examine the neural mediation of learning and memory processes, broadly defined to include simple and complex forms of learning in humans and animals. After a historical overview, students will discuss cutting edge literature on the brain mechanisms of learning and memory. Topics will be decided upon by the participants and may include the cellular

mechanisms of plasticity (e.g., LTP), neural circuits involved in Pavlovian conditioning and instrumental learning, spatial memory, emotional memory, working memory, episodic and semantic memory.

**PSYCH 4230 Navigation, Memory, and Context: What Does the Hippocampus Do? (also PSYCH 6230) (SBA-AS)**

Spring. 3 credits. Prerequisites: intended for juniors, seniors, and graduate students.

Offered alternate years. D. Smith.

Although the hippocampus has been the subject of intense scrutiny for nearly 50 years, there remains considerable disagreement about functional contributions the hippocampus makes to learning and memory process. This seminar will examine the diverse functions attributed to the hippocampus with an eye toward integrating the differing viewpoints in the literature. After a brief historical overview, students will discuss cutting-edge literature on the hippocampal role in spatial navigation, learning, and memory, and context processing.

**PSYCH 4240 Neuroethology (also BIONB 4240) (PBS)**

Fall. 4 credits. Prerequisites: BIONB 2210 or 2220 or BIOG 1101-1102 and permission of instructor. S-U or letter grades. disc, one hour each week.

C. D. Hopkins.

For description, see BIONB 4240.

**[PSYCH 4250 Cognitive Neuroscience (also BIONB 4230, PSYCH 6250) (KCM-AS)**

Fall. 4 credits. Prerequisites: introductory biology; biopsychology or neurobiology (e.g., PSYCH 2230 or BIONB 2210, 2220); and an introductory course in perception, cognition, or language (e.g., PSYCH 1102, 2090, 2140, or 2150). Graduate students, see PSYCH 6250. S-U or letter grades. Offered alternate years; next offered 2010-2011. B. L. Finlay.

Studies the relationship between structure and function in the central nervous system, stressing the importance of evolutionary and mechanistic approaches for understanding the human behavior and cognition.]

**[PSYCH 4260 Learning Language (also COGST 4260, PSYCH 7260) (KCM-AS)**

Spring. 4 credits. Prerequisite: PSYCH 1140 or permission of instructor. Letter grades only. Next offered 2010-2011. S. Edelman.]

**PSYCH 4270 Evolution of Language (also COGST 4270, PSYCH 6270)**

Fall. 3 credits. Prerequisite: junior or senior standing; any one course in psychology or human development. Graduate students, see PSYCH 6270. S-U or letter grades.

Offered alternate years. M. Christiansen.

Seminar surveying a cross-section of modern theories, methods, and research pertaining to the origin and evolution of language. Considers evidence from psychology, the cognitive neurosciences, comparative psychology, and computational modeling of evolutionary processes. Topics for discussion may include: What does the fossil record tell us about language evolution? What can we learn from comparative perspectives on neurobiology and behavior? Can apes really learn language? Did language come about through natural selection? What were the potential preadaptations for language? What is the relationship between phylogeny and ontogeny?

**[PSYCH 4280 Connectionist Psycholinguistics (also COGST 4280, LING 4428/6628, PSYCH 6280)]**

Fall. 3 credits. Prerequisite: senior standing or permission of instructor. Graduate students, see PSYCH 6280. Offered alternate years; next offered 2010–2011. T. M. Christiansen.]

**[PSYCH 4290 Olfaction and Taste: Structure and Function (also BIONB 4290, PSYCH 6290) (PBS)]**

Spring. 4 credits. Next offered 2010–2011. B. Halpern.

Explores structural and functional characteristics of smelling and tasting by reading and discussing current literature in these areas, using the Socratic method.]

**[PSYCH 4300 Moral Reasoning (also PSYCH 6300) (SBA-AS)]**

Fall. 4 credits. Prerequisites: open to junior and senior psychology majors and to graduate students; open to others by permission of instructor. Next offered 2010–2011. D. Pizarro.

In recent years there has been a resurgence of interest in the science of morality. Recently, scientists across a wide range of disciplines have made discoveries that bear on the question of how and why humans have a sense of morality. The goals of this course are to offer an introduction to the science behind our moral sense. In order to achieve this goal, we will read articles on almost every area of scientific psychology. By the end of the course you should be well versed in the primary issues and debates involved in the scientific study of morality.]

**PSYCH 4310 Effects of Aging on Sensory and Perceptual Systems (also BIONB 4210, PSYCH 6310) (PBS)**

Fall. 3 or 4 credits; 4-credit option involves term paper or creation of relevant web site. Limited to 35 students. Prerequisites: introductory biology or psychology, plus second course in perception, neuroscience, cognitive science. Graduate students, see PSYCH 6310. B. P. Halpern.

Literature-based examination of post-maturation changes in the perceptual, structural, and physiological characteristics of somesthetic, visual, auditory, and chemosensory systems. Emphasis is on human data, with nonhuman information included when especially relevant. Quality of life issues are included. Current developments in human sensory prosthetic devices, and in regeneration or replacement of receptor structures or organs are examined. Brief written statements by e-mail of questions and problems related to each set of assigned readings are required in advance of each class meeting and are automatically distributed to all members of the class. This course is taught using the Socratic method, in which the instructor asks questions of the students. Student responses will be made using clickers, which will be used only for responses to questions and not for attendance or grading (<http://atc.cit.cornell.edu/course/polling/clickers.cfm>). Students read, analyze, and discuss in class difficult original literature dealing with the subject matter of the course. Students are expected to come to each class having already done and thought about the assigned readings, and to take an active part in every class. All examinations are take-home.

**PSYCH 4340 Sensory Construction (also PSYCH 6364)**

Spring. 3 credits. Prerequisites: one introductory course in neurobiology (PSYCH 2230 or BIONB 2220) and one intro course in perception or cognition (PSYCH 1102, 2050, 2090, or 2140) or permission of instructor. T. Cleland.

Is it true that everything you encounter is stored somewhere in your memory, if only you could recall it? How does that information get into your brain in the first place? This course investigates how coherent sensory percepts are constructed from the physical features of sensory stimuli, the properties of animal sensors and neural circuits, the active allocation of cognitive and physiological resources to selective sampling, and the integration of sampled data, prior knowledge, and expectations. Emphasis is placed on integrating multiple approaches—including biophysical, neurobiological, evolutionary, cognitive, social, and legal—to the problem of complex perception, cognition and memory.

**[PSYCH 4350 Olfaction, Pheromones, and Behavior]**

Fall. 4 credits. Prerequisites: introductory biology and course in neurobiology and behavior or biopsychology or 3000-level course in biopsychology or permission of instructor. Offered alternate years. R. Johnston.

Covers chemical signals, olfaction, and behavior in vertebrates (including humans), as well as the neurobiology of olfaction and odor-mediated behaviors. Behavioral topics may vary from year to year but include evaluation of and advertisement for mates, aggression and territorial behavior, parental-young interactions, social recognition (species, sex, individual, kin reproductive state, status), memory for odors, odor and endocrine interactions, imprinting, and homing and navigation. Basic aspects of the structure and function of the olfactory system are also covered, including the molecular biology of chemo-reception, olfactory coding, and higher-order processing in the central nervous system. The format includes lectures, discussions, and student presentations.]

**PSYCH 4360 Language Development (also COGST/HD 3370, LING 4436) (KCM-AS)**

Fall. 4 credits. Open to undergraduate and graduate students. Graduate students should also enroll under HD 6330/LING 4700/PSYCH 6000, supplemental graduate seminar. Prerequisite: at least one course in developmental psychology, cognitive psychology, cognitive development, or linguistics. S–U or letter grades. B. Lust. For description, see HD 3370.

**PSYCH 4370 Lab Course: Language Development (also COGST 4500, HD 4370, LING 4450)**

Spring. 2 credits. Offered in conjunction with COGST/HD 4360 and LING 4436, Language Development. R. B. Lust. Optional supplement to the survey course Language Development (HD 3370, COGST/LING/PSYCH 4360). Provides students with a hands-on introduction to scientific research, including design and methods, in the area of first-language acquisition. For description, see COGST 4500.

**PSYCH 4380 Social Neuroscience**

Fall. 4 credits. Prerequisite: PSYCH 2230, 3220, 3320, or 3260. B. Johnston.

Comparative approach to the neural and endocrine mechanisms of social behavior in animals and humans. Species similarities and differences in these mechanisms related to evolved differences in social organization and mating systems. In humans, mechanisms related to difficulties with social interaction and behavior such as Asperger's syndrome, autism, and social anxiety psychopathology.

**PSYCH 4400 To Sleep, Dream, and Remember (also PSYCH 6400)**

Fall. 4 credits. Prerequisites: at least PSYCH 2230 or BIONB 2210. Recommended: additional course in biology, biopsychology, or neurobiology. S–U or letter grades. Graduate students, see PSYCH 6400. H. S. Porte.

What brain events instigate, maintain, and switch the states of sleep? How does the brain construct a dream? What brain events produce and sustain a night terror? Does the sleeping brain work for memory or against it? These questions will be considered as problems in cognitive neuroscience. Students must be conversant with brain anatomy and brain physiology.

**PSYCH 4410 Laboratory in Sleep Research (also PSYCH 6410)**

Spring. 4 credits. Lab fee: \$50. Graduate students, see PSYCH 6410. H. S. Porte.

Emphasizing the neurobiology of sleep state, this course introduces students to the laboratory study of human sleep and its psychological correlates. Serving as both experimenter and subject, each student learns the physical rationale and techniques of electroencephalography and other bioelectric measures of behavioral state. Analyzing data they have collected themselves, students work in small groups to complete a collaborative term project. Overnight sleep recording sessions are required.

**[PSYCH 4440 Neural Computation (also BIONB 4440) (PBS)]**

Spring. 3 credits. Limited to 10 students. Prerequisites: PSYCH 2230 or BIONB 2220, or permission of instructor. S–U or letter grades. Offered alternate years; next offered 2010–2011. T. Cleland.

Lecture and computer lab course covering the biophysical mechanisms underlying neural computation and information coding by neurons and networks. Students will study and develop computational models of single neurons and small neural networks. An independent modeling project will be required.]

**PSYCH 4520 Trauma and Treatment (also PSYCH 6520) (SBA-AS)**

Fall. 4 credits. Limited to 10 students; priority given to senior psychology and human development majors. Prerequisite: course work in both psychopathology and social development; permission of instructor by e-mail application during preregistration. Letter grades only. S. Bem.

An in-depth examination of psychological trauma and its treatment in psychotherapy. Special attention is given to the neuroscience of danger, defense, and emotional dysregulation, the effects of early traumatic attachment on development, the key role of dissociation, and an array of treatments including dialectical behavior therapy, play therapy, sensorimotor therapy, gestalt therapy, and psychoanalytic therapy.

**PSYCH 4650 Topics in High-Level Vision: Embodied Cognition (also COGST 4650, PSYCH 6650) (KCM-AS)**

Spring. 4 credits. Graduate students, see PSYCH 6650. Offered alternate years. S. Edelman and M. Goldstein.

High-level vision is a field of study concerned with functions such as visual object recognition and categorization, scene understanding, and reasoning about visual structure. It is an essentially cross-disciplinary endeavor, drawing on concepts and methods from neuroanatomy and neurophysiology, cognitive psychology, applied mathematics, computer science, and philosophy. This course concentrates on a critical examination of a collection of research publications, linked by a common thread, from the diverse perspectives offered by the different disciplines. Students write biweekly commentaries on the assigned papers and a term paper integrating the material covered in class.

**PSYCH 4700 Undergraduate Research in Psychology**

Fall or spring. 1-4 credits. Prerequisite: written permission from staff member who will supervise the work and assign grade must be included with course enrollment material. Students should enroll in section listed for that staff member; section list available from Department of Psychology. S-U or letter grades. Staff.

Practice in planning, conducting, and reporting independent laboratory, field, and/or library research.

**PSYCH 4710 Advanced Undergraduate Research in Psychology**

Fall or spring. 1-4 credits. Prerequisite: written permission of staff member who will supervise work and assign grade must be included with course enrollment material. Students should enroll in sec listed for that staff member; sec list available from Department of Psychology. S-U or letter grades. Staff.

Advanced experience in planning, conducting, and reporting independent laboratory, field, and/or library research. One, and preferably two, semesters of PSYCH 4700 is required. The research should be more independent and/or involve more demanding technical skills than that carried out in PSYCH 4700.

**[PSYCH 4780 Parenting and Child Development (also HD 4440, PSYCH 6780) (KCM-AS)]**

Fall. 4 credits. Limited to 25 students. Intended for seniors and graduate students. Graduate students, see PSYCH 678. Next offered 2010-2011. M. Goldstein.]

**PSYCH 4810 Advanced Social Psychology (also PSYCH 6810)**

Fall. 4 credits. Limited to 15 students, by application. Priority given to senior psychology majors. Graduate students, see PSYCH 6810. D. T. Regan.

The focus is on current readings, namely selected articles from very recent issues of the best social psychological journals. Readings are chosen for their importance, their readability, and the likelihood that they will generate stimulating discussion.

**PSYCH 4820 Automaticity (also PSYCH 6820) (SBA-AS)**

Spring. 4 credits. Prerequisites: PSYCH 2800; at least one course in cognitive psychology or permission of instructor. R. M. Ferguson.

What is automaticity? This is a topic that has gained considerable momentum in social psychology over the past 10 to 15 years and has been broadly applied to classic social psychological phenomena, including judgments, attitudes, emotion, motivation, and behavior. The crux of this momentum has been the controversial argument that such phenomena can occur without a person's awareness, intention, effort, or control. Although there is an abundance of empirical work on this topic, there still remain a number of unanswered and interesting questions. The objective of the course is twofold. The first is for students to learn the automaticity literature in social psychology; the second is to identify such critical questions, and speculate on possible answers. The course reviews the wide range of theoretical and empirical work on automaticity and examines contemporary definitions of automaticity within social and other areas of psychology. The analysis of automaticity is necessarily closely linked with issues such as unconscious vs. conscious processing, attention, control, intentionality, and free will.

**PSYCH 4850 The Self (also PSYCH 6850) (SBA-AS)**

Spring. 4 credits. Limited to 15 students. Prerequisite: PSYCH 2750 or 2800 or permission of instructor, with priority given to seniors and graduate students. D. Dunning.

An enduring task in psychological inquiry has been to survey the ways in which a person's self-image influences emotion, thought, and action. What is self-esteem, and is it a good or a bad thing? How do concerns over self-image motivate people? Do people really know themselves accurately? How does a person's sense of self develop, and does it differ across cultures? Students will be introduced to these and other topics by reading original research articles, and should expect to take part in class discussions of the issues raised.

**PSYCH 4910 Research Methods in Psychology (also COGST 4910, COGST/PSYCH 6910)**

Spring. 4 credits. Limited to 15 students. Prerequisite: permission of instructor. V. Zayas.

Research methods are the tools that allow psychologists to test the validity of hypotheses. This course provides a survey of the methods used by scientists in personality and social psychology as well as related behavioral sciences to empirically test hypotheses. Specifically, this course will discuss the following topics: (i) philosophy of science, (ii) research designs and methods, (iii) data collection, analysis, and validity, (iv) report writing, and (v) recurrent and emerging trends and issues in the field of research methods and quantitative analysis. Students concentrate on completing a small research project in which they conduct an experiment, interpret its data, and write up the results.

**[PSYCH 4920 Sensory Function (also BIONB 4920, PSYCH 6920) (PBS)]**

Spring. 4 credits. Limited to 25 students. Prerequisite: 3000-level neuroscience course, or BIONB 2220 or BIOAP 3110, or equivalent; knowledge of elementary physics, chemistry, and behavior. S-U or letter grades. Graduate students, see PSYCH 6920. Offered alternate years; next offered 2010-2011. B. P. Halpern and H. C. Howland.

In general, this course has covered classical topics in sensory function such as vision, hearing, touch, and balance, as well as some more modern topics like sensory processing, location of stimulus sources in space, the development of sensory system, and nonclassical topics such as electroreception and internal chemoreceptors.]

**PSYCH 5310 Consciousness and Free Will (also BIONB 4330, COGST 4310)**

Spring. 4 credits. Prerequisite: COGST/INFO/PSYCH 2140/6140. S. Edelman. For description see COGST 4310.

**Advanced Courses and Seminars**

Advanced seminars are primarily for graduate students, but with the permission of the instructor they may be taken by qualified undergraduates. The selection of seminars to be offered each semester is determined by the needs of the students.

A supplement describing these advanced seminars is available at the beginning of each semester and can be obtained from the department office (211 Uris Hall). The following courses may be offered either semester and carry 4 credits unless otherwise indicated.

**PSYCH 6000 General Research Seminar****PSYCH 6050 Perception (also PSYCH 2050)**

Fall. 4 credits. Non-arts graduate students only. J. E. Cutting.

**PSYCH 6100-6110 Perception****PSYCH 6120 Perception Lunch Seminar**

Spring and fall. J. Cutting.

**PSYCH 6121 Laboratory in Cognition and Perception (also PSYCH 4120)**

Spring. 4 credits. D. J. Field.

**PSYCH 6140 Cognitive Psychology (also COGST/PSYCH 2140, COGST 6140)**

Spring. 4 credits. S. Edelman.

**PSYCH 6180 Psychology of Music (also MUSIC 4181, PSYCH 4180)**

Fall. 4 credits. C. Krumhansl.

**PSYCH 6181 Topics in Psycholinguistics****PSYCH 6200 Advanced Neurobiology and Memory**

Spring. 3 credits. D. Smith.

**PSYCH 6210 Behavioral and Brain Sciences**

Fall and spring. 4 credits each semester.

**PSYCH 6220 Topics in Perception and Cognition****PSYCH 6230 Navigation, Memory, and Context: What Does the Hippocampus Do? (also PSYCH 4230)**

Spring. 4 credits. D. Smith.

**[PSYCH 6250 Cognitive Neuroscience (also PSYCH 4250)]**

Fall. 4 credits. Next offered 2010-2011. B. L. Finlay.]

**PSYCH 6270 Evolution of Language (also COGST/PSYCH 4270)**

Fall. 3 credits. M. Christiansen.

**PSYCH 6271 Topics in Biopsychology**

Fall or spring. Staff.

- [PSYCH 6280 Connectionist Psycholinguistics (also COGST/PSYCH 4280, LING 4428/6628)]**  
Fall. 3 credits. Next offered 2010–2011. M. Christiansen.]
- PSYCH 6290 Olfaction and Taste: Structure and Function (also BIONB/PSYCH 4290)**  
Spring. 4 credits. B. P. Halpern.
- [PSYCH 6300 Moral Reasoning (also PSYCH 4300)]**  
Fall. 4 credits. Next offered 2010–2011. D. Pizarro.  
For description, see PSYCH 4300.]
- PSYCH 6310 Effects of Aging on Sensory and Perceptual Systems (also BIONB 4210, PSYCH 4310)**  
Fall. 4 credits. B. P. Halpern.
- PSYCH 6320 Biopsychology of Learning and Memory (also BIONB 3280, PSYCH 3320)**  
Spring. 4 credits. T. J. DeVoogd.
- PSYCH 6340 Sensory Construction (also PSYCH 4340)**  
Spring. 3 credits. T. Cleland.
- PSYCH 6350 Evolutionary Perspectives on Behavior**
- PSYCH 6400 To Sleep, Dream, and Remember (also PSYCH 4400)**  
Fall. 4 credits. H. S. Porte.
- PSYCH 6410 Laboratory in Sleep Research (also PSYCH 4410)**  
Spring. 4 credits. H. S. Porte.
- PSYCH 6420 Human Perception: Applications to Computer Graphics, Art, and Visual Display (also PSYCH/COGST 3420, VISST 3342)**  
Fall. 4 credits. D. J. Field.
- PSYCH 6430 Statistics in Current Psychological Research**
- [PSYCH 6500 Special Topics in Cognitive Science (also COGST 5500)]**
- PSYCH 6520 Trauma and Treatment (also PSYCH 4520)**  
Fall. 4 credits. S. Bem.
- PSYCH 6650 Topics in High-Level Vision (also PSYCH/COGST 4650)**  
Spring. 4 credits. Offered alternate years. S. Edelman.
- [PSYCH 6780 Parenting and Child Development (also PSYCH 4780, HD 4440)]**  
Fall. 4 credits. Next offered 2010–2011. M. Goldstein.]
- PSYCH 6800 Experimental Social Psychology**
- PSYCH 6810 Advanced Social Psychology (also PSYCH 4810)**  
Fall. 4 credits. D. T. Regan.
- PSYCH 6820 Automaticity (also PSYCH 4820)**  
Spring. 4 credits. M. Ferguson.
- PSYCH 6830 Affects and Cognition**  
Fall. 4 credits. A. M. Isen.
- PSYCH 6850 The Self (also PSYCH 4850)**  
Spring. 4 credits. D. Dunning.
- PSYCH 6910 Research Methods in Psychology (also COGST/PSYCH 4910)**  
Spring. 4 credits. V. Zayas.

**[PSYCH 6920 Sensory Function (also BIONB/PSYCH 4920)]**  
Spring. 4 credits. Offered alternate years, next offered 2010–2011. B. P. Halpern and H. C. Howland.]

**[PSYCH 6960 Introduction to Sensory Systems (also BIONB/PSYCH 3960)]**  
Spring. 4 credits. Next offered 2011–2012. B. P. Halpern.]

**PSYCH 7000 Research in Biopsychology**

**PSYCH 7090 Developmental Psychology (also PSYCH 2090)**  
Spring. 4 credits. M. Goldstein.

**PSYCH 7100 Research in Human Experimental Psychology (also COGST 7100)**

**PSYCH 7130 Information Processing: Conscious and Nonconscious**  
Spring. 4 credits. R. Staff.

**PSYCH 7160 Auditory Perception (also PSYCH 3160)**  
Spring. 4 credits. C. L. Krumhansl.

**PSYCH 7200 Research in Social Psychology and Personality**

**[PSYCH 7220 Hormones and Behavior (also BIONB/PSYCH 3220)]**  
Fall. 4 credits. Next offered 2010–2011. E. A. Regan.]

**PSYCH 7260 Learning Language (also COGST/PSYCH 4260)**  
Spring. 4 credits. S. Edelman.

**PSYCH 7750 Proseminar in Social Psychology I**

Fall. 2 credits. Limited to 10 students. Prerequisite: graduate students in social psychology; permission of instructors. D. Dunning, M. Ferguson, T. Gilovich, D. Pizarro, and D. Regan.

First semester of a yearlong discussion-seminar course intended to give graduate students an in-depth understanding of current research and theory in social psychology. Emphasizes social cognition, but other topics, such as group dynamics, social influence, the social psychology of language, and emotional experience, are covered.

**PSYCH 7760 Proseminar in Social Psychology II**

Spring. 2 credits. Limited to 10 students. Prerequisite: graduate students in social psychology; permission of instructors. D. A. Dunning, M. Ferguson, T. D. Gilovich, D. Pizarro, and D. T. Regan.

Second semester of a yearlong discussion-seminar course intended to give graduate students an in-depth understanding of current research and theory in social psychology. Emphasizes social cognition, but other topics, such as group dynamics, social influence, the social psychology of language, and emotional experience are covered.

**PSYCH 9000 Doctoral Thesis Research in Biopsychology**

**PSYCH 9100 Doctoral Thesis Research in Human Experimental Psychology**

**PSYCH 9200 Doctoral Thesis Research in Social Psychology and Personality**

### Summer Session Courses

The following courses are also frequently offered in the summer session, though not necessarily by the same instructor as during

the academic year. Not all of these courses are offered in a particular summer. Information regarding these courses and additional summer session offerings in psychology is available from the department before the end of the fall semester.

PSYCH 1101 Introduction to Psychology: The Frontiers of Psychological Inquiry

PSYCH 1102 Introduction to Cognitive Science

PSYCH 1128 Introduction to Psychology: Personality and Social Behavior

PSYCH 1990 Sports Psychology

PSYCH 2230 Introduction to Biopsychology

PSYCH 2800 Introduction to Social Psychology

PSYCH 3500 Statistics and Research Design

### RELIGIOUS STUDIES MAJOR

D. Boucher, director; A. Blackburn, R. Brann, C. M. Carmichael, A. Chignell, K. Clinton, L. Donaldson, J. Fajans, D. Fredericksen, D. Gold, S. Greene, K. Haines-Eitzen, J. S. Henderson, T. D. Hill, T. J. Hinrichs, D. Holmberg, P. R. Hyams, W. J. Kennedy, J. M. Law, S. MacDonald, K. S. March, L. Monroe, R. L. Moore, D. I. Owen, D. S. Powers, C. Robinson, P. S. Sangren, S. Toorawa, M. Washington, A. Willford

The Religious Studies Program, an academic unit providing a major in the scholarly study of religion, offers a wide variety of courses addressing various approaches to, and topics in, the study of religion.

The Religious Studies Program is designed to meet the needs of three classes of students: (1) students planning to pursue advanced degrees in the academic study of religion or allied disciplines or subdisciplines (e.g., history of religions, religion and literature, religion and psychology, ethics, theology, area studies); (2) students seeking courses on topics relating to religion to fulfill distribution requirements; and (3) students desiring a more systematic exposure to the academic study of religion as a significant component of a liberal arts education. To all students, our program offers an excellent opportunity to develop a deeper understanding and appreciation of the complex ways in which religious traditions inform human thought and behavior. The courses offered through our program are built on the established scholarly tradition of the study of religion as an academic, as opposed to confessional, pursuit. Religious traditions are explored in all of their complexity through comparative, contextual (in specific historical or cultural contexts), and thematic studies.

The program also hosts lecture series, conferences, symposia, and periodic social gatherings for faculty members and students throughout the academic year to foster a sense of intellectual community.

### The Major in Religious Studies

**Signing into the major:** To sign into the major in Religious Studies, a student must have completed at least one course in

Religious Studies before scheduling an appointment with the program director. Here is the process:

1. Schedule an appointment with the director of the Religious Studies Program, whose name and e-mail address can be found on the Religious Studies web site.
2. In addition to a copy of the current Cornell transcript (the informal one students regularly receive is acceptable), students should bring to their meeting with the director all of these forms, available in the Religious Studies office, 409 White Hall:
  - a. a completed Religious Studies major application form
  - b. a proposed "course of study," which will be used as a guide in the student's conversation with the director and revised for formal submission to the program upon your entrance as a major
  - c. a College of Arts and Sciences advisor/major form, which will be signed by the director and advisor. The advisor will be assigned in the student's meeting with the director based on interest.

#### Advising in the Religious Studies Program:

Upon entering the major in Religious Studies, a student is assigned a faculty advisor whose area of expertise most closely matches the proposed interest of the student. An up-to-date approved advisor list is available in the Religious Studies office. Note that not all faculty members who cross-list courses with RELST can serve as RELST advisors. Working closely with one's RELST advisor when selecting courses is an important component of this program, enabling students to fulfill the requirements for the major while creating an integrated and coherent course of study out of our large number of multidisciplinary course offerings.

To graduate as a major in Religious Studies, a student must (1) complete with letter grades the program's three core courses, RELST 2250 Introduction to Asian Religions, RELST 2651 Holy War, Crusade and Jihad, and RELST 4449 History and Methods of the Academic Study of Religion; and (2) complete with letter grades seven additional courses approved for the major.

Students must complete 10 courses cross-listed with Religious Studies:

#### Three Core Courses:

RELST 2250 Introduction to Asian Religions  
RELST 2651 Holy War, Crusade and Jihad  
RELST 4449 History, Theory, and Methods in the Academic Study of Religion

The requirement for either or both RELST 2250/2651 may be satisfied by taking two or more courses in the relevant traditions with some attention to breadth:

The requirement for RELST 2250 may be satisfied by taking at least one course on South Asian traditions AND one course on East Asian traditions.

The requirement for RELST 2651 may be satisfied by taking at least one course in each of two or more of the traditions of Near Eastern origin (Judaism, Christianity, and Islam).

Absolutely no student will be exempted from RELST 4449.

#### Seven Additional Courses

In selecting their additional courses for the major, students are expected to consult closely with their advisors to ensure that their programs have adequate breadth in Religious Studies generally and depth in a particular tradition, cultural area, or approach to the field.

Most courses approved for the major are offered by cooperating departments within the College of Arts and Sciences. A comprehensive up-to-date list of these courses is maintained at the office of the Religious Studies Program, 409 White Hall.

#### Graduating with Honors in Religious Studies:

##### General Information

1. **Eligibility.** 3.0 cumulative average and 3.5 average inside the major with no grade in the major below B-. Program director notifies eligible candidates during the spring semester of the junior year or before commencement of final year.
2. **Honors Courses.** Candidates must sign into RELST 4995 Senior Honors Essay for 8 credits (two courses) for two semesters. After the first semester, an R in the transcript indicates that this course (usually for 8 credits) is a yearlong course. When the project is completed at the end of the second semester, the grade recorded counts for all 8 credits. (The 8-credit limit is the result of the conviction that earning more than 8 credits for a single piece of one's undergraduate education is unwise.)

The student submits the honors proposal (with and according to the program's instruction/cover sheet) to the Religious Studies administrator before the end of the spring semester of the junior year, or not later than Sept. 15 of the final year. The administrator then approves the student's signing into the honors courses.

3. **Honors Committee—three faculty members.** While students are required to have three faculty members on their committee at the time of the submission of the final draft, only two of them must be identified when the proposal is submitted. In the event the advisor is on leave, the program will assign a committee member from the list of approved RELST advisors. The three members should be:
  - a. The professor who has agreed to work closely with the student over the year and to be the supervisor/grader of the project is chair of the committee.
  - b. The student's Religious Studies major advisor (required)
  - c. Another knowledgeable faculty member
 Sometimes the advisor is the supervisor/chair. If that is the case, the student needs two additional knowledgeable professors for the committee of three.

#### Courses Approved for the Major Sponsored by Religious Studies

**[RELST 2110 Black Religious Traditions: Sacred and Secular (also AMST/HIST 2110) (HA-AS)]**

Spring 4 credits. M. Washington.]

**RELST 2204 Introduction to Qu'ranic Arabic (also ASRC 2106, NES 2204)**

Spring. 4 credits. H. Al-Masri.

For description, see NES 2204.

**RELST 2250 Introduction to Asian Religions (also ASIAN 2250) @ # (HA-AS)**

Spring. 3 credits. D. Boucher.

For description, see ASIAN 2250.

**RELST 2277 Meditation in Indian Culture (also ASIAN 2277) @ # (CA-AS)**

Spring. 3 credits. D. Gold.

For description, see ASIAN 2277.

**[RELST 2420 Religion and Politics in American History (also HIST/AMST 2420) (HA-AS)]**

4 credits. Limited to 15 students.

Prerequisite: permission of instructor. Next offered 2010-2011. L. Moore.

For description, see HIST 2420.]

**RELST 2611 Prophecy in Ancient Israel (also JWST/NES 2611)**

Spring. 3 credits. L. Monroe.

For description, see NES 2611.

**RELST 2629 Intro to the New Testament (also CLASS 2613, JWST/NES 2629) @ # (HA-AS)**

Spring. 3 credits. K. Haines-Eitzen.

For description, see NES 2629.

**RELST 2630 Religion and Reason (also PHIL 2530) (KCM-AS)**

Spring. 4 credits. S. MacDonald.

For description, see PHIL 2530.

**RELST 2655 Intro to Islamic Civilization (also HIST 2530, NES 2655) @ # (HA-AS)**

Fall. 3 credits. D. Powers.

For description, see NES 2655.

**RELST 2724 Introduction to the Hebrew Bible (also JWST/NES 2724) @ # (LA-AS)**

Fall. 3 credits. L. Monroe.

For description, see NES 2724.

**RELST 3212 Qur'an and Commentary (also NES 3212) @ # (LA-AS)**

Spring. 4 credits. D. Powers.

For description, see NES 3212.

**RELST 3230 Myth, Ritual, and Symbol (also ANTHR 3420) @ (CA-AS)**

Spring. 4 credits. D. Holmberg.

For description, see ANTHR 3420.

**RELST 3260 Christianity and Judaism (also COML 3260) # (LA-AS)**

Spring. 4 credits. C. Carmichael.

For description, see COML 3260.

**RELST 3309 Temple in the World: Buddhism in Contemporary South and Southeast Asia (also ASIAN 3309)**

Spring. 3 credits. A. Blackburn.

For description, see ASIAN 3309.

**RELST 3351 Indian Religious Worlds (also ASIAN 3351) @ (CA-AS)**

Spring. 4 credits. D. Gold.

For description, see ASIAN 3351.

**RELST 3353 Mysticism in Chinese Religions (also ASIAN 3353) @ # (CA-AS)**

Fall. 4 credits. D. Boucher.  
For description, see ASIAN 3353.

**RELST 3359 Japanese Buddhism (also ASIAN 3359) @ # (HA-AS)**

Spring. 4 credits. J. M. Law.  
For description, see ASIAN 3359.

**RELST 3460 Modernization of the American Mind (also AMST/HIST 3460) (HA-AS)**

Fall. 4 credits. L. Moore.  
For description, see HIST 3460.

**RELST 3588 Biblical Archaeology (also JWST/NES 3588)**

Spring. 4 credits. L. Monroe.  
For description, see NES 3588.

**RELST 3629 Intro to the New Testament (also CLASS/JWST/NES 3629)**

Spring. 1 credits. K. Haines-Eitzen.  
For description, see NES 3629.

**RELST 3635 Christianization of the Roman World (also CLASS/HIST/NES 3625) @ # (HA-AS)**

Fall. 4 credits. E. Rebillard.  
For description, see CLASS 3625.

**RELST 3677 Search for the Historical Mohammad (also HIST/NES 3677)**

Spring. 4 credits. D. Powers.  
For description, see NES 3677.

**RELST 3731 Religion and Society in Early Modern Europe (also HIST 3731) # (HA-AS)**

Spring. 4 credits. D. Corpis.  
For description, see HIST 3731.

**RELST 4100 Latin Philosophical Texts (also PHIL 4002)**

Spring. Variable credits. S. MacDonald and C. Brittain.  
For description, see PHIL 4002.

**RELST 4102 Biblical Hebrew: Genesis (also JWST/NES 4102) @ # (LA-AS)**

Fall. 4 credits. L. Monroe.  
For description, see NES 4102.

**RELST 4260 New Testament Seminar (also COML 4260) # (HA-AS)**

Spring. 4 credits. C. Carmichael.  
For description, see COML 4260.

**RELST 4404 Japanese Buddhism: Experience and Ideology (also ASIAN 4405)**

Spring. 4 credits. J. M. Law.  
For description, see ASIAN 4405.

**RELST 4427 Buddhist Monasticism (also ASIAN 4427) @ # (CA-AS)**

Fall. 4 credits. D. Boucher.  
For description, see ASIAN 4427.

**RELST 4438 Monks, Texts, and Relics: Transnational Buddhism in South and Southeast Asia (also ASIAN 4438/6638) (CA-AS)**

Spring. 4 credits. A. Blackburn.  
For description, see ASIAN 4438.

**RELST 4449 History and Methods of the Academic Study of Religion (also ASIAN 4449) # (KCM-AS)**

Spring. 4 credits. Requirement for Religious Studies majors. J. M. Law and D. Boucher.  
For description, see ASIAN 4449.

**[RELST 4460 Indian Meditation Texts (also ASIAN 4460) @ # (KCM-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
D. Gold.  
For description, see ASIAN 4460.]

**RELST 4489 Religion and Sustainability (also ASIAN 4489)**

Fall. 4 credits. A. Blackburn.  
For description, see ASIAN 4489.

**RELST 4639 Readings in Arabic Historical Texts (also NES 4639) @ # (HA-AS)**

Spring. 4 credits. D. Powers.  
For description, see NES 4639.

**[RELST 4821 Religious and Secular in American Culture (also AMST/HIST 4821) (HA-AS)]**

Fall. 4 credits. Next offered 2010–2011.  
L. Moore.  
For description, see HIST 4821.]

**RELST 4823 Secular Disaffections: On Islam and the Politics of Emotion (also COML 4066, NES 4923, SHUM 4823)**

Fall. 4 credits. R. Mas.  
For description, see SHUM 4823.

**RELST 4931 Vitality and Power in China (also HIST/SHUM 4931, STS 4911)**

Spring. 4 credits. T. J. Hinrichs.  
For description, see SHUM 4931.

**RELST 4990–4991 Directed Study**

4990, fall; 4991, spring. 2–4 credits each semester. For majors in Religious Studies; permission of director required. Staff.

**RELST 4995 Senior Honors Essay**

Fall and spring (two semesters). 8 credits. Requirement for honors in Religious Studies. Staff.

**RELST 6020 Latin Philosophical Texts (also PHIL 6020)**

Fall. 4 credits. S. MacDonald and C. Brittain.  
For description, see PHIL 6020.

## ROMANCE STUDIES

G. Aching, T. Alkire, S. Amigo-Silvestre, M. Balsa (visiting), M. Baraldi, K. Bättig von Wittelsbach, M. Beviá, T. Beviá, B. Bosteels, T. Campbell, F. Cervesi, D. Castillo, D. Cruz de Jesús (associate chair), J. Culler (chair), L. Dubreuil, T. Fallman, D. Fieni (visiting), M. A. Garcés, M. Greenberg, L. Horne, C. Howie, P. Keller, R. Klein, C. Lawless, S. LoBello, K. Long, J. Luks, N. Maldonado-Méndez, T. McNulty, M. Migiel, J. Oliveira, J. E. Paz-Soldán, S. Pinet, M. K. Redmond, J. M. Rodríguez-García, J. Rautier-Pucci, K. Serafin, C. Sparfel, A. Stratakos-Tiós, B. Teutli, S. Tun, M. C. Vallois, C. Waldron, R. Welch (visiting). Emeriti: C. Morón Arroyo, J. Béreaud, A. Colby-Hall, N. Furman, A. Grossvogel, P. Lewis, A. Seznec. Adjunct Professor, Anne Berger, Adjunct Associate Professor: S. Tarrow.

The Department of Romance Studies offers courses in the following areas: French, Hispanic, Italian, and Luso-Brazilian literatures; French, Italian, Portuguese, and Spanish language; Francophone, Italian, Luso-Brazilian, and Hispanic cultures; and linguistics and semiotics. Through its course offerings and opportunities for independent study, the department seeks to encourage study of the

interactions of the Romance literatures among themselves, with other literatures, and with other fields of inquiry.

## French

T. Alkire, L. Dubreuil, D. Fieni (visiting), M. Greenberg, C. Howie, R. Klein, S. LoBello, K. Long, J. Luks, T. McNulty, C. Sparfel, S. Tun, M. C. Vallois, C. Waldron. Emeriti: J. Béreaud, A. Colby-Hall, N. Furman, D. I. Grossvogel, P. Lewis, A. Seznec. Adjunct Professor, Anne Berger, Adjunct Associate Professor: S. Tarrow

## The Major

French is a national language in 28 countries, and spoken widely in at least 18 more. The French brought the world the Bayeux Tapestry (arguably the world's first comic strip), Versailles, Impressionism, Surrealism, New Wave cinema, Poststructuralist Theory, and many other movements and works that have been influential for world culture.

The French major is designed to give students a core knowledge of the literature and culture of France and of Francophone countries, as well as a familiarity with the French language, all in a program flexible enough to suit each student's own interests. The program is designed to guide students through introduction to literature and culture, and surveys that further enhance their expertise and knowledge of the field, to advanced courses that allow them to pursue their specific interests in a more intense fashion. Working closely with an advisor, the student will be able to shape a coherent program that combines coverage of significant fields with a specialized interdisciplinary, theoretical, or cultural focus. The program is designed to hone research and analytical skills, as well as language skills.

The prerequisites for the French major are FREN 2190 (French Intermediate Composition and Conversation II) and FREN 2210 (Reading, Looking, Thinking: Introduction to Interpretation). Students admitted to the major are expected to take FREN 3210 (Readings in Modern Literature and Culture) and FREN 3220 (Readings in Early Modern Literature and Culture). They will then take six more courses to complete the major: an advanced language course (3010 or 3050, or above), and five literature or culture courses. Two of these literature/culture courses can be taken in related fields, if the course has a significant French component: French History, Art History, Government, Sociology, Linguistics, Philosophy, Visual Studies, etc.

Students are encouraged to study abroad, through Cornell-sponsored or Cornell-approved programs, such as EDUCO in Paris. When appropriate, this work can be counted toward the required course work for the major. Students should consult with the DUS of Romance Studies, the Study Abroad advising dean, and Cornell Abroad, as well as with their faculty advisor, before taking courses abroad, to assure that they are appropriate.

## Outline of the French Major

## Prerequisites

- (1) FREN 2190
- (2) FREN 2210
- (3) Advanced Language course—3010, 3050, or above (depending on placement)

**Core Courses**

- (4) FREN 3210  
(5) FREN 3220

**Other Courses (at least five more courses)**

- (6, 7, and 8)

Three of these courses must be in French (either taught in Romance Studies or in a Cornell-approved study abroad program in a Francophone country) AND be on French or Francophone subjects. Only courses above the level of FREN 3130 can count towards the major.

- (9 and 10)

Two courses may be in English and/or in related fields (History, Art History, Government, Anthropology, Sociology, etc.): 50 percent of the subject matter in these courses must be related to France or Francophone cultures (French history, etc.).

One of these courses must be on pre-1789 literature or culture, one must be on Francophone literature or culture, and one must be at the 4000 level. Please note that in some cases, one course may cover two of these requirements (for example, a 4000-level course may also be on a pre-1789 topic, such as Medieval or Early Modern literature).

**Administration of the French Major**

Students are admitted to the major by the director of undergraduate studies but are guided by their individual advisors. A copy of each student's progress is given to the director of undergraduate studies for approval and safe-keeping.

**Minor in French Studies**

Its purpose is to supplement a student's major with a complementary focus or concentration that is indicated on the graduate's transcript. The minor in French Studies, organized by the interdisciplinary Program in French Studies, is designed to be compatible with all kinds of majors and is open to students in all the undergraduate colleges. The minor promotes broad understanding of French culture, as well as Francophone literatures, societies, and their political/economic systems; it also encourages students to refine and practice their language skills. Students pursuing the minor must attain proficiency (by taking a placement exam or completing a 2000-level course in French) and must take the core course The French Experience (FREN 2240) or an approved equivalent of the core course (approved alternatives will be listed on the program web site). Students may also petition the program director to use an advanced course conducted in French as their core course. Completion of the Minor requires, in addition to the core, three non-language courses on French and Francophone topics. Only one of the four courses required for the minor can be taken S-U.

Applications for the minor are accessible at the French Studies web site, [www.einaudi.cornell.edu/french-studies/about/index.asp](http://www.einaudi.cornell.edu/french-studies/about/index.asp) and should be submitted to the Department of Romance Studies (303B Morrill Hall) or to Callean Hile at [chl2@cornell.edu](mailto:chl2@cornell.edu).

**Study Abroad in France**

French majors or other interested students may study in France for one or two semesters during their junior year. Opting for one of several study-abroad plans recognized by the Department of Romance Studies facilitates the transfer of credit. Information about these plans is available from the director of undergraduate studies.

Students must be Cornell undergraduates with a strong academic record. The minimum French preparation is the completion of FREN 2190 or its equivalent in advanced credit or placement by the Cornell CASE examination. Taking FREN 3010 or 3050, or even 3120 or 3130 is, however, strongly recommended. Students interested in Studying in France are encouraged to consider the special benefits offered by EDUCO, the program in Paris cosponsored by Cornell, Emory, and Duke Universities. EDUCO offers advanced students a challenging course of study and the experience of total immersion in French life and culture in Paris. Participants in this program may spend the year or semester as fully matriculated students at the Universities of Paris VII or IV and other institutions of higher learning in Paris, including the possibility of study at the Institut d'Etudes des Sciences Politiques (Sciences Po), selecting courses in many fields from the regular university course offerings. Students begin the academic year with an intensive three-week orientation in French history, society and daily life. While it is possible to enroll in the EDUCO Program for one semester, admission will be offered first to students planning to study abroad for the full academic year.

EDUCO maintains a center in Paris with full support staff. The resident director, chosen annually from the Cornell, Emory, and Duke faculties, teaches a special seminar each semester, provides academic advice, and helps ensure the quality of the courses. The center, which includes a small library and word-processing facilities, is regularly used by students for special tutorials, seminars, and lectures, as well as informal gatherings.

**Honors.** The honors program encourages well-qualified students majoring in French literature and culture to do independent work in French beyond the required course work for the major. The preparation of the senior honors essay, generally spread over two semesters, provides a unique learning opportunity, since it allows for wide reading and extensive rewriting to a degree not possible in the case of course papers.

To be eligible for honors, students must have a general grade point average of at least 3.00 and a grade point average of at least 3.5 in the French major.

No special seminars or courses are required of honors students, but they will have regular meetings with the faculty advisors who have agreed to supervise their work. They may receive course credit by enrolling in FREN 4290-4300, but these independent study courses must be taken in addition to the courses that meet the minimum requirements for the major. At the end of the senior year, each honors student is examined orally on the honors essay by a jury consisting of his or her faculty advisor and two other faculty members. The senior essay is to be made available for reading by the jury on or before April 15. The awarding of honors is

determined by the student's grades in the major and the quality of the honors essay.

**Courses in the French Program**

Enrollment in a language course is conditional upon the student's eligibility for the particular level and on attendance at the first scheduled class session. Because of the high demand for language courses, a student who fails to attend the first class meeting will be dropped so others may register.

Note: Students placed in the 2000-level course have the option of taking language and/or literature courses.

**FREN 1210-1220 Elementary French**

1210, fall; 1220, spring. 4 credits each term. Students who have previously studied French must have an LPF score lower than 37, or SAT II lower than 410, to be eligible for FREN 1210. Prerequisite for 1220: LPF score 37-44 or SAT II 410-480, FREN 1210. S. Tun (course coordinator) and staff. FREN 1210-1220 is a two-semester sequence of courses designed to provide a thorough grounding in French language and an introduction to intercultural competence as preparation for real-world application or eventual work in literary and/or cultural studies. Classes provide context- and genre-specific practice in speaking, listening, reading, writing, as well as analytical skills for grammar, with the goal of helping students to develop the necessary tools to become independent language learners.

**FREN 1230 Continuing French**

Fall or spring. 4 credits. Prerequisite: FREN 1220 or an LPF score of 45-55 or SAT II 490-590. Recommended courses after FREN 1230: FREN 2060 or 2090. C. Waldron (course coordinator) and staff. FREN 1230 is an all-skills course designed to improve pronunciation, oral communication, and reading ability; to establish a groundwork for correct writing; and to provide a substantial grammar review. The approach in the course encourages the student to see the language within the context of its culture.

**FREN 2060 French Intermediate Reading and Writing**

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: FREN 1230, LPF score 56-64, or SAT II 600-680. Conducted in French. Recommended courses after FREN 2060: FREN 2100, 2190 or 2210. Students who have taken FREN 2060 are not eligible to take FREN 2090 for credit. S. Tun.

This language course is designed for students who want to focus on their reading and writing skills. Emphasis is placed on grammar review and expansion, vocabulary development, and appreciation of different styles of language. Diverse text types are used, including a contemporary novel and student-selected material.

**FREN 2090 French Intermediate Composition and Conversation I**

Fall, spring, or summer. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: FREN 1230, LPF score 56-64, or SAT II 600-680. Recommended courses after FREN 2090: FREN 2100, 2190, or 2210. Students who have taken FREN 2090 are not eligible to take FREN 2060 for credit. C. Sparfel (course coordinator) and staff; summer: C. Waldron.

This intermediate-level course is designed for students who want to focus on their speaking and writing skills. Emphasis is placed on strengthening of grammar skills, expansion of vocabulary and discourse levels to increase communicative fluency and accuracy. The course also provides continued reading and listening practice as well as development of effective language learning strategies.

**FREN 2100 Pronunciation of Standard French**

Spring. 3 credits. **This course cannot serve to fulfill the language requirement.** Prerequisites: FREN 2060 or higher, or CASE Q+. T. Alkire.

This intermediate-level course focuses on accent reduction. Students will learn how to transcribe French sounds while simultaneously engaging in systematic listening and pronunciation exercises. The exercises target vowels, consonants and basic intonational patterns. Expressive intonation may be addressed near the end of the semester if time permits. Class work will include memorization of short dialogues and scenes from films. Students will achieve better pronunciation, greater fluency, and increased self-assurance in spoken French by the end of the course.

**FREN 2190 French Intermediate Composition and Conversation II**

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: FREN 2060 or 2090 or Q+ on the Cornell Advanced Standing Examination (CASE). Taught in French. FREN 2210 may be taken concurrently with 2190. Recommended courses after FREN 2190: FREN 2210, 3010, or 3050. S. LoBello (course coordinator) and staff.

This course emphasizes conversation based on short stories, poems, a play, a novel, newspaper articles, short videos and oral presentations by students. Improving grammatical accuracy and enriching vocabulary in oral and written expression of French occur in the lively classroom discussions, as well as through written and oral analyses of the readings, compositions on student-selected topics, and through grammar review. Themes and emphases may vary from section to section.

**FREN 2210 Reading, Looking, Thinking: Introduction to Interpretation (LA-AS)**

Fall or spring. 3 credits. *Satisfies Option 1 of language requirement.* Prerequisite: FREN 2060 or 2090 or CASE Q+. Conducted in French. Fall: T. McNulty and staff; spring: M. C. Vallois and staff.

Designed to introduce students to methods of textual analysis, through reading and discussion of works in various genres (narrative prose, drama, poetry) from the French and Francophone world. Emphasizes the development of analytical skills, in particular close readings by a variety of authors from different periods.

**FREN 2240 The French Experience (CA-AS)**

Fall. 4 credits. Conducted in English. L. Ferri.

An examination of French society, economy, and institutions through key moments in a long history, in order to figure out what made French culture so distinctive—even though some have claimed recently that the “French cultural exception is dead.” Looking attentively at texts and contexts (the bibliography will

include, e.g., Yves Lacoste’s *Vive la nation! / Long Live the Nation*, Jonathan Nossiter’s documentary film *Mondovino*, Mehdi Belhaj Kacem’s *La Psychose française, les banlieues*, and Ariel Kenig’s *Quitter la France/leaving France*, we will move beyond clichés, and attempt to understand how post-imperial France tries to adapt to the complex processes known as globalization and multiculturalism without losing its “national identity.” Special attention will be paid to the construction of Europe and to the notions of “European citizenship” and “European model.” Taught in English. Mandatory readings in French (book chapters, newspapers, an oral presentation in English or French, and a final paper (8,000 characters) in English.

**FREN 3010 Advanced French Composition and Conversation**

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: FREN 2190 or Q++ on the Cornell Advanced Standing Examination (CASE). Recommended courses after FREN 3010: FREN 2210, 3120, or above. FREN 2210 may also be taken concurrently with 3010. Students who have taken FREN 3050 are not eligible to take FREN 3010 for credit. Either FREN 3010 or 3050 is required for the major. S. LoBello (course coordinator) and staff.

In this course, oral communication skills, writing practice, and a comprehensive review of fundamental grammatical structures are integrated with the reading of short stories and articles on current events taken from French magazines or newspapers, chosen for thematic or cultural interest. Students write weekly papers (essays or translations) and give at least one oral presentation in class.

**FREN 3050 Advanced French through Film**

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: FREN 2190 or Q++ on the Cornell Advanced Standing Examination (CASE). Recommended courses after FREN 3050: FREN 2210, 3120 or above. FREN 2210 may also be taken concurrently with 3050. Students who have taken FREN 3010 are not eligible to take FREN 3050 for credit. Either FREN 3050 or FREN 3010 is required for the major. C. Waldron.

This language course provides students with opportunities to further develop their written and oral communication, as well as their listening and reading skills, through the use of French contemporary films, related readings, and presentations by guest speakers. Particular emphasis is given to the cultural and historical context within viewed films, as it relates to contemporary French society.

**FREN 3120 Advanced French Stylistics**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: FREN 3010 or 3050, or Q++ on the Cornell Advanced Standing Examination (CASE). Students who have taken FREN 3130 are not eligible to take FREN 3120 for credit. T. Alkire.

This course on stylistics and translation aims to help students develop a richer, more nuanced and idiomatic command of both the spoken and written language. Systematic study of grammar is discontinued as more attention is devoted to topics such as descriptive and prescriptive stylistics, authorial style, varieties of spoken and written French and their

literary representations, rhetorical figures, poetics, as well as translation theory and textual analysis. Writing exercises include pastiche, précis, explication de texte, an exercise de style, and theme. Additional exercises will target vocabulary development. Seminar-style participation in class discussions is expected, as are two oral presentations.

**FREN 3130 Advanced French through News**

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: FREN 3010 or 3050, or placement by Cornell Advanced Standing Examination (CASE). Students who have taken FREN 3120 are not eligible to take FREN 3130 for credit. C. Waldron.

This course prepares students for interacting at an advanced level of proficiency in both speaking and writing. Students will increase their vocabulary and knowledge of idiomatic French, while discussing and debating topics of current interest as they are presented in French televised news broadcasts and other media. A flexible approach allows students to improve their language skills on an individualized basis.

**FREN 3210 Readings in Modern French Literature and Culture (LA-AS)**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: FREN 2210, 3010, or 3050, or CASE Q++ placement. Conducted in French. L. Dubreuil.

This course is designed to teach ways of reading and understanding works created from the Romantic period to the present day, in their cultural context. A range of texts from various genres is presented, and students refine their analytical skills and their understanding of various methodologies of reading. Texts by authors such as Balzac, Baudelaire, Cixous, Duras, Genet, Mallarmé, Michaux, Proust, Rimbaud, Sarraute, Sartre.

**FREN 3220 Readings in Early Modern French Literature and Culture (LA-AS)**

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: FREN 2210, 3010, or 3050, or CASE Q++ placement. Conducted in French. M. Greenberg.

This course is designed to familiarize students with works from the Renaissance, the Classical period, and the Enlightenment, as well as the cultural and historical context in which these texts are created, reflecting a dynamic period of significant change for France. Texts by such authors as Ronsard, du Bellay, Montaigne, Molière, Marguerite de Navarre, Corneille, Diderot, de Lafayette, Racine, Perrault, Rousseau. Students may read texts in the original languages or in translation.

**FREN 3280 Medieval Francophone Literature**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: FREN 2210, 3010, or 3050, or CASE Q++ placement. C. Howie.

This course is dedicated to examining how medieval French literature was never really French in the first place. There was, after all, no political entity commensurate with modern France in the Middle Ages, and no unifying language with the symbolic power that French has, for better or worse, acquired in modernity. Nonetheless, linguistic differences mattered, and these differences were often

also political ones, distinguishing north from south and centers from margins. Through close readings of Anglo-Norman, Franco-Italian, and Occitan texts, including narratives of colonial conquest and cultural traffic, we'll have a chance to examine the porous boundaries of the medieval Francophone world. Primary texts will include authors such as Marco Polo, Brunetto Latini, Marie de France, Clemence of Barking, Arnaut Daniel, the *Song of Roland* and the *Song of the Albigensian Crusade*. Readings and discussion in French.

**FREN 3350 Romance to Revolution: The French Novel before 1750-1850 # (LA-AS)**

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: FREN 2210 or permission of instructor. M. C. Vallois.

In addition to considering formal questions relating to the development of the novel in French, this course examines problems such as the appearance of narrative and historical consciousness, the representation of woman, and the relation between literature and society. Texts include such major works as Tristan and Iseult, Perrault's *Contes*, Mme de LaFayette, Prevost, Rousseau, Diderot, Laclous, and Sade.

**FREN 3365 Shipwrecks: Disaster, Deliverance, and Colonial Modernity (also SPAN 2360) (LA-AS)**

Spring. 4 credits. G. Aching.  
For description, see SPAN 2360.

**FREN 3370 The Québécois Experience (CA-AS)**

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: FREN 2210, 3010, or 3050, or CASE Q++ placement. L. Dubreuil.

This course will present some of the major features of Québécois society, culture, religion, politics, and literature, from the early times of "Nouvelle France" (16th-17th century) to contemporary Québec. We will explore topics such as: the role of Catholicism, political activism, isolation and migrations, (post) coloniality and identity, Montréal. This is a truly multidisciplinary class, based on various pieces (voyage descriptions, political texts and memoirs, poems, theater plays, novels, films, songs, etc.). We will study excerpts from historical documents (Samuel de Champlain, the Jesuit descriptions of Quebec), or authors such as Emile Nelligan, Gaston Miron, Anne Hébert, Robert LePage, Gilles Vigneault, etc.

**FREN 3710 Reading/Screening Women's Stories in French and Francophone Cultures**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: FREN 2210, 3010, or 3050, or CASE Q++ placement. M. C. Vallois.

The class is an introduction to reading and interpreting women's stories as they are represented, written, at times erased before being recovered in French and Francophone history and cultures. The course will analyze several figures/icons/images from the Old Regime to our time. The goal of the course is to familiarize students with the analyses of different strategies and techniques of representation (esthetic, historical, scientific, autobiographical, and fictional). The corpus of works studied will include fictional and historical writing as well as paintings and films. Examples of such case studies could

include: Joan of Arc, Marguerite de Valois, Marie-Antoinette, Heroines of fairy tales, Camille Claudel, unknown women workers, or well-known contemporary women authors such as Marguerite Duras, Marjane Satrapi, or Maryse Condé.

**FREN 3730 Religious Violence in French and Francophone Texts # (CA-AS)**

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: FREN 2210, 3010 or 3050, or CASE placement, or permission of instructor. K. Long.

This course will examine the various forms religious violence takes on: war, massacre, pillage, and torture—and consider the symbolic meanings invested in these forms of violence in the context of the work of René Girard (*La Violence et le sacré*). We will raise the question of what makes this sort of violence so intractable, and what has fostered the continuity of religious conflict over such a long span of time. For example, the ceremonial or ritualistic nature of this violence seems to give it an internal justification that is not subject to laws concerning human rights. Then, we will examine how a range of authors throughout history represent this violence in critical fashion. A number of texts present the impossibility of representing extreme violence, raising the question of how events can be witnessed when the witnesses are dead or traumatized by them. How can such extreme violence be represented or explained without being justified or rationalized? We will examine how the presentation of violence as a spectacle raises the question of personal responsibility in the context of large-scale and ongoing violence, implicating also those who observe but who do not directly participate. We will also consider Maalouf's *Les Croisades vues par les arabes* (as well as his *Identités meurtrières*), Joinville's *La Vie de Saint Louis*, Théodore Agrippa d'Aubigné's *Les Tragiques*, Elie Wiesel's *La Nuit*, Gillo Pontecorvo's *La Bataille d'Algers*, Jean Genet's *Les Paravents*, Shoshana Felman and Dori Laub's *Testimony*, and Elaine Scarry's *The Body in Pain*.

**FREN 3860 Perfume, Jewelry, Cigarettes in French Literature (LA-AS)**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: FREN 2210, 3010 or 3050, or CASE Q++ placement. R. Klein.

Artifacts like perfume, jewelry, and cigarettes are often the focus of literary attention in France, not only for Epicurean motives but because, being essentially frivolous, without any evident social utility, they resemble in that respect aesthetic objects of art itself. This course proposes to read a number of works in which perfume, jewelry, and cigarettes are featured prominently, where their charms and seductions are illustrated and mobilized in the interest of broader allegorical aims.

**FREN 3890 Canonical States, Canonical Stages (LA-AS)**

Fall. 4 credits. M. Greenberg.

This course will be a comparative reading of several 17th-century tragedies. The authors we will read will be Shakespeare, Lope de Vega, Calderon, Corneille, and Racine. The course will attempt to delimit the origins of the modern state in the exclusionary practices that 17th-century tragedy stages for both contemporary (to the plays) audiences and to 21st-century audiences. Our critical apparatus

will borrow from different theories of ideology and subjectivity, as they pertain to the theatrical experience.

**FREN 4010 Politics and Perversion in French 17th-Century Literature (also FREN 6010) (LA-AS)**

Spring. 4 credits. M. Greenberg.  
This course will use the concept "perversion" in its sexual, political, and theological definitions to examine the tensions of 17th-century French literature and culture. We will begin with a discussion of the work and trial of Theophile de Viau—a trial that set the tone of government intervention in poetic creation for the entire century. We will then look at other "scandals" including the heated debates of several religious women (Jeanne des Anges, Marie de l'Incarnation, Mme Guyon) who were involved in several of the theological scandals (possession) of the century. We will also look at some of the writings of P. Bayle and other Protestant and Catholic dissident intellectuals whose writings veered away from orthodoxy. Works by La Fontaine and his relation with N. Fouquet will be discussed in relation to the establishment of Louis XIV's version of absolutism in the arts. Finally we will look at a tragedy or two by both Corneille and Racine where sexual passion is shown to pervert familial structures necessary—or thought so—for a well one.

**FREN 4150 Negrismo and Negritude: Africanist Poetics and Politics (also FREN 6150, SPAN 4150/6150) @ (LA-AS)**

Fall. 4 credits. Open to students with very good reading knowledge of both Spanish and French. G. Aching.  
For description, see SPAN 4150.

**FREN 4190-4200 Special Topics in French Literature**

4190, fall; 4200, spring. 2-4 credits each semester. Prerequisite: permission of instructor. Staff.

Guided independent study of special topics.

**FREN 4240 Freud: An Introduction to Psychoanalysis (also FREN 6240)**

Fall. 4 credits. M. Greenberg.  
The class is intended to be an introduction for beginning graduate students to the history and theory of psychoanalysis. We will be primarily interested in reading the early texts of psychoanalysis, especially Freud, while indicating the different directions analytic theory and practice will take in their later developments.

**FREN 4290-4300 Honors Work in French**

4290, fall; 4300, spring (yearlong). 8 credits. R grade given at end of fall semester and final grade at end of spring semester. Open to juniors and seniors. Consult director of honors program for more information. Staff.

**FREN 4310 French Theater: Staged Reading (LA-AS)**

Fall. 4 credits. Conducted in French. L. Dubreuil.

This class gives students the opportunity to analyze literature, to practice theater, and to study French language at the same time. The final product of this course will be a public staged reading of a play in French (this play being conjointly determined by the students and the instructor). A staged reading involves performers reading aloud a text that they know well but they do not need to memorize, with only minimal movements, costumes,

prop, or lights. Throughout the semester, we will work on literary interpretation as well as on the practice of reading (voice, expression). Texts from the 17th to the 21st century might be studied. Though a previous experience in acting would be nice, it is by no means required to attend the class.

**FREN 4350 Postcolonial Poetry and the Poetics of Relation (also COML 4290/6350, FREN 6350, SPAN 4350/6350) (LA-AS)**

Fall. 4 credits. J. Monroe.  
For description, see COML 4290.

**FREN 4390 Poems of Force: Medieval Epic (LA-AS)**

Spring. 4 credits. C. Howie.  
This seminar is dedicated to the glittery, gory battle poems of the French Middle Ages, with special emphasis on the role of violence in the construction of national, narrative, and erotic identities. We'll take a look at two famous war poems, the *Song of Roland* and *Raoul de Cambrai*, as well as the romance afterlife of Virgil's *Aeneid* in the 12th-century *Roman d'Eneas*; time permitting, we'll also turn to Renaissance appropriations of medieval epic (and romance) tropes, particularly Tasso's *Gerusalemme liberata*. In addition to close readings of these texts, we'll turn to modern and contemporary thinkers such as Simone Weil, Anne Carson, Elaine Scarry, and others who have dealt delicately with the ethics and aesthetics of violence. Readings primarily in French, discussion in English. No previous experience with Old French required.

**FREN 4520 Creativity and Constraints (also COML 4675)**

Spring. 4 credits. T. McNulty.  
Against our tendency to identify invention and discovery with an unbounded horizon—the open expanse of an uncharted territory, the limitless products of the imagination, or the unmarked potential of the blank page—this course will consider the role of boundaries, limits, obstructions, and constraints in shaping the creative process. Our discussions will draw upon a wide range of sources, from medieval lyric to contemporary architecture, from site-specific artworks to games and game theory, from the role of constraints in Sigmund Freud's conception of the psychoanalytic transference to Gaston Bachelard's and Henri Lefebvre's meditations on space, from literary mappings of civic space to Martin Heidegger's articulation of building, dwelling, and thinking. More specifically, we will focus on 20th-century collectives and movements whose members have sought in self-imposed limits or constraints both a renewal of the creative process and a means of transforming the social, political, and urban spaces in which they live: Surrealism and Dada, the French literary collective *Oulipo*, the Situationists, and the Danish film collective *DOGMA*, among others. Students will have the opportunity to conceive and execute artistic, social or political projects inspired by course readings in addition to writing formal papers.

**FREN 4740 Romantic Novel (LA-AS)**

Fall. 4 credits. R. Klein.  
French Romanticism finds its most compelling expression in novels of disappointed love. This course will read a selection of those novels by Chateaubriand, Benjamin Constant, Nerval, Balzac, Stendhal, and Flaubert. Romantic love will be considered in relation to courtly love as it was formulated in Europe

in the 12th and 13th century, preserved and transformed by the Petrarchian tradition.

**FREN 4824 Medieval Translation in Motion (also ENGL 4072, SHUM 4824)**

Fall. 4 credits. S. Chaganti.  
For description, see SHUM 4824.

**FREN 4935 Subjectivation as Mode of Psychoanalysis—Zola's Department Store (also SHUM 4935)**

Spring. 4 credits. S. Tsai.  
For description, see SHUM 4935.

**FREN 4936 Link, Network, Nexus (also COML 4115, GOVT 4748, SHUM 4936, STS 4361)**

Spring. 4 credits. B. Massumi.  
For description, see SHUM 4936.

**FREN 6010 Politics and Perversion in French 17th-Century Literature (also FREN 4150)**

Spring. 4 credits. M. Greenberg.  
For description, see FREN 4010.

**FREN 6150 Negrismo and Negritude: Africanist Poetics and Politics (also FREN 4150, SPAN 4150/6150)**

Fall. 4 credits. Open to students with very good reading knowledge of both Spanish and French. G. Aching.  
For description, see FREN 4150.

**FREN 6240 Freud: An Introduction to Psychoanalysis**

Fall. 4 credits. M. Greenberg.  
For description, see FREN 4240.

**FREN 6300 French Reading for Graduates**

Spring. 3 credits. Prerequisite: graduate standing. T. Alkire.

Designed for those with little or no background in French. Aims primarily to develop skill in reading French. Covers grammar basics, extensive vocabulary, and strategies for reading in a foreign language. Some flexibility in selecting texts according to fields of interest.

**FREN 6390–6400 Special Topics in French Literature**

6390, fall; 6400, spring. 2–4 credits each semester. Staff.  
Guided independent study for graduate students.

**FREN 6470 The Theatricality of Gender, Philosophy, and French Literature (also FGSS 6470)**

Fall. 4 credits. M. C. Vallois.  
Selecting specific case studies from the time of Descartes and Marie de Gournay to Derrida and Butler, the seminar will examine the relationship between philosophical discourse and the theatricality of sexuality and gender in literary, juridical, scientific and other historical French and Francophone texts. The period of the Long Enlightenment (17th–18th centuries), which witnessed the questioning of Cartesian philosophy by the materialist philosophers will be central to the seminar. The goal of this inquiry is, however, to reframe the problematics of sexual differentiation as historical representation and production of “experience.” The preceding and succeeding moments of intellectual inquiries (the libertine age as well as the age of the social sciences) will bring new light to the nature/culture and universal/particular debate. It will do so also through the reading of these texts by contemporary theorists of our modernity such

as Merleau-Ponty, Foucault, Irigaray, Derrida, Spivak, Butler, and David-Menard. Some of the primary texts studied could include the works of Marguerite de Valois, Madame de Lambert, Montesquieu, Diderot, Germaine de Staël, George Sand, Simone de Beauvoir and Hélène Cixous, Maryse Condé.

**FREN 6480 The Refusal of Politics**

Spring. 4 credits. L. Dubreuil.  
Graduate seminar on the *negative* relations between literature and politics. It will include a reading of some theories of *engagement* and *dégagement* (or *retrait*) from the last decades. We will compare these theories with the discrete and problematic solutions that literary oeuvres have invented. We shall focus on the literary refusal of society in 19th-century France and will consider different ways of living in an “ivory tower.” Authors to be studied could include Mme. de Staël, Vigny, Hugo, Baudelaire, Flaubert, Maupassant, Mallarmé, or Zola.

**FREN 6650 Queer Theory (also FGSS/ITAL 6650)**

Spring. 4 credits. C. Howie.  
This course explores queer fiction in the widest possible sense. We'll take a look at the complicated relationship between narrative and sexuality in modern French and Italian literature, with occasional detours into the Anglophone world. In the process, we'll pay special attention to canonical figures of modern homosexuality (e.g., Colette, Gide, Genet, Yourcenar, and Pasolini) and to writers less comfortably, which is to say more queerly, positioned within that cannon (e.g., Kathy Acker, David Wojnarowicz, Pat Califia, Hervé Guibert, Pier Vittorio Tondelli). Readings and discussion in English.

## Italian

T. Alkire, M. Baraldi, K. Bättig von Wittelsbach, T. Campbell, F. Cervesi, M. Migiel, K. Serafin, R. Welch (visiting). Emerita: A. Grossvogel.

## The Major

The Italian section offers a major in Italian with tracks in Italian literature and culture and Italian studies. The first track is designed for students who wish to study Italian language, literature, and culture through the works of writers, artists, and cultural figures who have developed rich and varied aesthetic traditions. The second track in Italian studies includes a broader progression of courses that entails work in related disciplines. Both are designed to provide students with proficiency in reading, speaking, and writing in Italian, to familiarize them with Italian culture, and to assist them in analyzing Italian texts in related fields. For further information, students are asked to consult the director of undergraduate studies.

### Track 1: Italian Literature and Culture

Track 1 is designed for students who: (1) wish to study Italian language, literature, and culture through the works of writers, artists, and cultural figures; and (2) wish to do most of their course work in Italian.

Admission: the prerequisite for official admission to Track 1 of the Italian major is successful completion of any ITAL course at the 2000 level or higher conducted in Italian.

Students who wish to follow Track 1 in Italian are advised to consult with the director of undergraduate studies (DUS). The DUS will take into account the student's interest, preparation, and career goals and assign the student to an advisor. Students majoring in Italian are expected to become conversant with a fair portion of the masterworks of Italian literature, to acquaint themselves with the outlines of Italian literary and cultural history, and to develop some skill in textual and cultural analysis. In conjunction with the major advisor, the student will craft an individualized plan of studies that will meet the minimum requirements for Track 1 as listed here:

- At least 10 Italian literature or culture courses at the 2000 level and higher (the prerequisite may be counted toward this requirement. The 1-credit Italian practicum and the 1- or 2-credit independent study options do not count as full courses). One of these courses must be at the 4000 level and one must focus on Italian texts before the 19th century. With the permission of the advisor, the student may substitute for two of these courses other courses that are deemed relevant to the student's study of Italian, e.g., a course in another national literature, a course in critical theory, or a course in European history.
- At least 20 credits in courses conducted entirely in Italian. The Italian practica may be used to fulfill 3 of these credits. Twelve of these credits must be in courses in Italian at the 3000 level or above.
- Competency in the Italian language (as demonstrated by examination or by course work approved by the DUS).

ITAL 4040 History of the Italian Language and ITAL 4030 Linguistics Structure of Italian may be counted toward the 10 courses required for the major. Note: An introductory course is prerequisite for ITAL 4030 and 4040.

### Track 2: Italian Studies

Track 2 in Italian Studies is designed primarily for students who wish to pursue individual interests that do not fall within Track 1 of a major. Students select courses from Italian as well as courses from other departments that have a substantial Italian component, such as History of Art, Architecture, Government, Music, and Comparative Literature. For the list of approved Italian studies courses, please see the director of undergraduate studies.

**Admission:** By the end of their sophomore year, prospective majors in Track 2 should have taken ITAL 2190 Intermediate Conversation and Composition or demonstrated the equivalent level of fluency.

To complete the program, students must:

1. Demonstrate competence in the Italian language by completing ITAL 3130 Advanced Conversation and Composition, or its equivalent (such as ITAL 3300 Italian Writing Workshop);
2. Complete the core series of Italian Studies courses: ITAL 2900 Perspectives in Italian Culture (fall), ITAL 2950 Italian Cinema (fall), and ITAL 2970 Introduction to Italian Literature (spring);
3. Complete at least five courses (20 credits) from the approved list of Italian Studies

courses at the 3000 level or above from no more than three departments. Students planning on studying abroad for a year or a semester in Italy should plan their course work to emphasize their individual interests. Note: Students must maintain a B- in each of the five Italian Studies courses; and

4. Select a committee of one or more faculty advisors to help formulate a coherent program of study. One of the advisors must come from the Italian section.

Students are encouraged to enrich the program by combining this option with other majors in related fields such as history of art, music, comparative literature, or architecture.

### Minor in Italian Studies

In order to complete an undergraduate minor in Italian Studies, students must take at least five courses (a minimum of 15 credits) by selecting courses in consultation with the minor advisor, one of which must be ITAL 2900 Perspectives in Italian Culture. These courses must be allocated among at least three Cornell departments and must include one introductory course and one course at the advanced level. Language competence must be demonstrated by successfully completing ITAL 2190. Please note that courses taken as part of a study abroad program approved by the Study Abroad Dean may count toward meeting the above requirements.

Students wishing to enroll in the minor must register their intent by contacting the director of undergraduate studies, who will assign a faculty advisor to students.

**Study Abroad in Italy:** Italian studies faculty members strongly encourage students to consider studying abroad in Italy. Students will have the opportunity to immerse themselves in Italian and gain a singular perspective on the Italian cultural context.

Students are urged to consider the Bologna Cooperative Studies Program (BCSP), of which Cornell is an associated member. BCSP offers qualified undergraduate students an opportunity to study for a full academic year or a semester at the University of Bologna for credit. During each semester of the academic year, which begins in October and extends through June, BCSP students enroll in one or two regular University of Bologna courses with Italian students. Students may also take special courses in Italian literature, language, art history, film studies, and contemporary politics.

Enrollment in a language course is conditional upon the student's eligibility for the particular level and on attendance at the first scheduled class session. Because of the high demand for language courses, a student who fails to attend the first class meeting will be dropped so others may register.

**Note:** Students placed in the 2000-level course have the option of taking language and/or literature courses.

### ITAL 1210-1220 Elementary Italian

1210, fall; 1220, spring. 4 credits each semester. Prerequisite: for ITAL 1220, 1210 or LPI 37-44 or SAT II 370-450. Intended for beginners or students placed by examination. At the end of ITAL 1220, students who score lower than 56 on the LPI take ITAL 1230; those with 56 or higher may enter the 2000-level sequence. M. Baraldi, K. Serafin and staff.

This introductory course provides a thorough grounding in all the language skills: listening, speaking, reading, and writing, with practice in small groups. Lectures cover grammar and culture.

### ITAL 1230 Continuing Italian

Fall or spring. 4 credits. Prerequisite: ITAL 1220, or LPI 45-55 or SAT II 460-580. K. Bättig von Wittelsbach.

This is an all-skills course designed to improve speaking and reading ability, establish a groundwork for correct writing, and provide a substantial review of grammar.

### ITAL 2090 Italian Intermediate Composition and Conversation I

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: ITAL 1230, or LPI 56-64, or SAT II 590-680, or CASE Q. F. Cervesi.

This course provides a review of composition, reading, pronunciation, and grammar as well as guided practice in conversation. It emphasizes the development of accurate and idiomatic expression in the language.

### ITAL 2140 World News, Italian Views (CA-AS)

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Limited to 18 students. Prerequisite: ITAL 2090 or permission of instructor. Designed to improve students' proficiency in Italian. Special attention will be given to writing. Conducted in Italian. M. Migjel.

In this seminar, we will read, discuss, and write about a variety of global and transnational issues that get debated in the Italian media. Our approach to these cultural issues will be grounded in rhetorical and discourse analysis. Students will be required to analyze information from Italian and English (both U.S. and British) sources. Students who read other languages (e.g., French, Spanish) will be encouraged to offer points of comparison. Topics will take into account student interests and are likely to include current events; international politics; developments in science and technology; economic and business ventures; cultural events; sports.

### ITAL 2190 Italian Intermediate Composition and Conversation II

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: ITAL 2090 or equivalent. K. Bättig von Wittelsbach.

Guided conversation, composition, reading, pronunciation, and grammar review emphasize the development of accurate and idiomatic expression in the language.

### ITAL 2900 Perspectives in Italian Culture (CA-AS)

Fall. 3 credits. "Core course" in track two of the Italian major, offered every year. Conducted in English with discussion section in Italian. R. Welch.

This course aims to provide students with the tools necessary to understand the most important social, political, and artistic developments occurring in contemporary Italian culture. These include the nature of geographic and national fragmentation in post-Risorgimento "ITALY"; The "Southern" question and the phenomenon of "Costa Nostra"; Italian contributions to world cinema; and the politics of food. By providing students with interdisciplinary perspectives on Italian culture, they will be introduced to how Italian culture is produced and consumed globally

today. Primary readings include selections from Peter Robb, Leonardo Sciascia, and Tim Parks, and films from Rossellini, de Sica, Sergio Leone, and Benigni. A group of secondary readings stimulates the discussion of the historical and cultural panorama of contemporary Italy.

**ITAL 2950 The Cinematic Eye of Italy (CA-AS)**

Fall. 3 credits. *Satisfies Option 1 of language requirement.* Prerequisite: ITAL 2090 or permission of instructor. E. Fay.

Introduces students to Italian cinema from the 1940s to today. Students will view the representative works of the most important Italian directors in order to create a perspective on one of the world's major national cinematic traditions. We will pay close attention to the sociopolitical context of the films as well as considering the technical and formal issues that arise when studying Italian cinema. Emphasis will be given to Italian neo-realism, Italian political cinema of the 1970s, and contemporary Italian films.

**ITAL 2970 Introduction to Italian Literature (LA-AS)**

Spring. 3 credits. *Satisfies Option 1 of language requirement.* "Core course" in Italian Studies major. Prerequisite: ITAL 2090 or permission of instructor. Conducted in Italian. L. Fabbri.

The course aims to introduce students to Italian literature, mainly through readings in prose and poetry from the 20th century. The course includes significant practice in grammar, vocabulary building, and composition, and to this end, students are required to write five papers of medium length over the course of the semester.

**ITAL 3020 Italian Practicum**

Spring. 1 credit. Staff.

Students enrolled in an Italian literature or culture course that is conducted in English may opt to take this practicum provided that they have already attained proficiency in the language.

**ITAL 3130 Advanced Italian: Language in Italian Culture (LA-AS)**

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: ITAL 2190 or equivalent. Conducted in Italian. K. Bättig von Wittelsbach.

This course is designed to develop accuracy and fluency in oral and written expression, and to sharpen awareness of idiomatic and stylistic nuances in present-day Italian. The material discussed is drawn primarily from a wide range of social and cultural issues in modern Italy, and in the areas of Europe where Italian is an official (Switzerland) or a regional minority language (Istria). Some of the topics discussed are: the role of Italy in the European Community, the place of the minorities (especially that of more recent, non-European immigrants) in the Italian public life, the importance of art and artist in the contemporary Italian society, and the changing Italian language and its regional varieties. Listening and speaking skills are cultivated through the frequent use of authentic audio and visual materials. Readings range from fictional to analytical and argumentative, with writing assignments frequently emulating the text being read. Presentations and grammar review are also an important component of this course.

**ITAL 3400 History of the Grotesque (LA-AS)**

Fall. 3 credits. *Satisfies Option 1 of language requirement.* Prerequisite: ITAL 2090 or permission of instructor.

Italian literary history, seen from a certain angle, is a series of moments of rhetorical exaggeration, bodily deformity, sexual overkill, religious satire, and extreme violence: hallmarks of an aesthetic category that came, at some point in the modern period, to be called the grotesque. We'll examine the particular shapes to which this category can be applied across time, and which may in turn alter the very shape of the category. After all, the grotesque is nothing if not a question of shapes: of anticipated literary and bodily forms, and their eventual disappointment or monstrous transformation; of how aesthetic devices not only represent but produce the "normal" body as an effect of its many variations. Expect blasphemous monkeys, farting devils, and lots of intimidating women.

**ITAL 3890 Modern Italian Novel (also ITAL 6890) (LA-AS)**

Spring. 4 credits. R. Welch.

Topic for Spring 2010: Narrating the City: The Case of Rome. In this course, we will examine a fervently articulated and debated social object—the city—and its uses in modern Italian narrative. We will situate our inquiry on the intersections of urban and narrative space in the "eternal city" of Rome—the locus of governmental and ecclesiastical power in modern Italy, and the inspiration for and site of countless imaginative renderings in art, literature, film, and television. This course is concerned in particular with the space of Rome from the late 19th to the 20th century, and our readings will include novels, films, and short stories that represent Rome as a site of working-class struggle, bourgeois rationality, aristocratic decadence, fascist power and resistance, racial and sexual marginality, and/or affective (trans)formation. Our readings will address the following questions: if clearly defined boundaries delineate the city as a political space, what limits are at work in defining it within a narrative space? What kinds of inclusions, and exclusions shape a given urban space? What relationships—geographic, architectural, but also rhetorical and narrative—are forged between the city and its periphery? Primary readings to include novels and films by Matilde Serao, Gabriele D'Annunzio, Alberto Moravia, Natalia Ginzburg, Roberto Rossellini, and Pier Paolo Pasolini. Secondary readings to include essays by: Louis Althusser, Roland Barthes, Walter Benjamin, Marshall Berman, Giuliana Bruno, Michel De Certeau, and Michel Foucault.

**ITAL 4190-4200 Special Topics in Italian Literature**

4190, fall; 4200, spring. 2-4 credits each semester. Prerequisite: permission of instructor. Staff.

Guided independent study of special topics.

**ITAL 4270 Dante's Commedia (also ITAL 6270) # (LA-AS)**

Spring. 4 credits. M. Migiel.

In this seminar, dedicated to a close reading of Dante's *Commedia* (1321), we will consider how Dante's poem explores such issues as: the search for language adequate to convey experience surpassing human comprehension: the creation of a narrating "I"; the education of the reader; the relation between truth and enterprise; the redemptive potential of art (and

its ability to deceive as well as to enlighten and console); the call to bear witness, both to life and to loss. Particular attention will be dedicated to teaching students how to read in interpret medieval Italian texts. Graduate students are required to attend an extra session each week (time TBA), dedicated to discussion of critical methodology and the secondary literature on Dante.

**ITAL 4290-4300 Honors Work in Italian**

4290, fall; 4300, spring (yearlong). 8 credits. R grade given at end of fall semester and final grade at end of spring semester. Open to junior and seniors. Consult director of honors program for more information. Staff.

**ITAL 4822 Life As We Know It: Readings in the Biopolitical Paradigm (also COML 4965, SHUM 4822)**

Fall. 4 credits. T. Campbell.

For description, see SHUM 4822.

**ITAL 6270 Dante's Commedia (also ITAL 4270)**

Spring. 4 credits. M. Migiel.

For description, see ITAL 4270.

**ITAL 6390-6400 Special Topics in Italian Literature**

6390, fall; 6400, spring. 2-4 credits each semester. Staff.

Guided independent study for graduate students.

**ITAL 6640 Queer Theory (also FGSS/FREN 6650)**

Spring. 4 credits. C. Howie.

For description see, FREN 6650.

**Portuguese**

Faculty: L. Horne, J. Oliveira.

**PORT 1210-1220 Elementary Brazilian Portuguese I-II**

1210, fall; 1220, spring. 4 credits each semester. PORT 1210 is the prerequisite for PORT 1220. J. Oliveira.

This is a full-year introductory course, intended for students with no knowledge of Portuguese, and with limited or no knowledge of Spanish. Stress is placed upon the development of the fundamental communication skills: listening, speaking, reading, and writing.

**PORT 2090-2190 Intermediate Brazilian Portuguese for Spanish Speakers I-II @**

2090, fall; 2190, spring. 4 credits each semester. *PORT 2090 satisfies Option 1 of language requirement.* Prerequisite: for 2090, PORT 1220; for 2190, PORT 2090 or permission of instructor. J. Oliveira.

PORT 2090-2190 is a full-year course intended for students who have already taken the first level of Portuguese, or as an intensive introductory course for those who are native/near native speakers of Spanish. An all-skills course with particular emphasis on Brazilian Portuguese spoken within the context of its culture, it presents a fast-paced review focused on improving grammatical accuracy, pronunciation and on enriching vocabulary.

**PORT 3200 Readings in Modern Brazilian Literature (LA-AS)**

Spring. 4 credits. L. Horne.

This course aims to provide an overview of modern Brazilian literature. It will cover the

major literary movements and the essential canonical writers of 19th- and 20th-century Brazil. Some of the topics to be discussed are: the formation of the national literature; literature and slavery; foreign models and rewritings; diverse definitions of national spaces and landscapes; relationships between aesthetic innovations and political issues and different literary definitions of frontiers, margins, and exclusions. The course also intends to introduce students to the practice of literary analysis, and to provide an opportunity to improve language skills in Portuguese through extensive oral and written practice. Some of the authors to be read include Aluzio Azevedo, J. M. Machado de Assis, Mário de Andrade, Oswald de Andrade, Clarice Lispector, Graciliano Ramos, João Guimarães Rosa, Nelson Rodrigues and Aba Cristina César.

**PORT 4200 Special Topics in Brazilian Literature**

Spring. 2-4 credits. Prerequisite: permission of instructor.

Guided independent study of specific topics. For undergraduates interested in special problems not covered in courses.

**PORT 4720 Between Fact and Fiction: The Documentary Tradition in Latin American Literature, Film, and Visual Arts (also SPAN 4720) @ (CA-AS)**

Spring. 4 credits. L. Horne.

This course explores how the concept of "document" becomes articulated in multiple cultural practices in contemporary Latin America. Through a selection of texts, films, photographic installations and other works we will study how the documentary genre permeates different cultural manifestations, acting as a crossing point between different artistic media. We will explore how the presence of the document blurs the boundary not only between fact and fiction, but also between subject and object, and ultimately between the different arts. The course provides a historical survey of the "documentary tradition" throughout the 20th century seeking to understand the specificities of the contemporary moment. Both classic and recent theoretical texts on the subject will be covered.

**PORT 6400 Special Topics—Grad**

Spring. 2-4 credits. L. Horne.

Guided independent study of specific topics.

**Romance Studies**

Faculty: D. Cruz de Jesús.

**ROMS 5070 Methodology of Romance Language Learning and Teaching**

Spring. 3 credits. Required for all graduate TAs who will be teaching Romance languages for the first time at Cornell. D. Cruz de Jesús.

Focuses on language teaching as facilitation of learning, thus on the learner's processing of language acquisition and the promotion of reflective teaching. Pedagogical approaches will be addressed from a learner-centered perspective involving effective language learning strategies and analysis.

**ROMS 5080 Pedagogy Practicum**

Fall. 1 credit. Required for all graduate TAs teaching language for the first time in the Department of Romance Studies. Staff. This practicum is designed to better enable the TAs to meet the needs of their students in the understanding and acquisition of the

linguistic forms, notions and functions covered in their course.

**Spanish**

G. Aching, S. Amigo-Silvestre, M. Balsa, M. Beviá, T. Beviá, B. Bosteels, D. Castillo, D. Cruz de Jesús, M. A. Garcés, J. Rodríguez-García, L. Horne, P. Keller, C. Lawless, N. Maldonado-Méndez, J. E. Paz-Soldán, S. Pinet, M. K. Redmond, J. Routier-Pucci, A. Stratakos-Tió, B. Teutli. Emeritus: C. Morón Arroyo.

**The Major**

The Spanish major is designed to give students proficiency in the oral and written language, to acquaint them with Hispanic culture, and to develop their skill in literary and linguistic analysis. Satisfactory completion of the major should enable students to meet language and literature requirements for teaching, to continue with graduate work in Spanish or other appropriate disciplines, and to satisfy standards for acceptance into the training programs of the government, social agencies, and business concerns. A Spanish major combined with another discipline may also allow a student to undertake preprofessional training for graduate study in law or medicine. Students interested in the major are encouraged to seek faculty advice as early as possible. For acceptance into the major, students should consult the director of undergraduate studies, who will admit them to the major, and assign them an advisor from the Spanish faculty. Spanish majors will then work out a plan of study in consultation with their advisors. Spanish majors have great flexibility in designing their programs of study and areas of concentration. Previous training and interests as well as vocational goals will be taken into account when the student's program of course is determined.

SPAN 2190 is a prerequisite to entering the major in Spanish.

All majors will normally include the following core courses in their programs:

1. SPAN 2150, 2150, and 2170 (not necessarily in that order).
2. SPAN 3100 and 3110.
3. One of the two senior seminars offered each year. A minimum grade of B- is required in order for a course to count toward the major.

**The Spanish Literature Option**

The Spanish literature option normally includes at least 15 credits of Spanish literature beyond the core courses. Literature majors are strongly urged to include in their programs all the major periods of Hispanic literature.

**Area Studies Option (Spanish, Latin American, or U.S. Latino Studies):**

At least 15 credits of courses at the 3000 level and above in any of those focus areas beyond the core, all courses to be approved through consultation with the major advisor. Courses should reflect interdisciplinary interests in the area and may include up to three other academic fields of interest. For example, a student interested in Latin American studies may want to include courses on such topics as Latin American history, government, rural sociology, and economics. Students who want

to specialize in U.S. Latino issues may want to include such topics as sociology of Latinos, Latino history, and Latino medical issues in addition to further studies in literature. Students specializing in Spanish studies planning on spending a year or semester in Spain (but not exclusively such students) frequently plan their course work to emphasize Spanish history, art, political economy, and other related field courses, such as courses on Islam and Moorish or Jewish Spain.

Students are encouraged to enrich the major program by including a variety of courses from related fields or by combining Spanish with related fields such as history, philosophy, sociology, anthropology, art, music, classics, English, comparative literature, and other foreign languages and literatures. The interdepartmental programs in Latin American studies and Latino studies sponsor relevant courses in a variety of areas.

The J. G. White Prize and Scholarships are available annually to undergraduate students who achieve excellence in Spanish.

**Minor in Spanish**

The minor promotes a broad understanding of Spanish and Spanish American culture, literature, and society; it also encourages students to refine and practice their language skills. In order to complete the minor, students must take a minimum of 5 courses (15 credits), distributed as follows: Language competence must be demonstrated by successfully completing either SPAN 3100 (Advanced Spanish Conversation and Pronunciation) or SPAN 3110 (Advanced Spanish Writing Workshop). Students pursuing a minor must furthermore complete either SPAN 2200 (Perspectives on Latin America) or SPAN 2230 (Perspectives on Spain), as well as three elective courses to be chosen in consultation with the student's advisor. Among those electives, students are strongly encouraged to take at least one course at the advanced 3000-4000 level.

Students wishing to enroll in the minor must register their intent by contacting the minor advisor, who will assign a faculty advisor to each student.

**Study Abroad in Spain:** Cornell, the University of Michigan, and the University of Pennsylvania co-sponsor an academic year in Spain program. Students enrolled in this program spend the first month before the fall semester begins in an orientation session at the University of Seville, where they take courses in Spanish language and culture and take advantage of special lectures and field trips in Andalusia. Once the semester begins, students enroll in regular classes at the University of Seville and at the program's center facility. Center courses are designed for the program and include a seminar offered by the resident director, from the faculty of either Cornell, Michigan, or Pennsylvania. Other center courses typically include history of art, history of the Mediterranean region, a literature course, and Spanish composition and syntax. In Seville, students live in private homes and a rich array of cultural activities and excursions are organized every semester.

Applicants are expected to have completed SPAN 2190 before departure. Completion of SPAN 3110 is highly recommended. Students are strongly encouraged to study abroad for

the entire year rather than one semester. Students interested in the study abroad program should visit Cornell Abroad in 474 Uris Hall and see the Cornell Abroad web site: [www.einaudi.cornell.edu/cuabroad](http://www.einaudi.cornell.edu/cuabroad).

**Study Abroad in Bolivia:** The summer program in Cochabamba, Bolivia, is sponsored by the Latin American Studies Program and accepts both undergraduate and graduate students. Students live with Bolivian families and normally take two courses with Cornell faculty who participate in this program. In addition to course work in Bolivian culture, politics, and social movements, the program features the opportunity to do intensive study in Quechua, the native language spoken by many Bolivians, and Peruvians, as well as Spanish, and to participate in research and internships with grass-roots communities, government offices, and businesses.

**New Summer program in Nicaragua:** Cornell is partnering with the Centro de Idiomas in Ocotal, Nicaragua to offer an exciting new experiential learning opportunity. The program combines Spanish language instruction (from beginning Spanish to more advanced conversational Spanish) and internships (choose from opportunities in agriculture, education, health or engineering). Participants also earn 3 Cornell credits (LATA 4970 or IARD 4970: Independent Study).

**Honors:** Honors in Spanish may be achieved by superior students who want to undertake guided independent reading and research in an area of their choice. Students in the senior year select a member of the Spanish faculty to supervise their work and direct the writing of their honors essay (see SPAN 4290–4300).

### Courses in the Spanish Program

Enrollment in a language course is conditional upon the student's eligibility for the particular level and on attendance at the first scheduled class session. Because of the high demand for language courses, a student who fails to attend the first class meeting will be dropped so others may register.

Note: Students placed in the 2000-level course have the option of taking language and/or literature courses.

#### SPAN 1120 Elementary Spanish: Review and Continuation

Fall. 4 credits. *Students may not receive credit for both SPAN 1120 and 1220.* Prerequisites: LPS 37–44 or SAT II 370–450. Students who have taken SPAN 1210 may enroll. Meets five times a week: four class sessions and one lecture. M. Beviá.

Provides a basic review and then moves on to cover new material for the remainder of the semester. As part of the final exam, students take the LPS and, according to their score, may place into SPAN 1230 (score below 56) or into the 2000-level course (score 56 or above).

#### SPAN 1210 Elementary Spanish I

Fall. 4 credits. Prerequisite: students with no previous knowledge of Spanish or up to two years of high school Spanish. Meets five times a week: four class sessions and one lecture. M. K. Redmond and staff.

Using an integrated approach in small classes, this course develops listening, speaking, reading, and writing in a cultural context. Class sessions are conducted entirely in Spanish and the language is actively used in communicative, creative, and critical thinking

activities. Students read short cultural and literary texts to foster vocabulary acquisition and develop reading strategies. Students develop writing skills by writing and editing compositions on various subjects. Lectures introduce and clarify grammatical structures. Daily preparation and active participation are required. After this course, students may take SPAN 1220.

#### SPAN 1220 Elementary Spanish II

Spring. 4 credits. *Students may not receive credit for both SPAN 1120 and 1220.*

Prerequisite: SPAN 1210, or LPS 37–44, or SAT II 370–450. Class meets five times a week: four class sessions and one lecture. M. K. Redmond and staff.

Using an integrated approach in small classes, this course develops listening, speaking, reading, and writing in a cultural context. The course begins with a fast-paced review of SPAN 1210 and then introduces new material. Class sessions are conducted entirely in Spanish and the language is actively used in communicative, creative and critical thinking activities. Students read cultural and literary texts to foster vocabulary acquisition, complete analytical exercises, and develop reading strategies. Students continue developing writing skills by writing and editing compositions. Lectures introduce and clarify grammatical structures. Daily preparation and active participation are required. After 1220, students may take 1230, 2070, or 2090 depending on their LPS score, which is the final exam.

#### SPAN 1230 Continuing Spanish

Fall, spring, or summer. 4 credits. Prerequisite: SPAN 1220, or LPS 45–55, or SAT II 460–580. Meets four times a week. Fall and spring, S. Amigo-Silvestre and staff; summer: A. Stratakos-Ti6.

The goal of this low-intermediate course is to achieve a higher level of comprehension as well as to advance oral and written expression in a cultural context. Small classes are conducted entirely in Spanish and the language is actively used in communicative, creative, and critical thinking activities. Students engage in linguistic and literary analysis of texts to acquire new vocabulary, complete analytical exercises and develop reading strategies. Students continue developing writing skills by writing and editing compositions on various subjects and review grammatical structures on their own although the instructor may clarify as needed. Oral presentations, daily preparation and active participation are required. After this course, students may take SPAN 2000, 2070, or 2090.

#### SPAN 2070 Intermediate Spanish for the Medical and Health Professions

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 1230, LPS 56–64, or SAT II 590–680, Q on CASE exam. Students who have taken SPAN 2000 or 2090 should speak to instructor. A. Stratakos-Ti6.

Provides a conversational grammar review, with dialogues, debates, compositions, and authentic readings on health-related themes. Special attention is given to relevant cultural differences and how cultural notions may affect medical care and communication between doctor and patient. The objective of 2070 is to provide practice in real-life application, such as taking a medical history, calming a patient, and how to speak to a

Hispanic patient in a culturally acceptable manner. After this course, a student may take SPAN 2140, 2150, 2170, or 2190.

#### SPAN 2090 Intermediate Spanish I (Composition and Conversation)

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 1230, or LPS 56–64, or SAT II 590–680, or CASE Q. Not open to students who have taken SPAN 2070. Class meets three times a week. J. Routier-Pucci and staff.

This intermediate course develops accurate and idiomatic oral and written expression in a cultural context. Students achieve a higher level of syntactical and lexical competence through the study of stylistics, reading and discussing literary texts, and viewing films. Particular emphasis is on writing academic essays with editing and peer/instructor feedback. Small classes are conducted entirely in Spanish and the language is actively used in communicative, creative and critical thinking activities. Students are responsible for reviewing grammatical structures on their own. Oral presentations, daily preparation, and active participation are required. After this course, students make take SPAN 2140, 2150, 2170, or 2190.

#### SPAN 2140 The Spanish Difference: Readings in Modern Iberian Literatures (LA-AS)

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 2070 or 2090, or CASE Q+, or permission of instructor. Conducted in Spanish. Fall, M. Balsa and staff; spring, P. Keller and staff.

Introductory survey of modern Spanish literature. Students develop their analytical skills and learn basic literary concepts such as genre (drama, lyric, short story and novel) and style (romanticism, realism, etc.) as well as male/female perspectives and the translation of literature to film language. The survey introduces students to Spain's cultural complexity through readings of works by authors representative of its diverse linguistic and literary traditions.

#### SPAN 2150 The Tradition of Rupture: Latin American Writing from Modernism to the Present (also LATA 2150) @ (LA-AS)

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 2070 or 2090, or CASE Q+ or permission of instructor. Conducted in Spanish. Fall, B. Bosteels and staff; spring, J. M. Rodríguez-García and staff.

Readings and discussion of representative texts of the 19th and 20th centuries from various regions of Spanish America. Among the authors considered are Sarmiento, Hernández, Martí, Darío, Agustini, Cortázar, García Márquez, Poniatowska, and Valenzuela.

#### SPAN 2170 Early Hispanic Modernities: Readings in Medieval and Early Modern Iberian and Spanish-American Literatures (also LATA 2170) # (LA-AS)

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: SPAN 2070 or 2090, or CASE Q+, or permission of instructor. Conducted in Spanish. Fall, M. A. Garcés; spring, S. Pinet.

This course explores major texts and themes of the Hispanic tradition from the 11th to the 17th centuries. We will examine general questions on literary analysis and the

relationship between literature and history around certain events, such as medieval multicultural Iberia, the creation of the Spanish Inquisition in the 15th century and the expulsion of the Jews in 1492; the encounter between the Old and the New Worlds; the "opposition" of high and low in popular culture, and of the secular and the sacred in poetry and prose. Issues of representation regarding gender, identities, and subjectivity may also be studied. Readings may be drawn from medieval short stories and miracle collections; chivalric romances, Columbus, and the literary as well as geographic discovery, Lazarillo de Tormes, Cervantes, Lope de Vega, Calderón, and Sor Juana Inés de la Cruz, among others.

**SPAN 2190 Intermediate Spanish II (Composition and Conversation)**

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 2070, or SPAN 2090, or CASE Q+. Class meets three times a week. T. Beviá and staff.

This advanced-intermediate course is designed to prepare students for study abroad and entry into the major. It prepares students for advanced level courses, in a native-speaker context. Students study stylistics, analyze, and discuss texts, view films, and acquire advanced reading strategies. Continued emphasis is on writing academic essays with editing and peer/instructor feedback. Small classes are conducted entirely in Spanish and the language is actively used in communicative, creative, and critical thinking activities. Students are responsible for reviewing grammar structures on their own and take greater command of their own language learning process. Oral presentations, daily preparation, and active participation are required. SPAN 2190 may be taken concurrently with SPAN 2140, 2150, or 2170.

**SPAN 2200 Perspectives on Latin America (also LATA 2200) @ (CA-AS)**

Spring. 3 credits. Highly recommended for Latin American studies concentrators. Conducted in English. 1-credit disc sec conducted in Spanish. B. Bosteels and C. Lawless.

Interdisciplinary, co-taught course offered every spring. Topics vary by semester, but readings always focus on current research in various disciplines and regions of Latin America. The range of issues addressed include the economic, social, cultural, and political trends and transitions in the area. In the weekly meetings, instructors and guest lecturers facilitate student discussions. Students taking the course are required to participate in all class discussions and write a research paper in their chosen focus area.

**SPAN 2230 Perspectives on Spain (LA-AS)**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 2190 or permission of instructor. Conducted in Spanish. P. Keller.

An introduction to Spain's history, plural cultures, and present-day society. Through a series of key literary works, films, and other visual representations we will explore such topics as the place of tradition, religion, and the family in modern Spain. Our focus will be on the transformation of Spain from an authoritarian state under General Franco's dictatorship (1939-1975) into a remarkably diverse and pluralistic nation in which linguistic, cultural, political, and gender

differences have been consecrated in a very progressive legislation. This course satisfies the main requirement for the minor in Spanish, may be used as an elective for the major, and is crucial to those planning to study abroad in Spain in the near future.

**SPAN 2340 Faith, Love, and Adventure in Medieval Spain # (LA-AS)**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: SPAN 2190, CASE Q++, or permission of instructor. S. Pinet.

Examines a wide variety of cultural objects and practices of Medieval Spain—from art objects to religious practices, from poetry to music—to address questions of identity, faith, institutions, historicity, and nation-building in multicultural Iberia. Students are expected to participate actively in class discussion and to prepare written critical analyses. Primary sources constitute the main corpus, but modern perspectives on the Spain of the Middle Ages are also included.

**SPAN 2360 Shipwrecks: Disaster, Deliverance, and Colonial Modernity (also FREN 3365) (LA-AS)**

Spring. 4 credits. G. Aching.

This course examines actual and imagined shipwrecks as the means by which witnesses, survivors, writers, and artists reflect on the relation between disaster and deliverance; civilization and barbarism, and necessity, freedom, and contingency, and the role of capitalism in these relations. The course begins with classical readings on shipwrecks and castaways, such as selections from Homer's *Odyssey*, the shipwreck of St. Paul, and Horace's shipwrecked sailor. Subsequent readings focus principally on shipwrecks within colonial frameworks, such as Alvar Núñez Cabeza de Vaca's *Castaways*, Luis de Góngora's *Solitudes*, Daniel Defoe's *Robinson Crusoe*, Jen-Baptiste Savigny's and Alexandre Corréard's *Narrative of a Voyage to Senegal in 1816*, as well as on Herman Melville's *Moby Dick*. Critical readings include selections from Marx's *Capital* and C. L. R. James's *Mariners, Renegades, and Castaways*.

**SPAN 3010 Hispanic Theatre Production (also LATA 3010)**

Fall. 1-3 credits, variable. *3 credits satisfies Option 1 of language requirement and fulfills (LA-AS).* D. Castillo.

Students develop a specific dramatic text for full-scale production. The course involves selection of an appropriate text close analysis of the literary aspects of the play, and group evaluation of its representational value and effectiveness. All students in the course are involved in some aspects of production of the play, and write a final paper as a course requirement. Credit is variable depending upon the student's role in play production: a minimum of 50 hours of work is required for 1 credit; a maximum of 3 credits are awarded for 100 hours or more of work.

**SPAN 3020 Spanish in the Disciplines (also LATA 3020)**

Fall or spring. 1 credit. Staff.

Spanish-language discussion section supplementing the course materials during the lecture section including conversation in Spanish and discussion of course lecture in Spanish.

**SPAN 3100 Advanced Spanish Conversation and Pronunciation**

Fall or spring. 3 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 2190 or CASE Q++. B. Teutli.

Conversation course with intensive oral practice obtained through the production of video programs. Students practice the fundamental aspects of communication in the standard spoken and written Spanish, with some focus on dialectal variations. There are weekly pronunciation labs.

**SPAN 3110 Advanced Spanish Writing Workshop**

Fall or spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 2190 or CASE Q++ or equivalent. C. Lawless and staff.

This course, which is required for the major, is designed to help the learner develop increased accuracy and sophistication in writing in Spanish for academic purposes. To this end, there will be ample writing and revising practice, with a focus on specific grammatical and lexical areas, customized to the needs of the students enrolled in the course. SPAN 3110 may be taken concurrently with SPAN 2140, 2150, or 2170.

**SPAN 3170 Creative Writing Workshop (in Spanish)**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 2140, 2150, 2170, or 2190, or CASE Q++, or permission of instructor. Conducted in Spanish. E. Paz-Soldán.

Focuses on the practice of narrative writing in Spanish. Explores what makes a novel and a short story work, paying close attention to narrative structure, plot, beginnings/endings, character development, theme, etc. Students read classic novels and short stories as points of departure for the discussion. Because the course is a workshop, students are expected to write their own fiction.

**SPAN 3300 Literature and the Arts (LA-AS)**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: SPAN 2140, 2150, or 2170, or permission of instructor. J. M. Rodríguez-García.

Literature is just one of many genres and media that artists have used to capture the ongoing transformations in our ways of looking at reality. The dialogue between literature and other artistic productions (e.g., painting, music, sculpture) will be the main focus of this course, whose topics may feature one or more of the following combinations: the interface of poetry and the visual arts, of fiction and cartography, and of avant-garde writing and technology-based modes of representation, among others.

**SPAN 3540 Stages: Theater of Early Modern Spain # (CA-AS)**

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisites: SPAN 2140, 2150, or 2170, or permission of instructor. S. Pinet.

This is a survey course of theater of Golden Age Spain. Historical development of the genre within a Spanish and European context will be emphasized, while addressing questions of literary history, social context, the space of the stage, evolving structure of the "comedia," etc. Authors may include Lope de Vega, Tirso de Molina, Calderón de le Barca, Juan Ruiz de Alacón, Augustín Moreto, Sor Juana Inés de la Cruz.

**SPAN 3600 Autobiographical Narrative and the Cuban Socialist Revolution (LA-AS)**

Fall. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 2140, 2150, 2170, or 2190, or CASE Q++, or permission of instructor. G. Aching.

This course examines the language through which various autobiographical subjects narrate their relationship to the Cuban Socialist Revolution from different perspectives. Beginning with Fidel Castro's pre-revolutionary speech, "La historia me absolverá," as an example of epic, republican discourse, the course focuses on Ernesto Che Guevara's description of the ideal relation between the revolutionary subject and socialism in "El hombre y el socialismo en Cuba"; Edmundo Desnoes' self-questioning narrator in the novel *Memorias del subdesarrollo*; Miguel Barnet's ethnographic rendering of Esteban Montejo's life story in *Biografía de un cimarrón*; and Reinaldo Arenas' description of his life under the socialist regime as "persona non grata" in *Antes que anochezca*. The critical framework for these readings consists of a variety of reflections on subjectivity and autobiographical writing, such as Karl Marx's *Communist Manifesto*, selected excerpts from Judith Butler's *The Psychic Life of Power*, and Sylvia Molloy's *At Face Value: Autobiographical Writing in Spanish America*.

**SPAN 3930 Contemporary Latino Writers (also LASP 3930) (LA-AS)**

Spring. 4 credits. D. Castillo.

This course looks at the work of a number of women from different racial, geographical, social class, and linguistic backgrounds, and we read works by U.S.-based authors who write in English, Spanish, and Spanglish. We explore some of the rich heritage of Latinas in a variety of genres, including poetry, narrative fiction, essay, theater, and film. We will include texts by writers like Lucha Corpi, Lorna Dee Cervantes, Cherrie Moraga, Migdalia Cruz, Ana Castillo, Lourdes Portillo, and Patricia Cardoso. Opportunities are provided for those students who wish to develop nontraditional responses to the fiction and essays.

**SPAN 3940 Spanish Cinema: The Sinister, The Satirical, and The Scandalous**

Spring. 4 credits. *Satisfies Option 1 of language requirement.* Prerequisite: SPAN 2140, 2150, 2170, or CASE Q++, or permission of instructor. Conducted in Spanish. P. Keller.

This course offers an in-depth survey of Spanish films directed and produced between the years of 1950 and 1975. In addition to studying what some argue to be Spain's three greatest directors of all time—the three "Bs" (Luis Buñuel, Juan Antonio Brademk, and Luis García Berlanga)—we will also examine films by Carlos Saura, Basilio Martín Patino, Vicente Escrivá, Victor Erice, and Fernando Fernán Gómez. The course will also focus on common thematic and stylistic tropes among directors considered to be at the forefront of the Nuevo cine español, or Spanish New Wave Cinema. Other topics to be discussed include: the politics of censorship, exile, aperturismo, the Salamanca and Barcelona schools, violence and language, dictatorship, the gaze and structure of desire. All film viewings are mandatory and will be scheduled outside of class. Supplemental readings will provide historical context and background,

biographical information, and introduction theory and criticism.

**SPAN 4150 Negritude and Negritude: Africanist Poetics and Politics (also SPAN 6150, FREN 4150/6150) @ (LA-AS)**

Fall. 4 credits. Open to students with very good reading knowledge of both Spanish and French. G. Aching.

This course examines the dynamic though often tense convergence of ethnographic writing, surrealist practices, communist politics, and anti-colonialism in the Spanish and French-speaking Caribbean from roughly 1925 to 1945. Even though we will have the opportunity to explore significant aspects of these social, artistic, and political activities in the region during this period, our principal goal is to analyze how these rival activities informed the discourses of "negritude" and "négritude" and provided them with their artistic and political radicalism. Primary readings include works by Luis Palés Matos (from *Tuntún de pasa y grifería*) Nicolás Guillén (*Motivos de son*), Emilio Ballagas (from *Cuaderno de poesía negra*), Alejo Carpentier (*Ecué Yamba-O*), Lydia Cabrera (from *Cuentos negros*), Aimé Césaire (*Cabier d'un retour au pays natal*), Jean Price-Mars (*Ainsi Parla l'oncle*), Jacques Roumain (*Gouverneurs de la rosée*), and Léon Damas (from *Pigments*). These readings will be placed in dialogue with writings by Freud, André Breton, Suzanne Césaire, José Ortega y Gasset, Jean-Paul Sartre, René Ménil, José Lezama Lima, Josaphat Kubayanda, A. James Arnold, Michael J. Dash, and others. We will also examine a limited number of works of art by Pablo Picasso and Wilfredo Lam.

**SPAN 4190–4200 Special Topics in Spanish Literature**

4190, fall; 4200, spring. 2–4 credits each semester. Prerequisite: permission of instructor. Staff.

Guided independent study of special topics.

**SPAN 4290–4300 Honors Work in Spanish**

4290, fall; 4300, spring (yearlong). 8 credits. R grade given at end of fall semester and final grade at end of spring semester. Open to junior and seniors. Consult director of honors program for more information. Staff.

**SPAN 4500 Literature of the Conquest (also SPAN 6500) (LA-AS)**

Spring. 4 credits. Conducted in Spanish. M. Antonia Garcés.

This course examines the cultural and psychological impact of the "Discovery" on the literatures of the Old and the New World. In a voyage that takes us from the Caribbean to the mesetas of ancient Mexico and the Andean regions of South America, we will explore the formation of various discourses of the New World through a close reading of 16th- and 17th-century European and Amerindian texts. Particular attention will be paid to the formation of an "American discourse" in the literary subjects who launched a counteroffensive against the political views of the colonizers. Reading selections may be drawn from Columbus, Cabeza de Vaca, Bartolome de las Casas, Hernán Cortes, Bernal Díaz, Aztec and Maya testimonies on the Conquest, Michel de Montaigne, Pederico Cieza de Leon, Inca Garcilaso de la Vega, Guaman Poma, and Alonso de Ercilla, among others.

**SPAN 4550 Don Quijote (also SPAN 6530) # (LA-AS)**

Fall. 4 credits. Prerequisite: SPAN 2170 and one of the following two courses: SPAN 2140 or 2150, or permission of instructor. Conducted in Spanish. M. A. Garcés.

*Don Quijote* is not only the first modern work of literature, as Foucault noted, but also the first European novel, as the Czech novelist Kundera hailed it. In fact, Foucault believed that Cervantes' discovery of the arbitrary relation of words and things ushered in the modern age. A revolutionary document of its own age, *Don Quijote* confronts us with the complex history of Christians, Jews, and Muslims in early modern Spain, especially, with the conflicts between Christianity and Islam in the Iberian Peninsula and the Mediterranean. Four centuries before Freud, Cervantes questioned the meaning of madness, inspiring into the close bonds between delusions and fantasy, dreams and artistic production. Stressing a critique of creation with Cervantes' own creation, our close reading of *Don Quijote* will explore its links to the network of institutions, practices, and beliefs that constituted early modern Spanish culture.

**SPAN 4600 More than Meets the Eye: Early 20th-Century Spanish Theater as Theory**

Fall. 4 credits. M. Balsa.

This seminar aims to provide an overview of modern Brazilian literature and Brazilian critical theory for graduate students and advanced undergraduate students specializing in Latin America. It will cover the major literary movements and the essential canonical writers and cultural critics of 19th- and 20th- century Brazil. Some of the topics to be discussed are the formation of a national literature; literature and slavery; foreign models and rewritings; diverse definitions of national spaces and landscapes; relationships between aesthetic innovations and political issues and different literary definitions of frontiers, margins and exclusions. Authors to be read include Aluzio Azevedo, J. M. Machado de Assis, Mário de Andrade, Oswald de Andrade, Gilberto Freyre, Graciliano Ramos, Clarice Lispector, Caio Fernando Abreu, João Gilberto Noll, and Ana Cristina César. We will also be reading accompanying texts by Antônio Candido, Silviano Santiago, Roberto Schwarz, and Flora Süssekind, among others.

**SPAN 4630 Modern Andean Literature (LA-AS)**

Fall. 4 credits. J. E. Paz-Soldán.

This course examines the literary production of the Andean region (Perú, Bolivia, and Ecuador). Taking as our point of departure the early 20th century, we will examine issues such as the sociocultural heterogeneity of the region, which challenges the idea of a unified, modern nation-state; the tension of interethnic relations, and the emergence of indigenist cultural and political movements; the clashes between modernity and tradition, and the emergence of urban literature.

**SPAN 4670 Modern Lyric Forms (CA-AS)**

Spring. 4 credits. Conducted in Spanish. J. M. Rodríguez-García.

Literature is just one of the many genres and media that artists have used to capture the ongoing transformations in our ways of looking at reality. The dialogue between literature and painting will be the main focus of this course, whose topics include the literary representation of still-life scenes; the

modern artist's fascination with such disparate materials as clay and glass; the equation of artistic works with vessels—"vasos"—into which a meaning is poured; and the treatment of mass-produced commodities and gadgets as art works. The studied poems will most often be correlated with works in the visual arts that will be shown in class. We will also study two major texts by playwright Antonio Buero Vallejo that fictionalize the lives of the great Spanish painters Velázquez and Goya.

**SPAN 4720 Between Fact and Fiction: The Documentary Tradition in Latin American Literature, Film, and Visual Arts (also PORT 4720) @ (CA-AS)**

Spring. 4 credits. L. Horne.  
For description, see PORT 4720.

**SPAN 4750 Between Landscape and Loss: Visualizing Contemporary Spain (LA-AS)**

Fall. 4 credits. This is the mandatory senior seminar for majors. P. Keller.  
This course offers a survey of 20th-century Spanish culture by exploring texts centered on the theme of landscape and loss. The main aim of the class will be to think about representations of collective and individual experiences of loss through different literary genres and visual mediums. Some of the topics to be discussed will be loss of empire, exile, homecoming, nostalgia, mourning, existentialism, failure and hope. Another aim of the course will be to discuss the landscape as visual narratives that portray certain struggles for loss and recovery by examining texts that depict wounded or scarred spaces, uninhabitable homes, abandoned towns, and desolate, ghostly cities. An additional focus of the course will be to consider how trauma and memory are linked to the concept of "place," and thus to question the relationship between the poetics of place and the politics of loss. The course includes both canonical and non-canonical works and spans a range of genres (painting, documentary, short narrative, novel, essay, film, photography) dating from the early 1900s to the present. Among the artists we will look at are Unamuno, Salinas, Dalí, Buñuel, García Lorca, Cela, Llamazares, Erice, Saura, Suso de Toro, and Fontcuberta. Supplemental readings in Spanish history and introductory theory and criticism will be assigned to complement primary texts.

**SPAN 4830 Macondo/McOndo (SBA-AS)**

Spring. 4 credits. J. E. Paz-Soldán.  
This course explores Latin American literature from the '60s onward, taking a look at the changing landscape, from the heyday of the Boom writers and Garcia Marquez' "magical realism," to urban fiction in the '90s. We will study authors such as Garcia Marquez, Manuel Puig, Daimela Elit, Roberto Bolano, Alberto Fuguet, Mario Bellatin, and Mayra Santos-Febres.

**SPAN 6150 Negritude and Negritude: Africanist Poetics and Politics (also SPAN 4150, FREN 4150/6150)**

Fall. 4 credits. Open to students with very good reading knowledge of both Spanish and French. G. Achting.  
For description, see SPAN 4150.

**SPAN 6240 Critical Theories: Marx and Freud in Latin America**

Fall. 4 credits. B. Bosteels.  
Seminar studying some of the most important models of critical theory available for the

study of literature, culture and society in Latin America. Particular attention is given to creative and theoretical works that elaborate upon the doctrines of Marx and Freud and their followers.

**SPAN 6310 Subjectivity in the Slave Narrative**

Spring. 4 credits. G. Achting.  
This seminar will begin with a close reading of Hegel's section on self-consciousness, especially the sub-sections "Lordship and Bondage" and "Stoicism, Skepticism, and the Unhappy Consciousness" from *Phenomenology of Spirit*, and continue with selected chapters from Judith Butler's *The Psychic Life of Power*. We will follow these readings with an examination of interpretations of Hegel's theory of the subject in selected readings from W. E. B. Du Bois (*The Souls of Black Folk*); Orlando Patterson (*Slavery and Social Death*); Paul Gilroy (*The Black Atlantic*); Howard McGary and Bill E. Lawson (*Between Slavery and Freedom*); Susan Buck-Morss (*Hegel and Haiti*); and Ian Baucom (*Specters of the Atlantic*). The slave narratives that we will examine include Olaudah Equiano's *The Interesting Narrative of the Life of Olaudah Equiano*, Juan Francisco Manzano's *Autobiografía de un esclavo*, R. R. Madden's translation of Manzano's writings, Frederick Douglass' *Narrative of the Life of Frederick Douglass: An American Slave*; and Mary Prince's *The History of Mary Prince: A West Indian Slave Related By Herself*. We will also read "fictionalized" narratives of the experience of enslavement such as, Gertrudis Gómez de Avellaneda's *Sab*, Anselmo Suárez y Romero's *Francisco*, Antonio Zambrana's *El negro Francisco*, and Miguel Barnet's more contemporary *Biografía de un cimarrón*. This seminar will not focus on how the selected slave narratives seamlessly illustrate the validity of Hegel's theory of the subject; nor will it attempt to come up with a notion of black subjectivity. Rather, our readings and discussions will elucidate and examine (1) the tensions between abstraction and experience/history in the narrative construction of subjects who had indeed been enslaved; (2) the romantic imagination and sympathy and their articulations in British abolitionist and Cuban reformist discourses; and (3) sensibility and the production of gendered and racialized subjects. One of the seminar's goals will also be to interrogate specific relations between experiences of slavery and modernity.

**SPAN 6390-6400 Special Topics in Spanish Literature**

6390, fall; 6400, spring. 2-4 credits each semester. Staff.  
Guided independent study for graduate students.

**SPAN 6470 Theory of the Novel: Modernity's Subjects**

Fall. 4 credits. S. Pinet.  
Emerging in the wake of psychoanalysis, the theory of the novel is an effect of a new discourse on the subject within a modernity that sees itself as different and searches for a historical parallel. Focused on four late medieval Iberian genres that explore different possibilities for prose fiction, this course will alternate the reading of primary texts (*Amadis de Gaula*, *Cárcel de amor*, *La Diana*, *Lazarillo de Tormes*) with selected readings from canonical theorists of the novel, especially those of relevance to Hispanic literary criticism, which may include Lukács, Guillén,

Ortega y Gasset, Bakhtin, Jameson, Frye, Culler, Cascardi, Benjamin, Freud, Lévi-Strauss, assessing the possible consequences of this course's main hypothesis: that of the novel is simultaneously a theory of modernity and a theory of the subject.

**SPAN 6500 Literature of the Conquest (also SPAN 4500)**

Spring. 4 credits. Conducted in Spanish.  
M. Antonia Garces.  
For description see, SPAN 4500.

**SPAN 6530 Don Quijote (also SPAN 4550)**

Fall. 4 credits. M. A. Garcés.  
For description, see SPAN 4550.

## RUSSIAN

N. Pollak, chair; P. Carden, director of undergraduate studies (on leave spring 2010) (226B Morrill Hall, 255-8350); S. Paperno, director of Russian language program (226E Morrill Hall); W. Browne (on leave fall 2009), R. Krivitsky, S. Senderovich (on leave fall 2009), G. Shapiro (on leave fall 2009), V. Tsimberov. Visiting: K. Bättig von Wittelsbach, C. Golkowski, G. Nehler

For updated information, consult our web sites:

(literature) [www.arts.cornell.edu/russian](http://www.arts.cornell.edu/russian)  
(language) [russian.cornell.edu](http://russian.cornell.edu)

## The Russian Major

Russian majors study Russian language, literature, and linguistics and emphasize their specific fields of interest. It is desirable, although not necessary, for prospective majors to complete RUSSA 1121-1122, 2203-2204, and RUSSL 2209 as freshmen and sophomores, because these courses are prerequisites to most of the junior and senior courses that count toward the major. Students may be admitted to the major upon satisfactory completion of RUSSA 1122 or the equivalent. Students who elect to major in Russian should consult the director of undergraduate studies as soon as possible. For a major in Russian, students are required to complete (1) RUSSA 3303-3304 or the equivalent, and (2) 18 credits from 3000- and 4000-level literature and linguistics courses, of which 12 credits must be in literature in the original Russian.

With the permission of the instructor, students may add 1 credit to certain literature courses by registering for RUSSA 4491. Such courses involve a one-hour section each week with work in the Russian language. Students may count two 1-hour credits toward the 12 hours of Russian literature in the original language required for the major.

## Satisfying the Foreign Language Requirement

### 1. Options 1a and 1b:

1a. Any Russian-language (RUSSA) course totaling 3 or 4 credits at the 2000 level or above (with the exception of RUSSA 3300 Directed Study) satisfies the Arts and Sciences language requirement under Option 1a.

1b. After completing the prerequisites RUSSA 1121 and RUSSA 1122, students may satisfy the language requirement by taking RUSSL 2209. Students who qualify for RUSSL 2212 may satisfy the language requirement by

taking that course. Other RUSSL courses that are taught in Russian may also be used when appropriate.

**2. Option 2:**

- In two semesters: RUSSA 1103 and 1121 in the fall, RUSSA 1104 and 1122 in the spring.
- In three semesters: RUSSA 1121 in the fall, 1122 in the spring, 2203 the following fall.
- In four semesters: RUSSA 1121 in the fall, 1122 in the spring, 1125 the following fall, 1126 the following spring.

**Study Abroad**

Students from Cornell frequently participate in the Council on International Educational Exchange and the American Council of Teachers of Russian programs for language study, as well as other Russian language programs. Opportunities are available for study during the summer, a single semester, or the full year. Further information is available from Slava Paperno (226E Morrill Hall) in the fall, from Professor Wayles Browne in the Department of Linguistics (220 Morrill Hall) in the spring, and from the Cornell Abroad Office.

**Honors.** Students taking honors in Russian do individual reading and research and write an honors essay. Students planning to take honors should consult the director of undergraduate studies in their junior year.

**Russian Language**

Detailed information and schedules of the Russian language courses, as well as office hours of the instructors, are available at: [russian.cornell.edu](http://russian.cornell.edu).

Suggested tracks for first- and second-year Russian language study:

- First-year intensive: 1103 + 1121 in the fall, 1104 + 1122 in the spring
- First-year nonintensive: 1121 in the fall, 1122 in the spring
- Second-year intensive: 1125 + 2203 in the fall, 1126 + 2204 in the spring
- Second-year nonintensive: 2203 in the fall, 2204 in the spring
- Second-year "mostly reading; lighter load": 1125 in the fall, 1126 in the spring

**RUSSA 1103-1104 Conversation Practice**

1103, fall; 1104, spring. 2 credits each semester. Students must enroll in one sec of 1103 and one sec of 1121 in fall, and one sec of 1104 and one sec of 1122 in spring. R. Krivitsky.

Reinforces the speaking skills learned in RUSSA 1121 and 1122. Homework includes assignments that must be done in the language lab or on the students' own computers.

**RUSSA 1121-1122 Elementary Russian through Film**

1121, fall; 1122, spring. 4 credits each semester. Prerequisite: for RUSSA 1122, RUSSA 1121. R. Krivitsky, S. Paperno, and V. Tsimberov.

Gives a thorough grounding in all the language skills: listening, speaking, reading and writing. Course materials include clips from original Russian films and television programs. Homework includes assignments

that must be done in the language lab or on the students' own computers.

**RUSSA 1125-1126 Reading Russian Press**

1125, fall; 1126, spring. 2 credits each semester. sec 1 for non-native speakers of Russian; sec 2 for native speakers of Russian. Prerequisite for 1125 sec 1: RUSSA 1122 or placement by department; prerequisite for 1126 sec 1: RUSSA 1125 or placement by department; prerequisite for 1125 and 1126 sec 2: placement by department. Times TBA with instructors.\* See starred (\*) note at end of RUSSA section. S. Paperno and V. Tsimberov.

The emphasis is on reading unabridged articles on a variety of topics from current Russian periodicals and web pages and translating them into English; a certain amount of discussion (in Russian) may also be undertaken.

**RUSSA 2203-2204 Intermediate Composition and Conversation**

2203, fall; 2204, spring. 3 credits each semester. *Satisfies Option 1.* Prerequisite: for RUSSA 2203, RUSSA 1122 and 1104, or RUSSA 1122 with grade higher than B, or placement by department; for RUSSA 2204, RUSSA 2203 or equivalent. R. Krivitsky, S. Paperno, and V. Tsimberov.

Guided conversation, translation, reading, pronunciation, and grammar review, emphasizing the development of accurate and idiomatic expression in the language. Course materials include video clips from an original Russian feature film and work with Russian web sites, in addition to the textbook.

**RUSSA 3300 Directed Studies**

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor.\* See starred (\*) note at end of RUSSA section. Staff.

Taught on a specialized basis for students with special projects (e.g., to supplement a non-language course or thesis work).

**RUSSA 3303-3304 Advanced Composition and Conversation**

3303, fall; 3304, spring. 4 credits each semester. *RUSSA 3303 Satisfies Option 1.* Prerequisite: for RUSSA 3303, RUSSA 2204 or equivalent; for RUSSA 3304, RUSSA 3303 or equivalent. R. Krivitsky, S. Paperno, and V. Tsimberov.

Reading, writing, and conversation: current Russian films (feature and documentary), newspapers, television programs, Russian web sites, and other materials are used. In some years, completing interviews with native speakers of Russian is a component of RUSSA 3304.

**RUSSA 3305-3306 Reading and Writing for Heritage Speakers of Russian**

3305, fall; 3306, spring. 2-3 credits, variable. Prerequisite: placement by department. Times TBA with instructor.\* See starred (\*) note at end of RUSSA section. Course may be cancelled if enrollment is insufficient. S. Paperno and V. Tsimberov.

Intended for students who speak grammatically correct Russian but do not know Russian grammar and have not learned to read or write Russian well (or have not learned written Russian at all). The two courses are very similar and do not constitute a sequence. Each may be taught slightly faster or slower in a given year, depending on the needs and interests of the students. Two

classes a week teach writing and grammar and include related reading. These classes are required, and the students who take them receive 2 credit hours. The third (optional) class teaches reading and discussion, and grants an additional credit hour.

**RUSSA 3308 Russian Through Popular Culture**

Spring. 2-3 credits, variable. Prerequisite: RUSSA 3304 for non-native speakers of Russian; RUSSA 3305 or 3306 for heritage speakers of Russian; for all others with advanced knowledge of Russian, placement by department. Not open to fluent native speakers of Russian (recommended: RUSSA 3309/3310 and RUSSL courses). Conducted in Russian. Times TBA with instructor.\* See starred (\*) note at end of RUSSA section. R. Krivitsky.

Aims to expand the students' vocabulary and their comprehension, speaking, reading, and writing skills, as well as cultural competence, through a mosaic study and discussion of a variety of styles in contemporary Russian popular culture (1970s through the present). Course materials include traditional and urban folklore, film, animation, published texts (prose and poetry), and recordings of songs. Includes two or three essays or similar writing assignments. Work is distributed so that a student may attend all three weekly meetings for 3 credit hours or only two of the meetings for 2 credit hours.

**RUSSA 3309-3310 Advanced Reading**

3309, fall; 3310, spring. 4 credits each semester. *Satisfies Option 1.* Sec. 1 for non-native speakers of Russian; sec 2 for native speakers of Russian. Prerequisites: for sec. 1 of RUSSA 3309, RUSSA 2204; for RUSSA 3310, RUSSA 3309 or equivalent; for sec 2 of 3309 and 3310, placement by department. Two meetings per week. Times TBA with instructors.\* See starred (\*) note at end of RUSSA section. May be canceled if enrollment is insufficient. S. Paperno and V. Tsimberov.

Designed to teach advanced reading and discussion skills. In section 1, weekly reading assignments include 20-40 pages of unabridged Russian, fiction or nonfiction. In section 2, the weekly assignments are 100-130 pages. Discussion of the reading is conducted entirely in Russian and centered on the content of the assigned selection.

**RUSSA 4401 History of the Russian Language (also LING 4417) (HA-AS)**

Spring. 4 credits. W. Browne. For description, see LING 4417-4418.

**[RUSSA 4403 Linguistic Structure of Russian (also LING 4443) (KCM-AS)]**

Fall. 4 credits. Next offered 2010-2011. W. Browne.

For description, see LING 4443-4444.]

**RUSSA 4413-4414 Advanced Conversation and Stylistics**

4413, fall; 4414, spring. 2 credits each semester. Prerequisites: for RUSSA 4413, RUSSA 3304 or equivalent; for RUSSA 4414, RUSSA 4413 or equivalent. Times TBA with instructor.\* See starred (\*) note at end of RUSSA section. V. Tsimberov.

Involves discussion of authentic Russian texts and films (feature or documentary) in a variety of nonliterary styles and genres.

**RUSSA 4491 Reading Course: Russian Literature in the Original Language**

Fall or spring. 1 credit each semester.  
Prerequisite: permission of instructor. Times TBA with instructor.\* See starred (\*) note at end of RUSSA section. Staff.

To be taken in conjunction with any Russian literature course at the advanced level. Students receive 1 credit for reading and discussing works in Russian in addition to their normal course work.

**[RUSSA 6601 Old Church Slavonic (also LING 6663)]**

Fall. 4 credits. Next offered 2010-2011. W. Browne.

For description, see LING 6663.]

**[RUSSA 6602 Old Russian Texts (also LING 6662)]**

Spring. 4 credits. Next offered 2010-2011. W. Browne.

For description, see LING 6662.]

**RUSSA 6633-6634 Russian for Russian Specialists**

6633, fall; 6634, spring. 1-4 credits, variable. Prerequisite: four years of college Russian or equivalent. Times TBA with instructor.\* See starred (\*) note at end of RUSSA section. Staff.

Designed for students whose areas of study require advanced active control of the language. Fine points of syntax, usage, and style are discussed and practiced. Syllabus varies from year to year.

**[RUSSA 6651 Comparative Slavic Linguistics (also LING 6671)]**

Fall. 4 credits. Next offered 2010-2011. W. Browne.

For description, see LING 6671.]

\* For RUSSA courses marked "Time to be arranged with instructor(\*)", bring your class schedule to the organizational meeting, usually held on the second or third day of the semester, where class meeting times will be chosen so as to accommodate as many students as possible. The date, time, and place of the organizational meeting is announced at [russian.cornell.edu](mailto:russian.cornell.edu), and posted at the Russian Department office (226 Morrill Hall). You may also contact the department office at 255-8350 or e-mail [russiandept@cornell.edu](mailto:russiandept@cornell.edu).

\*\*For TBA courses taught by Wayles Browne, contact Professor Browne ([ewb2@cornell.edu](mailto:ewb2@cornell.edu) or 255-0712). Note that Professor Browne will be on leave in the fall term.

**Russian Literature**

A variety of courses is offered in Russian literature. Readings may be in English translation or in the original Russian or both (see course descriptions). Instruction often encompasses culture and intellectual history as well as literature. Some courses are cross-listed with appropriate departments.

First-Year Writing Seminars: consult the John S. Knight Institute brochure for times, instructors, and descriptions. Next offered 2011-2012.

**[RUSSL 2207-2208 Themes from Russian Culture # (LA-AS)]**

Spring. 3 credits. In translation. Offered alternate years; next offered 2010-2011. G. Shapiro.

These courses are based on lectures, discussions, and audio-visual presentations and cover various aspects of Russian culture, such

as literature, art, architecture, music, religion, philosophy, and social thought. RUSSL 2207 extends through the 18th century, and RUSSL 2208 covers the 19th and 20th centuries.]

**RUSSL 2209 Readings in Russian Prose and Poetry # (LA-AS)**

Fall. 3 credits. Reading in Russian; discussion in English. *Satisfies Option 1.* Prerequisite: for students with 2+ semesters of Russian language (RUSSA 1121/1122 or equivalent), N. Pollak.

Short classics of the 19th and early 20th centuries, including Pushkin, Lermontov, Tolstoy, Chekhov, Blok, Akhmatova. Assignments adjusted for native fluency. May be used as a prerequisite for RUSSL 3300-4400 courses with reading in Russian.

**RUSSL 2212 Readings in 20th-Century Russian Literature (LA-AS)**

Spring. 3 credits. Reading, writing, and discussion in Russian. *Satisfies Option 1.* G. Shapiro.

Designed for students with native background needing a course to satisfy the language requirement. Goals are to introduce students to 20th-century Russian literature in the original and to improve their Russian reading and writing skills. Readings are from 20th-century masters such as Bunin, Bulgakov, and Nabokov. May be used as a prerequisite for RUSSL 3300-4400 courses with reading in Russian.

**[RUSSL 2279 The Russian Connection, 1830 to 1867 (also COML 2790) # (LA-AS)]**

Fall. 4 credits. In translation. Next offered 2010-2011. Staff.

Examines Russian prose of mid-19th century (Lermontov, Tolstoy) against background of European prose (Rousseau, Musset, Stendhal, Thackeray, et al.).]

**[RUSSL 2280 The Russian Connection, 1870 to 1960 (also COML 2800) (LA-AS)]**

Fall. 4 credits. In translation. Next offered 2010-2011. Staff.

Examines the Dostoevskian novel against background of European prose (Diderot, Camus, Sarraute, et al.)]

**[RUSSL 3331 Introduction to Russian Poetry # (LA-AS)]**

Spring. 4 credits. Reading in Russian; discussion in English. Prerequisite: proficiency in Russian or permission of instructor. May be counted toward 12 credits of Russian literature in original language for Russian major. Next offered 2011-2012. Staff.

A survey of Russian poetry, with primary emphasis on the analysis of individual poems by major poets.]

**[RUSSL 3332 Russian Drama and Theater (also THETR 3220) # (LA-AS)]**

4 credits. In translation. Next offered 2011-2012. Staff.

19th- to 20th-century plays (Gogol, Ostrovsky, Chekhov). Historical period, cultural atmosphere, literary trends.]

**[RUSSL 3333 20th-Century Russian Poetry (LA-AS)]**

4 credits. Reading in Russian; discussion in English. May be counted toward 12 credits of Russian literature in original language for Russian major. Next offered 2010-2011. N. Pollak.

Close readings of lyrics by major 20th-century poets.]

**[RUSSL 3334 The Russian Short Story # (LA-AS)]**

4 credits. Reading in Russian; discussion in English. Prerequisite: proficiency in Russian or permission of instructor. May be counted toward 12 credits of Russian literature in original language for Russian major. Next offered 2011-2012. Staff.

Survey of two centuries of Russian storytelling. Analysis of individual stories by major writers. Emphasis on narrative structure and on related landmarks of Russian literary criticism.]

**RUSSL 3335 Gogol # (LA-AS)**

Spring. 4 credits. G. Shapiro.

Selected works of Gogol are read closely in translation and viewed in relation to his life and to the literature of his time.

**[RUSSL 3337 Films of Russian Literary Masterpieces (LA-AS)]**

4 credits. In translation. Next offered 2011-2012. Staff.

Comparative analysis of American films based on Russian novels: *War and Peace* and *Dr. Zhivago*. Problems of translation between media and cultures.]

**[RUSSL 3338 Lermontov's Hero of Our Time # (LA-AS)]**

4 credits. Reading in Russian; discussion in English. Next offered 2010-2011. N. Pollak.

*Hero of Our Time* has been called the first major Russian novel. Close reading, attention to linguistic and literary problems.]

**[RUSSL 3350 Education and the Philosophical Fantasies (also COML 3500) # (LA-AS)]**

Fall. 4 credits. In translation. Next offered 2011-2012. Staff.

Fundamental issues of education explored through great works: Plato's *Republic*, Rousseau's *Emile*, and Tolstoy's *War and Peace*.]

**[RUSSL 3367 The Russian Novel # (LA-AS)]**

Spring. 4 credits. In translation. Students who read Russian may sign up for a discussion section of the Russian text for 1 credit (RUSSA 4491). Next offered 2011-2012. N. Pollak.

The rise of the Russian novel in the 19th century: Pushkin, Lermontov, Dostoevsky, Tolstoy, Chekhov.]

**[RUSSL 3368 20th-Century Russian Literature (LA-AS)]**

Spring. 4 credits. In translation. Students who read Russian may sign up for discussion of Russian text for 1 credit (RUSSA 4491). Next offered 2011-2012. G. Shapiro.

Survey of 20th-century Russian prose, including such writers as Bunin, Bulgakov, and Nabokov, as well as Solzhenitsyn, Shalamov, and Voinovich.]

**RUSSL 3369 Dostoevsky # (LA-AS)]**

Fall. 4 credits. In translation. Limited to 40 students. P. Carden.

A survey of Dostoevsky's major novels: *Notes from Underground*, *Crime and Punishment*, *The Idiot*, and *The Brothers Karamazov*.

**[RUSSL 3373 Chekhov in the Context of Contemporary European Literature and Art # (LA-AS)]**

4 credits. In translation. Next offered 2010-2011. Staff.

Anton Chekhov's stories in the context of the European art of the short story and

contemporary paintings. Readings in English translation.]

**[RUSSL 3385 Reading Nabokov (also ENGL 3790) (LA-AS)]**

4 credits. In translation. Limited to 18 students; priority given to seniors. Next offered 2010–2011. G. Shapiro.

Nabokov's Russian works in translation from *Mary* to *The Enchanter*, and two novels he wrote in Ithaca while teaching literature at Cornell, *Lolita* and *Invitation of a Beheading*.]

**[RUSSL 3393 Honors Essay Tutorial]**

Fall and spring, 8 credits. Must be taken in two consecutive semesters in senior year; credit for first semester is awarded upon completion of second semester. For information, see director of undergraduate studies. Times TBA with instructor. Staff.

**[RUSSL 4409 Russian Stylistics (LA-AS)]**

Spring, 4 credits. Also open to graduate students. Prerequisite: proficiency in Russian or permission of instructor. This course may be counted toward the 12 credits of Russian literature in the original language for the Russian major. S. Senderovich.

Beyond normative grammar. Introduction to idiomatic Russian (morphology, syntax, vocabulary, phraseology) and genres of colloquial and written language. Development of writing skills.

**[RUSSL 4415 Post-Symbolist Russian Poetry (LA-AS)]**

4 credits. Reading in Russian; discussion in English. Prerequisite: proficiency in Russian or permission of instructor. This course may be counted toward the 12 credits of Russian literature in the original language for the Russian major. Next offered 2010–2011. N. Pollak.

Verse, critical prose, and literary manifestos by selected early 20th-century Russian poets, including Annenskii, Pasternak, and Mandelstam.]

**[RUSSL 4430 Practice in Translation (LA-AS)]**

Spring, 4 credits. Prerequisite: proficiency in Russian or permission of instructors. N. Pollak.

Practical workshop in translation: documents, scholarly papers, literary works (prose and poetry). Mostly Russian to English, some English to Russian.

**[RUSSL 4432 Pushkin # (LA-AS)]**

Spring, 4 credits. Reading in Russian; discussion in English. Prerequisite: proficiency in Russian or permission of instructor. May be counted toward 12 credits of Russian literature in original language for Russian major. S. Senderovich.

Selected works by Pushkin: lyrics, narrative poems, and *Eugene Onegin*.

**[RUSSL 4433 Short Works of Tolstoy # (LA-AS)]**

4 credits. Reading in Russian; discussion in English. Prerequisite: RUSSL 2209 or 2212 or equivalent mastery of Russian language skills. Next offered 2011–2012. Staff.

A selection of short stories and short novels in Russian. Attention to style, themes, idioms. Assignments adjusted to students' language capabilities.]

**[RUSSL 4492 Supervised Reading in Russian Literature]**

Fall or spring, 1–4 credits each semester. Independent study. Prerequisite: students must find an advisor and submit a plan before signing up. Times TBA with instructor. Staff.

**[RUSSL 4493 Anton Chekhov # (LA-AS)]**

4 credits. Reading in Russian; discussion in English. Prerequisite: proficiency in Russian or permission of instructor. Next offered 2011–2012. Staff.

Major works of Chekhov in Russian; focus on style and language. Readings include stories ("Anna on the Neck," "Darling," "Steppe") and plays (*Uncle Vanya* and *Seagull*.)]

**[RUSSL 4499 The Avant-Garde in Russian Literature and the Arts (LA-AS)]**

Fall, 4 credits. Reading in Russian; discussion in English. Prerequisite: proficiency in Russian or permission of instructor. P. Carden.

Literature, theater, and the visual arts in the richly innovative period 1890–1920.

**Graduate Seminars**

**[RUSSL 6611 Supervised Reading and Research]**

Fall or spring, 2–4 credits each semester. Prerequisite: proficiency in Russian or permission of instructor. Times TBA with instructor. Staff.

**Related Languages**

*Note: Completion of the 1131–1132–1133–1134 sequence in HUNGR/POLSH/SEBCR fulfills the Option 2 language requirement.*

**Czech**

**[CZECH 3300 Directed Studies]**

Spring, 1–4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor.\*\* See double-starred (\*\*) note at end of UKRAN section. Staff.

Taught on a specialized basis to address particular student needs.]

**Hungarian**

**[HUNGR 1131–1132 Elementary Hungarian]**

3 credits. Prerequisite: for 1132: HUNGR 1131 or permission of instructor. G. Nehler. Teaches the basic grammar of Hungarian. Designed to aid the student in all facets of language acquisition: speaking, listening comprehension, reading, and writing. Second-semester Hungarian (1132) teaches more advanced grammar of the language at an intermediate level.

**[HUNGR 1133–1134 Continuing Hungarian]**

1133, fall; 1134, spring, 3 credits. Prerequisite: for 1133, HUNGR 1132 or permission of instructor; for 1134, HUNGR 1133 or permission of instructor. Next offered 2010–2011. G. Nehler.

A conversation and reading course designed to aid the student in all facets of language acquisition: speaking, listening comprehension, reading, and writing. Fourth-semester Hungarian (1134) teaches more advanced instruction of the language at an intermediate level.]

**[HUNGR 3300 Directed Studies]**

Fall or spring, 1–4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor.\*\* See double-starred (\*\*) note at end of UKRAN section. Staff.

Taught on a specialized basis to address particular student needs.

**[HUNGR 4427 Structure of Hungarian (also LING 4427) (KCM-AS)]**

Spring. Next offered 2010–2011.]

**Polish**

**[POLSH 1131–1132 Elementary Polish]**

1131, fall; 1132, spring, 3 credits each semester. Prerequisite: for POLSH 1132, POLSH 1131 or equivalent. Offered alternate years; next offered 2010–2011. Staff.

Covers all language skills: speaking, listening comprehension, reading, and writing.]

**[POLSH 1133–1134 Continuing Polish]**

1133, fall; 1134, spring, 3 credits each semester. Prerequisites: for POLSH 1133, POLSH 1132 or permission of instructor; for POLSH 1134, POLSH 1133 or equivalent. Times TBA with instructor. \*\*Offered alternate years. See double-starred (\*\*) note at end of UKRAN section. Staff.

An intermediate conversation and reading course.

**[POLSH 3300 Directed Studies]**

Fall or spring, 1–4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor.\*\* See double-starred (\*\*) note at end of UKRAN section. Staff.

Taught on a specialized basis to address particular student needs.

**[POLSH 3301 Polish through Film and Literature (LA-AS)]**

3 credits. *Satisfies Option 1.* Prerequisite: POLSH 1134 or permission of instructor. Times TBA with instructor.\*\* See double-starred (\*\*) note at end of UKRAN section. Next offered 2010–2011. C. Golkowski.

Language proficiency and insight into Polish culture through videos, films, and contemporary texts. Listening and reading comprehension, conversation, grammar review.]

**Serbo-Croatian**

**[SEBCR 1131–1132 Elementary Serbo-Croatian]**

1131, fall; 1132, spring, 3 credits each semester. Prerequisite for SEBCR 1132: SEBCR 1131 or equivalent. Times TBA with instructor. \*\* Offered alternate years. See double-starred (\*\*) note at end of UKRAN section. Staff.

Covers all language skills: speaking, listening comprehension, reading, and writing. Includes Bosnian.

**[SEBCR 1133–1134 Continuing Serbo-Croatian]**

1133, fall; 1134, spring, 3 credits each semester. Prerequisite for SEBCR 1133: SEBCR 1132 or equivalent; for SEBCR 1134: SEBCR 1133 or equivalent. Times TBA with instructor.\*\* See double-starred (\*\*) note at end of UKRAN section. Offered alternate years; next offered 2010–2011. Staff.

An intermediate conversation and reading course.]

**SEBCR 3300 Directed Studies**

Fall or spring. 1-4 credits, variable.  
Prerequisite: permission of instructor.  
Times TBA with instructor.\*\* See double-starred (\*\*) note at end of UKRAN section.  
Staff.

Taught on a specialized basis to address particular student needs.

**[SEBCR 3302 Advanced Serbo-Croatian**

3 credits. *Satisfies Option 1.* Prerequisite: SEBCR 1134 or permission of instructor.  
Next offered 2010-2011. Staff.

Includes Bosnian with Croatian and Serbian. Intensive speaking and writing practice; grammar review. Fiction and nonfiction readings; videos reflecting contemporary South Slavic societies.]

**Ukrainian****UKRAN 3300 Directed Studies**

Spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor.\*\* See double-starred (\*\*) note at end of section. Staff.

Taught on a specialized basis to address particular student needs.

\*\*For these courses, contact the Russian department (russiandept@cornell.edu or 255-8350) for time and place of organizational meeting(s).

**SANSKRIT**

See "Asian Studies."

**SCIENCE AND TECHNOLOGY STUDIES**

S. Hilgartner, chair (304 Rockefeller Hall, 255-6043); K. Vogel (DUS), R. N. Boyd, P. R. Dear, S. H. Hilgartner, R. Kline, C. Leuenberger, B. V. Lewenstein, M. Lynch, T. J. Pinch, A. G. Power, R. Prentice, S. Pritchard, J. V. Reppy, M. W. Rossiter, P. J. Sengers, S. Seth, Emeritus: W. R. Lynn, L. P. Williams. Adjunct faculty: R. W. Miller, H. Shue, Z. Warhaft

In today's world, issues at the intersection of the technical and the social arise continually in all aspects of life, from the role of computers in society, the history of evolutionary theory, and the challenges of environmental controversies, to the ethical dilemmas of genomics and biomedicine. The field of science and technology studies (S&TS) addresses such issues through the study of the social aspects of knowledge, especially scientific and technological knowledge. S&TS explores the practices that shape science and technology, examines their social and cultural context, and analyzes their political and ethical implications. S&TS provides a strong liberal arts background from which students can go on to careers in law, medicine, environmental policy, business, and a variety of other professions where the social aspects of science and technology loom large.

**The Science and Technology Studies Major**

The Department of Science and Technology Studies has revised the major for students applying to the major, effective fall 2008.

Admission to the major requires successful completion of one S&TS course. First-Year

Writing Seminars may count as the pre-requisite, but not as part of the major. There are no other prerequisites, but students should plan to fulfill the science PBS and quantitative MQR requirements of the College of Arts and Sciences early in their college careers in order to be in a position to take additional science or engineering courses as outlined below.

Students intending to major in Science and Technology Studies should submit an application during their sophomore year. Juniors are considered on a case-by-case basis. The application includes (1) a one-page statement explaining the student's intellectual interests and why the major is consistent with the student's academic interests and goals; (2) a tentative plan of courses fulfilling S&TS requirements; and (3) an up-to-date transcript of work completed at Cornell University (and elsewhere, if applicable). Further information and application materials are available in 306 Rockefeller Hall (255-6047).

**Requirements**

S&TS majors must complete the following requirements:

(Note: all courses used to fulfill major requirements must be taken for a letter grade, which must be C- or higher.)

1. The core course (STS 2011)
2. Three additional 2000-level courses selected from the following list: STS 2021, 2051, 2061, 2331, 2501, 2811, 2821, 2851, 2861, 2871, 2921.
3. Additional S&TS courses to total 34 credit hours in the major. Four of these courses must be 3000 level or above and a minimum of two of these must be 4000 level or higher. STS 1101 and/or 1102 may be used to meet major requirements only if taken before joining the major or during your first two semesters in the major. Only one independent study (STS 3991) of no more than 4 credit hours may be taken to meet major requirements.
4. Science requirement: In addition to the science requirement of the College of Arts and Sciences, Science & Technology Studies majors are required to take an additional two courses in natural science or engineering (including computer science). Mathematics sufficient to provide background for the additional science requirement should be completed before undertaking that requirement. Choice of these courses should be made in consultation with the student's major advisor.

**The Honors Program**

The honors program is designed to provide independent research opportunities for academically talented S&TS majors. Students who enroll in the honors program are expected to do independent study and research, with faculty guidance, on issues in science and technology studies. Students who participate in the program should find the experience intellectually stimulating and rewarding whether or not they intend to pursue a research career. S&TS majors are considered for entry into the honors program at the end of the second semester of their junior year. To qualify for the S&TS honors program, students must have an overall Cornell cumulative grade point average (GPA) of at least 3.00 and a 3.30 cumulative GPA in

courses taken for the major. Additionally, the student must have formulated a research topic, and have found a project supervisor and a second faculty member willing to serve as the advisors; at least one of these must be a member of the S&TS department. More information on the honors program is available from the S&TS undergraduate office at 306 Rockefeller Hall (255-6047).

**The Biology and Society Major**

The Department of Science and Technology Studies also offers the Biology and Society major, which includes faculty from throughout the university. The Biology and Society major is designed for students who wish to combine the study of biology with exposure to perspectives from the social sciences and humanities. In addition to providing a foundation in biology, Biology and Society students obtain background in the social dimensions of modern biology and in the biological dimensions of contemporary social issues.

The Biology and Society major is offered to students enrolled in the College of Arts and Sciences, the College of Human Ecology, and the College of Agriculture and Life Sciences. The major is coordinated for students in all colleges through the Biology and Society office. Students can get information, specific course requirements, and application procedures for the major from the office in 306 Rockefeller Hall, 255-6047.

A full description of the Biology and Society major can be found on p. 498 of this catalog.

**The Minor in Science and Technology Studies**

S. Hilgartner, chair (304 Rockefeller Hall, 255-6043); K. Vogel (DUS); R. N. Boyd, P. R. Dear, R. Kline, C. Leuenberger, B. V. Lewenstein, M. Lynch, T. J. Pinch, A. G. Power, R. Prentice, S. Pritchard, J. V. Reppy, M. W. Rossiter, P. J. Sengers, S. Seth, Emeritus: W. R. Lynn, L. P. Williams. Adjunct faculty: R. W. Miller, H. Shue, Z. Warhaft

The minor in Science & Technology Studies (S&TS) is designed for students who wish to engage in a systematic, interdisciplinary exploration of the role of science and technology in modern societies. The minor is intended for students with varied academic interests and career goals. Majors in the natural sciences and engineering have an opportunity to explore the social, political, and ethical implications of their selected fields of specialization, while students majoring in the humanities and social sciences have a chance to study the processes, products, and impacts of science and technology from an S&TS perspective.

To satisfy the requirements for the S&TS minor, students must complete, with a letter grade of C- or above, a minimum of four courses selected from the course offerings listed for the major, excluding first-year writing seminars. The four courses must include STS 2011 and at least one course at the 3000 or 4000 level. No more than one course can be at the 1000 level. Interested students may obtain further information about courses and a list of course descriptions by contacting the S&TS undergraduate office, 306 Rockefeller Hall (255-6047).

## Graduate Field of Science & Technology Studies

S. Hilgartner, (chair), T. Pinch (DGS), R. Boyd, P. Dear, R. Kline, S. Langwick, B. Lewenstein, M. Lynch, T. Gillespie, T. Hinrichs, A. Power, R. Prentice, S. Pritchard, W. Provine, J. Reppy, M. Rossiter, P. Sengers, S. Seth, K. Vogel. Minor Member: C. Leuenberger.

Students may obtain further information about the field and course offerings by contacting the S&TS graduate field office, 306 Rockefeller Hall (255-3810).

## First-Year Writing Seminars

Consult the John S. Knight Institute web site for times, instructors, and descriptions: [www.arts.cornell.edu/Knight\\_institute/index.html](http://www.arts.cornell.edu/Knight_institute/index.html).

## Introductory Courses

### [STS 1101 Science and Technology in the Public Arena (SBA-AS)]

Fall. 3 credits. STS 1101 and 1102 may be taken separately or in any order. Recommended as introduction to field; not required and may not be used to fulfill a major requirement. Next offered 2011–2012. J. Reppy.

Introduction to public policy issues involving developments in science and technology. Studies such topics as secrecy and national security, the politics of expertise, public understanding of science, computers and privacy, and the management of risk. Applies concepts from the field of science and technology studies to analyze how issues are framed and public policy produced.]

### STS 1102 Histories of the Future (CA-AS)

Spring. 3 credits. Recommended as introduction to field; not required and may not be used to fulfill a major requirement. STS 1101 and 1102 may be taken separately or in any order. R. Prentice.

From *Frankenstein* to *The Matrix*, science fiction and film have depicted contemporary science, technology, and medicine for almost two centuries. This course introduces students to historical and social studies of science and technology using science fiction films and novels, as well as key readings in science and technology studies. What social questions can fictional accounts raise that factual ones can only anticipate? How have “intelligent machines” from Babbage’s Analytical Engine to Hal raised questions about what it means to be human? What can Marvel Comics teach us about changes in science and technology? When can robots be women and, in general, what roles did gender play in scientific, technological, and medical stories? How was the discovery that one could look inside the human body received? How do dreams and nightmares of the future emerge from the everyday work of scientific and technological research?

## Core Courses

### STS 2011 What Is Science? An Introduction to the Social Studies of Science and Technology (also SOC 2100) (CA-AS)

Spring. 3 credits; also offered as writing-intensive 4-credit option, by permission only, and limited to 15 students. K. Vogel.

Introduces some of the central ideas in the field of Science and Technology Studies (S&TS). As well as serving as an introduction

to students who plan to major in Biology and Society or in Science and Technology Studies, the course is aimed at students with backgrounds in either the sciences or the humanities who are challenged to think more critically about what we mean by science, what counts as scientific knowledge and why, and how science and technology intervene in the wider world. The course is a mixture of lecture, discussion, and other activities. The discussion sections are an integral part of the course and attendance is required. In addition, a series of written assignments throughout the semester and a take-home final during exam week compose the majority of the grade.

## S&TS Courses

### STS 2051 Ethical Issues in Health and Medicine (also BSOC 2051) (KCM-AS)

Fall. 4 credits. Limited to 150 students. S. Hilgartner.

For description, see BSOC 2051.

### STS 2061 Ethics and the Environment (also BSOC 2061, PHIL 2460) (KCM-AS)

Spring. 4 credits. S. Pritchard.

For description, see BSOC 2061.

### STS 2331 Agriculture, History, and Society: From Squanto to Biotechnology (HA-AS)

Fall. 3 credits. M. Rossiter.

Surveys the major themes in the development of agriculture and agribusiness in the United States in the 19th and 20th centuries. These include particular individuals (e.g., Liberty Hyde Bailey, Luther Burbank, G. W. Carver, Henry A. Wallace, and Norman Borlaug), the rise of government support and institutions (including U.S.D.A. and Cornell), noteworthy events (the dust bowl, World War II, and the environmental movement), and the achievements of the Green and “Gene” Revolutions.

### STS 2501 Technology in Society (also ECE/ENGRG/HIST 2500) (HA-AS)

Fall. 3 credits. R. Kline.

For description, see ENGRG 2500.

### [STS 2811 Science in Western Civilization: Medieval and Early-Modern Europe up to Isaac Newton (also HIST 2810) # (HA-AS)]

Fall. 4 credits. Next offered 2010–2011. P. Dear.]

### STS 2821 Science in Western Civilization: Newton to Darwin, Darwin to Einstein (also HIST 2820) # (HA-AS)

Spring. 4 credits. STS 2811 is *not* a prerequisite to 2821. S. Seth.

For description, see HIST 2820.

### STS 2851 Communication, Environment, Science, and Health (also COMM 2850)

Spring. 3 credits. B. Lewenstein.

For description, see COMM 2850.

### STS 2861 Science and Human Nature (also PHIL 2860) (KCM-AS)

Spring. 4 credits. R. Boyd.

For description, see PHIL 2860.

### STS 2871 Evolution (also BIOEE 2070, HIST 2870) (PBS)

Fall. 3 credits. W. Provine.

For description, see BIOEE 2070.

### STS 2921 Inventing an Information Society (also ECE/ENGRG 2980, HIST 2920) (HA-AS)

Spring. 3 credits. R. Kline.

For description, see ENGRG 2980.

### STS 3011 Life Sciences and Society (also BSOC 3011) (SBA-AS)

Fall. 4 credits. M. Lynch.

For description, see BSOC 3011.

### STS 3111 Sociology of Medicine (also SOC 3130) (SBA-AS)

Fall. 4 credits. Not open to freshmen.

C. Leuenberger.

This course provides an introduction to the ways in which medical practice, the medical profession, and medical technology are embedded in society and culture. We will ask how medicine is connected to various sociocultural factors such as gender, social class, race, and administrative cultures. We will examine the rise of medical sociology as a discipline, the professionalization of medicine, and processes of medicalization and demedicalization. We will look at alternative medical practices and how they differ from and converge with the dominant medical paradigm. We will focus on the rise of medical technology in clinical practice with a special emphasis on reproductive technologies. We will focus on the body as a site for medical knowledge, including the medicalization of sex differences, the effect of culture on nutrition and eating disorders such as obesity and anorexia nervosa. We will also read various classic and contemporary texts that speak to the illness experience and the culture of surgeons, hospitals, and patients and we will discuss various case studies in the social construction of physical and mental illness.

### STS 3181 Living in an Uncertain World: Science, Technology and Risk

Fall. 4 credits. S. Pritchard.

This course explores the history, sociology, and ethics of risk. In particular, we will focus on the complex and often ambiguous relationship between science, technology, and risk. A historical perspective shows how science and technology have generated risks while they have also played key roles in managing and solving those very risks. By examining several case studies, including 19th-century mining, the 1911 Triangle fire, nuclear science, the space shuttle disasters, asbestos litigation, Hurricane Katrina, and the contemporary financial crisis, we will consider how risk and ideas about risk have changed over time. By exploring different historical and cultural responses to risk, we will examine the socio-political dimensions of the definitions, perceptions, and management of risk both in the past and the present.

### [STS 3221 Lives of Scientists and Engineers (also FGSS 3221) (HA-AS)]

Spring. 4 credits. Next offered 2010–2011. M. Rossiter.

This course will explore the lives of a variety of scientists and engineers—American, international, men, women, and minorities—through readings of biographies, autobiographies, and other sources. The goal will be to examine the obstacles overcome, opportunities offered, and choices made; the reasons and rationalization given; and the uses made of idealized biographies in science education, requirement, myth-making, and national prestige. Weekly readings, discussion, and research paper required.]

**STS 3241 Environment and Society (also DSOC/SOC 3240) (SBA-AS)**

Spring. 3 credits. G. Gillespie.  
For description, see DSOC 3240.

**STS 3301 Making Modern Science (also HIST 3290) (HA-AS)**

Fall. 4 credits. S. Seth.  
Examines the history of the physical sciences in Europe and the United States from 1800 to the present. Students study such topics as the development of thermodynamics and electrostatics, the quantum and relativity theories, science during the world wars, and post-war "big science." As well as a history of ideas, the course emphasizes the broader historical contexts in which physical science has been produced, focusing on issues raised in relation to Romanticism, the first and second industrial revolutions, social statistics, train travel, and the military-industrial-scientific complex, among others. Reading for the course ranges from primary source material (original papers by Thomson, Helmholtz, Planck, and Einstein) to extracts from Mary Shelley's *Frankenstein* and Michael Frayn's *Copenhagen*.

**[STS 3311 Environmental Governance (also BSOC 3311, NTRES 3310) (CA-AS)]**

Spring. 3 credits. Next offered 2010-2011.  
S. Wolf.  
For description, see NTRES 3310.]

**STS 3431 Biotechnology and the Economy (also BSOC 3431)**

Fall. 4 credits. J. Reppy.  
In the three decades since Genentech was founded to exploit recombinant DNA technologies, the biotechnology industry has grown to be a multibillion-dollar industry, employing perhaps 200,000 workers (not to mention the trillions of microbial "workers" in some industrial applications). This course will survey the industry, with particular attention to biomedical applications. Topics will include the historical emergence of biotechnology as a separate industry in government statistics and popular discourse, the role of venture capital and small firms in industry growth, links to universities, intellectual property rights, and regulatory issues. The focus will be on the U.S. industry in the context of globalized economy. Readings include case studies, government reports, and background readings in innovation studies and emerging technologies.

**STS 3460 Anthropology of the Body (also ANTHR 3465/6465, STS 6460) @ (CA-AS)**

Fall. 4 credits. S. Langwick.  
For description, see ANTHR 3465.

**[STS 3491 Media Technologies (also COMM 3490, INFO 3490) (HA-AS)]**

Spring. 3 credits. Offered odd-numbered years; next offered 2010-2011. T. Gillespie.  
For description, see COMM 3490.]

**[STS 3521 Science Writing for the Mass Media (also COMM 3520)]**

Fall. 3 credits. *Students who take STS 3521 may not receive credit for COMM 2600, 2630, or 3520.* Next offered 2010-2011. B. Lewenstein.  
For description, see COMM 3520.]

**[STS 3551 Computers: From the 17th Century to the Dotcom Boom (also COMM 3550, INFO 3551) (HA-AS)]**

Fall. 4 credits. No technical knowledge of computer use is presumed or required. STS 3551 and 3561 can be taken separately or in any order. Next offered 2011-2012. Staff.  
How did computing technology, once useful only to technical specialists, come to colonize industry, academia, the military, and the home? This course will place computing technologies in social and historical context.]

**STS 3561 Computing Cultures (also COMM/VISST 3560, INFO 3561) (CA-AS)**

Spring. 4 credits. No technical knowledge of computer use presumed or required. STS 3551 and 3561 may be taken separately or in any order. R. Prentice.  
Computers are powerful tools for working, playing, thinking, and living. Laptops, PDAs, webcams, cell phones, and iPods are not just devices, they also provide narratives, metaphors, and ways of seeing the world. This course critically examines how computing technology and society shape each other and how this plays out in our everyday lives. Identifies how computers, networks, and information technologies reproduce, reinforce, and rework existing cultural trends, norms and values. Looks at the values embodied in the cultures of computing and consider alternative ways to imagine, build, and work with information technologies.

**STS 3601 Ethical Issues in Engineering Practice (also ENGRG 3600)**

Spring. 3 credits. Limited to juniors and seniors only. P. Doing.  
For description, see ENGRG 3600.

**STS 3811 Philosophy of Science: Knowledge and Objectivity (also PHIL 3810) (KCM-AS)**

Fall. 4 credits. R. Boyd.  
For description, see PHIL 3810.

**[STS 3911 Science in the American Polity, 1960 to Now (also AMST 3911, GOVT 3091) (SBA-AS)]**

Spring. 4 credits. Next offered 2011-2012. S. Hilgartner.  
This course reviews the changing political relations between science, technology, and the state in America from 1960 to the present. It focuses on policy choices involving science and technology in different institutional settings, such as Congress, the court system, and regulatory agencies. The tension between the concepts of science as an autonomous republic and as just another interest group is a central theme.]

**STS 4001 Components and Systems: Engineering in a Social Context (also MAE 4000/4010)**

Fall. 3 credits. Offered alternate years. Z. Warhaft.  
For description, see MAE 4000.

**[STS 4021 Bodies in Medicine, Science, and Technology (also BSOC/FGSS 4021) (CA-AS)]**

Spring. 4 credits. Limited to 15 students. Next offered 2010-2011. R. Prentice.  
Every day we are barraged with cultural messages telling us to eat better, get more exercise, stop smoking, practice safe sex. These messages make us insecure about our bodies: Am I thin enough, ripped enough, sexy enough? They are also contradictory: Fish makes you smarter; mercury in fish makes

you sick. Many of these messages use the language of science and medicine: There are obesity "epidemics" and chocolate "addictions." Our bodies are described and treated like machines: transplant surgeons talk about our "spare parts"; computer programmers describe their brains as "wetware." Our sense of our bodies may feel improvised, created on the fly from a collage of scientific, medical, cultural, and advertising snapshots. This course draws from literature in science and technology studies, anthropology, and feminist and gender studies to examine how bodies emerge from the shifting lessons of science, technology, and medicine, as well as how cultural and political concerns express themselves in and through bodies.]

**STS 4071 Law, Science, and Public Values (also BSOC 4071) (SBA-AS)**

Spring. 4 credits. M. Lynch.  
Examines problems that arise at the interface of law and science. These problems include the regulation of novel technology, the role of technical expertise in public decision-making, and the control over scientific research. The first part of the course covers basic perspectives in science and technology studies (S&TS) and how they relate to legal decisions and processes. The second part covers a series of examples and legal cases on the role of expert judgments in legal and legislative settings, intellectual property considerations in science and medicine, and legal and political oversight of scientific research. The final part examines social processes and practices in legal institutions, and relates these to specific cases of scientific and technological controversy. Lectures and assignments are designed to acquaint students with relevant ideas about the relationship between legal, political, and scientific institutions, and to encourage independent thought and research about specific problems covered in the course.

**[STS 4111 Knowledge, Technology, and Property (SBA-AS)]**

Spring. 4 credits. Prerequisite: one course in science and technology studies. Next offered 2011-2012. S. Hilgartner.  
This course examines the ownership of knowledge and technology, exploring fundamental tensions that intellectual property systems express and incompletely reconcile. Perspectives from science and technology studies, sociology, law, and economics inform the course. Case studies explore the construction of property in contexts ranging from the early history of copyright to the ownership of life forms, airwaves, algorithms, artistic content, electronic databases, and the personal identities of celebrities.]

**[STS 4120 The Scientific Revolution in Early-Modern Europe (also HIST 4120) # (HA-AS)]**

Spring. 4 credits. Next offered 2011-2012. P. Dear.]

**[STS 4121 Science, Technology, and Culture (also COML 4100) (CA-AS)]**

Fall. 4 credits. Next offered 2010-2011. A. Banerjee.]

**STS 4131 Comparative Environmental History (also BSOC 4131) (HA-AS)**

Fall. 4 credits. S. Pritchard.  
Environmental history explores the historical relationships that have shaped human societies and the natural world. Four approaches will guide our study of environmental history: (1) The reciprocal

relationship between people and the environment, including the impact of human activities, such as subsistence, agriculture, transportation, industry, and city-building on the environment, and the influence of geography, natural resources, and the environment on human society. (2) The role of race, class, and gender in shaping the relationship between peoples and the environment. (3) The social construction of environmental knowledge, including ideas such as conservation versus preservation, wilderness and national parks, and natural resources and sustainable development. (4) The role of the state, imperialism, and foreign policy in shaping the relationship between nature and society across national boundaries. This course will take a global approach, allowing us to consider how world environmental history can inform the study of U.S. environmental history.

**STS 4221 New York Women (also FGSS 4220, HIST 4451) (HA-AS)**

Fall. 4 credits. Limited to 15 students. M. Rossiter.

Over the centuries New York State has been the site of activity for a great many women of consequence. This course is a one-semester survey of the past and present activities and contributions of rural and urban women in a variety of fields of interest to Cornell students politics, medicine, science, the law, education, business (including hotels), entertainment, communications, government, labor, religion, athletics, the arts and other areas. Weekly readings and discussion and a paper, possibly using local or university archives.

**STS 4231 Gender and Technology (also BSOC/FGSS/HIST 4231) (HA-AS)**

Spring. 4 credits. S. Pritchard.

Why are some technologies such as cars and computers associated with men and masculinity? How did vacuums and sewing machines become gendered female? How do technological artifacts and systems constitute, mediate, and reproduce gender identities and gender relations? How do technologies uphold gender hierarchies and thus social inequalities? This class explores the relationship between gender and technology in comparative cultural, social, and historical perspective. Specific themes include: meanings, camouflage, and display; socializations; industrialization, labor, and work; technologies of war; the postwar workplace; sex and sexuality; and reproductive technologies. Most course materials focus on western Europe and the United States since the late 18th century, but the issues raised in this class will prepare students to think about the relationship between gender and technology in other contexts including our own.

**[STS 4291 Politics of Science (also BSOC 4291, GOVT 4293) (SBA-AS)**

Fall. 4 credits. Next offered 2010–2011. R. Herring.]

**STS 4311 From Surgery to Simulation (also BSOC 4311) (SBA-AS)**

Fall. 4 credits. R. Prentice.

A cliché among medical professionals says, "If you have a hammer, every problem looks like a nail." In other words, treatment decisions often are dictated by available technologies. This course looks at medical technologies from dissection to X-rays to anti-depressants and the ways they shape how medical professionals look at and practice upon the human body. Takes a broad view of

technology, encompassing systems of practice that shape how work is conducted and the body is understood, as well as specific machines and treatments with specific uses. Considers how these technologies often are not only treatments for individual patients but also metaphors for larger cultural questions.

**STS 4331 International History of Science # (HA-AS)**

Spring. 4 credits. M. Rossiter.

Survey of the major scientific events and institutions in several foreign nations, including developing countries. Covers the period 1660 to the present and gives some attention to who in each country becomes a scientist, who rises to the top, and who emigrates. Weekly readings and a research paper.

**STS 4361 Link, Network, Nexus (also BSOC 4361, COML 4115, FREN/SHUM 4936, GOVT 4748)**

Spring. 4 credits. B. Massumi.

For description, see SHUM 4936.

**[STS 4421 The Sociology of Science (also BSOC 4421, SOC 4420) (SBA-AS)**

Spring. 4 credits. Next offered 2010–2011. T. Pinch.

A view of science less as an autonomous activity than as a social institution. Discusses such issues as controversies in science, analysis of scientific text, gender, and the social shaping of scientific knowledge.]

**STS 4441 Historical Issues of Gender and Science (also FGSS 4440) (CA-AS)**

Spring. 4 credits. Not open to freshmen. M. Rossiter.

A one-semester survey of women's role in science and engineering from antiquity to the 1980s, with special emphasis on the United States in the 20th century. Readings include biographies and autobiographies of prominent women scientists, educational writings and other primary sources, and recent historical and sociological studies. By the end of the semester, students attain a broad view of the problems that have faced women entering science and those that still remain.

**STS 4471 Seminar in the History of Biology (also BIOEE 4670, BSOC 4471, HIST 4150) (PBS)**

Summer or fall. 4 credits. Limited to 18 students. S–U or letter grades. W. Provine.

For description, see BIOEE 4670.

**STS 4531 Knowledge and Society (also SOC 4530) (CA-AS)**

Spring. 4 credits. Limited to 15 students. C. Leuenberger.

Focuses on the historical evolution of the sociology of knowledge as a theoretical paradigm and an empirical research field. Examines the phenomenological origins of the sociology of knowledge and many of its central texts. Studies how it has been applied to such areas as personhood, interaction, religion, identity, and the emotions. Also considers epistemological questions that arise, and cover various theoretical and empirical approaches that have been influenced by the sociology of knowledge such as ethnomethodology, conversation analysis, and the sociology of science and technology.

**[STS 4581 Intelligibility in Science (also HIST 4581) (HA-AS)**

Spring. 4 credits. Next offered 2012–2013. P. Dear.]

**STS 4661 Public Communication of Science and Technology (also COMM 4660/6660, STS 6661)**

Spring. 3 credits. Limited to 15 students. B. Lewenstein.

For description, see COMM 4660.

**[STS 4711 The Dark Side of Biology: Biological Weapons, Bioterrorism, and Biocriminality (also BSOC 4711) (SBA-AS)**

Fall. 4 credits. Next offered 2010–2011. K. Vogel.

For description, see BSOC 4711.]

**STS 4751 Science, Race, and Colonialism (also HIST 4751) (HA-AS)**

Spring. 4 credits. S. Seth.

This course examines the social construction and utilization of scientific conceptions of race in the West. We begin with the existence (or not) of conceptions of biological race in the early-modern period, focusing on early voyages of discovery and so-called "first encounters" between the peoples of the Old and New Worlds. In the second part of the course we will look at early enunciations of racial thought in the late 18th century and at the problems of classification that these raised, before examining the roots of "Scientific Racism." Part three looks at Darwin, Social Darwinism, and eugenics movements in different national contexts, concluding with a study of Nazi science and the subsequent trials of doctors at Nuremberg. The last part of the course examines recent and contemporary applications of racial thinking, including the debate over the origin of AIDS, race and IQ, and the question of whether doctors should make use of race as a category when researching and prescribing new treatments.

**STS 4811 Philosophy of Science (also PHIL 4810, STS 6811) (KCM-AS)**

Spring. 4 credits. R. Boyd and A. Chignell.

For description, see PHIL 4810.

**[STS 4831 The Military and New Technology (also GOVT 4837) (SBA-AS)**

Fall. 4 credits. Next offered 2011–2012. Staff.

Military organizations are seen paradoxically as both inflexible, hide-bound institutions and avid proponents of new technology. This course examines changes over time in the attitude of the military toward new technology and analyzes competing explanations for these changes. Have advances in technology altered the traditional notions of how battles are fought and won? Have military needs been a driver of new technology? Special attention will be given to the so-called "Revolution in Military Affairs" and the implications of the rise in asymmetric warfare for future developments in military technology.]

**STS 4911 Vitality and Power in China (also BSOC 4911, HIST/SHUM 4931)**

Spring. 4 credits. T. Hinrichs.

For description, see SHUM 4931.

**STS 4921 The History of Reason (also BSOC 4921, HIST/SHUM 4932)**

Spring. 4 credits. P. Dear.

For description, see SHUM 4932.

**STS 4951 Social Studies of the Human Sciences (CA-AS)**

Fall. 4 credits. C. Leuenberger.

Explores how the human and social sciences have provided the knowledge and categories we use to make sense of people and their

behavior. Looking across a range of disciplines—including sociology, psychology, psychiatry, and economics—the course examines how human beings have become objects of scientific investigation. Discusses the rise of the human sciences and their role in politics, culture, and society.

**[STS 4961 Medicine and Healing in China (also ASIAN 4469, BSOC/HIST 4961) @ # (HA-AS)]**

Spring. 4 credit. Next offered 2010–2011. T. Hinrichs.]

### Independent Study

**STS 3991 Undergraduate Independent Study**

Fall, spring. 1–4 credits. No more than 8 credit hours total of independent study (not including honors) can count toward the S&TS major. Prerequisite: permission of instructor.

More information and applications available in 306 Rockefeller Hall.

**STS 4991/4992 Honors Project**

Fall and spring (yearlong)\*. Prerequisite: senior S&TS students by permission of department; overall Cornell cumulative GPA of 3.00 and 3.30 cumulative GPA in courses taken for major. Apply in 306 Rockefeller Hall.

Students admitted to the honors program are required to complete two semesters of honors project research and to write an honors thesis. The project must include substantial research, and the completed work should be of wider scope and greater originality than is normal for an upper-level course. The student must find a project supervisor and a second faculty member willing to serve as faculty reader; at least one of these must be a member of the S&TS department.

\*Students must register for 4 credits each semester, for a total of 8 credits. After the fall semester, students will receive a letter grade of "R" for the first semester with a letter grade for both semesters submitted at the end of the second semester whether or not they complete a thesis, and whether or not they are recommended for honors. Minimally, an honors thesis outline and bibliography should be completed during the first semester. In consultation with the advisors, the director of undergraduate studies will evaluate whether the student should continue working on an honors project. Students should note that these courses are to be taken in addition to those courses that meet the regular major requirements. If students do not complete the second semester of the honors project, they must change the first semester to independent study to clear the "R" and receive a grade. Otherwise, the "R" will remain on their record and prevent them from graduating.

### Summer Course

**STS 1451 Body, Mind, and Health: Perspectives for Future Medical Professionals (also BSOC 1451) # (CA-AS)**

Summer. 3 credits. Open only to sophomore, junior, and senior high school students. M. Hurst.

This course surveys heated medical controversies from the Colonial Period to the present. Students learn about important debates over inoculation in the 18th century, sanity and insanity in the 19th century, and

venerable disease in the 20th century. Lectures and readings also map the changing experience and authority of men and women engaged in caring and curing. Because health and disease are culturally contingent, course materials explore the history of specific diseases including cholera and tuberculosis, syphilis and AIDS, anorexia nervosa and chronic fatigue syndrome. We consider why it is that certain diseases become more prevalent in one time period than another, and how gender, race, ethnicity, and region shape the experience of disease in America, both in the past and present. Finally, we also investigate some of the scientific, social, and ethical challenges facing medical and mental health professionals in the 21st century.

### Graduate Seminars

**[STS 6271 Making People Through Expert Knowledge]**

Spring. 4 credits. Next offered 2011–2012. C. Leuenberger.

This seminar explores how the human and social sciences have provided the knowledge and categories we use to make sense of human beings and their behavior. Looking across a range of disciplines—including sociology, psychiatry, psychology, psychoanalysis, anthropology, and economics—we will look at how human beings have become objects of scientific investigation. We will focus on how culture, politics, and the professional environment impact the human sciences and how the use of rhetoric constitutes academic discourse. We will also focus on the social scientific construction of selves, sex, gender, and race.]

**[STS 6281 Self and Society]**

Fall. 4 credits. Next offered 2010–2011. C. Leuenberger.

How has the self become a political, scientific, and cultural project caught up in the ideological battles of modern times? What roles do cultural institutions, politics and science play in making human beings visible, understandable, and treatable? Students in this course will read and discuss texts at the intersection of sociology, cultural studies, history of the human and behavioral sciences, and science and technology studies that treat the self as a social construction. The course focuses on how culture, politics, science, as well as bureaucratic and economic imperatives help shape modern and postmodern conceptions of the self.]

**STS 6301 Social Theory Information**

Fall. 4 credits. R. Prentice.

Sociologist C. Wright Mills challenged his readers to develop their "sociological imagination" to understand the social and historical forces at work in seemingly individual events, such as the receipt of a pink slip, a draft card, or a drug prescription. Within science and technology studies, scholars have documented how social issues can become scientific, technological, or medical, often appearing to leave the social realm naturalized, normalized, or pathologized. This course introduces graduate students to classic texts and concepts in social theory with a focus on how scholars apply such theories to empirical research. It will consider major thinkers and schools of social thought, such as Marx, Weber, Durkheim, Mannheim, Foucault, and the Frankfurt School. It will also consider how a nuanced interplay of theory and empirical data can bring

critically important insights to both theoretical and empirical understandings of the world. The course is relevant for students in sociology, history, and anthropology who are interested in social theory.

**STS 6311 Qualitative Research Methods for Studying Science (also SOC 6310)**

Spring. 4 credits. C. Leuenberger.

Much has been learned about the nature of science by sociologists and anthropologists donning lab coats and studying scientists in action. This course looks at the methods used in this new wave of science studies. Examines what can be learned by interviewing scientists, from videos, and from detailed examinations of scientific texts. Students gain hands-on experience by conducting a mini-project in which they investigate some aspect of scientific culture.

**[STS 6321 Inside Technology: The Social Construction of Technology (also SOC 6320)]**

Spring. 4 credits. Next offered 2010–2011. T. Pinch.

Rather than analyze the social impact of technology upon society, this course investigates how society gets inside technology. In other words, is it possible that the very design of technologies embody assumptions about the nature of society? And, if so, are alternative technologies, which embody different assumptions about society, possible? Do engineers have implicit theories about society? Is technology gendered? How can we understand the interaction of society and technology? Throughout the course the arguments are illustrated by detailed examinations of particular technologies, such as the ballistic missile, the bicycle, the electric car, and the refrigerator.]

**[STS 6341 Information Technology in Sociocultural Context]**

Spring. 4 credits. Next offered 2010–2011. P. Sengers.

Analyzes information technology using historical, qualitative, and critical approaches. Discusses questions such as: In what ways is information technology—often portrayed as radically new—actually deeply historical? How do information technologies represent and intervene in debates and struggles among people, communities, and institutions? How is the design of information technology tools entangled in the realms of law, politics, and commerce? In what ways are the social consequences of information technologies produced as much by the claims we make about the technologies as about the raw functionality of the tools themselves? This course investigates these issues through the lenses of long-standing debates and current controversies.]

**STS 6401 Science, Technology, Gender: Historical Issues (also FGSS 6400, HIST 6410)**

Fall. 4 credits. S. Seth.

This course explores five, often interrelated, aspects of the literature on gender, science, and technology: (1) The historical participation of women (and men) in scientific work; (2) the embodiment of scientific, medical, and technical knowledge; (3) the scientific construction of sexuality; (4) the gendering of technological systems and artifacts; and (5) feminist critiques of scientific knowledge. We begin with an analysis of reason, gender, and sexuality in the classical and late-antique western world, before moving on to an

examination of the origins of modern western science in the scientific revolution, considering the claim that "science," by its very nature, is an androcentric enterprise. The rise of scientific and medical disciplines and professions in the 19th century will provide a focus for discussions of the systematic exclusion of women from the production of scientific knowledge at precisely the point that women's bodies become the object of intensive scientific study. Drawing on a range of material, the course considers the construction of homosexual and intersexual individuals in scientific discourse. In later weeks, we will discuss so-called "post-modernist" critiques of science, and will debate the possibilities for "feminist science."

**STS 6460 Anthropology of the Body (also ANTHR 3465/6465, STS 3460)**

Fall. 4 credits. S. Langwick.  
For description, see ANTHR 3465.

**STS 6661 Public Communication of Science and Technology (also COMM 6660/4660, STS 4661)**

Spring. 4 credits. B. Lewenstein.  
For description, see COMM 4660.

**[STS 6801 Historical Approaches to Science (also HIST 6800)]**

Fall. 4 credits. Prerequisite: graduate standing. Next offered 2010–2011. P. Dear. Examines philosophical, sociological, and methodological dimensions of recent historiography of science.]

**STS 6811 Philosophy of Science (also PHIL 4810, STS 4811)**

Spring. 4 credits. R. Boyd.  
For description, see PHIL 6810.

**[STS 7001 Special Topic 1: Science Studies and the Politics of Science]**

Fall. 4 credits. Prerequisites: STS 7111 or permission of instructor. Next offered 2010–2011. M. Rossiter.

Theoretical developments in science and technology studies have called attention to the contingent and socially embedded character of both knowledge claims and technological systems. Drawing on literature from several disciplines, this seminar explores the consequences of these findings for social and political studies of science. Issues and problems considered include trust and skepticism, political and legal agency, reflexive institutions, relativism and social action, science and norms, and the co-production of knowledge and social order.]

**STS 7003 Special Topic 3: Issues in the Social and Cultural History of Technology**

Spring. 4 credits. R. Kline.  
This seminar focuses on different issues in the social and cultural history of technology each semester. Typical issues include Gender and Technology, Rethinking Technological Determinism, Was there an Information Revolution?, Consumerism, and the Military and Technology in the United States. Students read and discuss exemplary books and articles on a topic for the first half of the course, then give presentations on their research papers.

**STS 7111 Introduction to Science and Technology Studies (also HIST 7110)**

Fall. 4 credits. M. Lynch and K. Vogel.  
Provides students with a foundation in the field of science and technology studies. Using classic works as well as contemporary

exemplars, seminar participants chart the terrain of this new field. Topics for discussion include, but are not limited to: historiography of science and technology and their relation to social studies of science and technology; laboratory studies; intellectual property; science and the state; the role of instruments; fieldwork; politics and technical knowledge; philosophy of science; sociological studies of science and technology; and popularization.

**Independent Study**

**STS 6991 Graduate Independent Study**

Fall or spring. 2–4 credits. Permission of department required.  
Applications and information are available in 306 Rockefeller Hall.

**SCIENCE OF EARTH SYSTEMS**

See "Department of Earth and Atmospheric Sciences."

**SERBO-CROATIAN**

See "Department of Russian."

**SINHALA (SINHALESE)**

See "Department of Asian Studies."

**SOCIETY FOR THE HUMANITIES**

Timothy Murray, Director

**Fellows for 2009–2010**

Timothy Campbell

Seeta Chaganti

Peter Dear

Keller Easterling

María Fernández

TJ Hinrichs

Mary Jacobus

Ruth Mas

Brian Massumi

Prita Sandy Meier

Martha Schoolman

Shu-Ling Stephanie Tsai

The society annually awards fellowships for research in the humanities. The fellows offer, in line with their research, seminars intended to be exploratory or interdisciplinary. These seminars are open to graduate students and suitably qualified undergraduates. The theme for 2009–2010 is "Networks/Mobilities."

**SHUM 4821 Mobility and Invention (also ARTH/VISST 4821)**

Fall. 4 credits. Limited to 15 students.  
M. Fernández.

After 1940, numerous artists and intellectuals from various parts of the world emigrated or resided outside of their home countries for extended periods. Especially in Europe and the United States, immigrants significantly contributed to the formation of new fields of

knowledge and practice. While the migrant has been discussed at length in light of theories of hybridity, resistance, and cosmopolitanism, scholars have paid little attention to the migrant as inventor or creator. Are there conditions specific to the experience of migration that foster the generation and actualization of new ideas? Are theories of cosmopolitanism and translation sufficient to theorize immigrants' creativity? This seminar will function as a transdisciplinary laboratory for the exploration of these questions. Students from diverse fields and schools are welcomed.

**SHUM 4822 Life as We Know It: Readings in the Biopolitical Paradigm (also COML 4065, ITAL 4822)**

Fall. 4 credits. Limited to 15 students.  
T. Campbell.

In this seminar we will be reading some of the most important philosophical contributions to what Giorgio Agamben has called the biopolitical paradigm, that is the increasingly intense ways in which biology and politics have come to be superimposed over one another across the last 30 years. After an initial foray into the writings of Hannah Arendt on life and politics, we turn to Michel Foucault and his seminars from the 1970s where the terms, biopolitics and biopower, are most forcefully introduced. In the remainder of the semester we will trace how iterations of the term in Foucault square with more recent philosophical reflections, most of which originate in Italy (Agamben, Virno, Negri). Finally, we'll turn to Roberto Esposito's deconstruction of the biopolitical paradigm.

**SHUM 4823 Secular Disaffections: On Islam and the Politics of Emotion (also COML 4066, NES 4923, RELST 4823)**

Fall. 4 credits. Limited to 15 students.  
R. Mas.

This course takes as its focus the constitution of Islam by normative discourses of secular modernity in order to think about the categories of "religion" and "the secular." Special attention will be placed on the politics of secular liberal governance and the impacts that these have on the constitution of Muslim subjects, their bodies, and affects in the secular public sphere. We will examine the relationship of sentiments, feelings, emotions, and affect to the structures of force associated with secular models of politics that purport to banish religion from their sphere. Texts will include works by Talal Asad, Charles Hirschkind, Michel Foucault, Saba Mahmood, Brian Massumi, Jean-Luc Nancy, Jacques Rancière, Ann Stoler, and others.

**SHUM 4824 Medieval Translation in Motion (also DANCE 4384, ENGL 4072, FREN 4824)**

Fall. 4 credits. Limited to 15 students.  
S. Chaganti.

This seminar will use movement studies to explore medieval traditions of translation. By foregrounding the role of movement in English and French medieval texts, the class will investigate how we might understand translation in terms of spatial as well as textual materiality. The syllabus will combine literary readings with historical and theoretical foundations. It will include classic studies of medieval translation theory; more recent work examining translation and cultural movement; and critical theories of space, translation, and motion. In addition to providing medievalist

students with a new perspective on some important texts, the course also offers nonmedievalists a critically inflected view of early literary self-reflection on translation.

**SHUM 4825 African Port Cities: Empire Building at the Crossroads (also ARTH/VISST 4825, ASRC 4607)**

Fall. 4 credits. Limited to 15 students.  
P. Meier.

The coastal cities of the African continent have long been nodes of intercultural contact and diaspora. In such fluid borderlands, urban space and the built environment are a particularly fraught terrain, where boundaries of cultural belonging and identity are constantly being reworked. We will focus on the "Age of Empire" in order to consider Africa's multiple positions in the global market and diverse experiences of imperial and colonial aggression. This seminar therefore will examine key questions regarding how we conceive of port cities as "networked" sites. To this end we will seek to elucidate how the heterogeneous societies of coastal Africa transformed, fragmented, and reconstituted diverse material sites (including architecture, public space, sculpture, and the body) in order to assert local ways of being.

**SHUM 4826 Extrastatecraft (also ARCH 4408, GOVT 4678, VISST 4826)**

Fall. 4 credits. Limited to 15 students.  
K. Easterling.

This seminar researches global infrastructures—the substrate of networks, subroutines, management styles, and standards that act as a medium of transnational polity. The material will examine how socio-technical networks of trade, communication, tourism, labor, transportation, energy, and finance have been theorized. From a number of fields including studies of organization, the material will assemble a relational understanding of the political agency or disposition inherent in these networks. The course will also consider techniques of dissensus alternative to the activist apparatus customarily assembled to meet this political reality.

**SHUM 4931 Vitality and Power in China (also ASIAN 4429, BSOC/STS 4911, HIST/RELS 4931)**

Spring. 4 credits. Limited to 15 students.  
T. J. Hinrichs.

Chinese discourses have long linked the circulation of cosmic energies, political power, and bodily vitalities. In these models political order, spiritual cultivation, and health are achieved and enhanced through harmonizing these flows across the levels of Heaven-and-Earth, state, and humankind. It is when these movements are blocked or out of synchrony that we find disordered climates, societies, and illness. In this course, we will examine the historical emergence and development of these models of politically resonant persons and bodily centered politics, reading across primary texts in translation from these otherwise often separated fields. For alternate frameworks of analysis as well as for comparative perspectives, we will also examine theories of power and embodiment from other cultures, including recent scholarship in anthropology and critical theory.

**SHUM 4932 The History of Reason (also BSOC/STS 4921, HIST 4932)**

Spring. 4 credits. Limited to 15 students.  
P. Dear.

This course will examine ways in which "reason" was understood, deployed, and contested in European thought and practice from the early-modern period through to the 20th century. We will read primary sources that theorize or employ notions of "reason" (Descartes, Hobbes, Newton, Hume, Kant, etc.). Theoretical controversy over the foundations of "reason" in political economy as well as in formal logic in the 19th century will also be studied, to counterpoint its practical uses in early anthropological work from the late 19th and 20th centuries on the notion of a "Great Divide" between western and non-western cultures.

**SHUM 4933 Abolitionist Circuits (also ASRC/HIST 4933, ENGL 4073)**

Spring. 4 credits. Limited to 15 students.  
M. Schoolman.

An interdisciplinary seminar drawing on literary, historical, and geographical approaches to consider the roles of both physical transit and the geographic imaginary in 19th-century antislavery writing in English. Topics discussed will likely include the cross-border community of black activists living around the Great Lakes, the persistence of emigrationism throughout the antebellum period, abolitionist travel literature, and the historical existence and cultural deployment of the maroon communities in the Caribbean and the southern U.S. Primary texts will include works by William Wells Brown, Mary Ann Shadd Cary, Martin Delany, Ralph Waldo Emerson, Joseph John Gurney, Herman Melville, James Redpath, Harriet Beecher Stowe, and Samuel Ringgold Ward, as well as the unique resources available through Cornell's Samuel Joseph May Collection of abolitionist pamphlets.

**SHUM 4934 Art Writing: Tracing the Visible (also ARTH/VISST 4934, ENGL 4074)**

Spring. 4 credits. Limited to 15 students.  
M. Jacobus.

"Art Writing" will take a psychoanalytic, phenomenological, and philosophic lens to visual art and writing about it. Seminars will cluster around looking, knowing, facing, fearing, feeling, and writing, as represented in both theory and the visual arts, including video-art and photography. We will read critics such as T. J. Clark and Mieke Bal alongside theorists such as Benjamin, Derrida, and Barthes. Case studies will focus on selected artists who have prompted rereadings or reinterpretations of the visual in their practice, including Richter, Viola, and Twombly. This course will be of interest to students of literature and art who also want to read visual culture and theory.

**SHUM 4935 Subjectivation as Mode of Production—Zola's Department Store (also FREN 4935)**

Spring. 4 credits. Limited to 15 students.  
S. Tsai.

Subjectivation as mode of production, a conceptual device developed by Zola and further elaborated into the critique of the modernity by Foucault and Deleuze, evokes the genealogy of ethics and the production as a process of "becoming condition." Based on Emile Zola's novel *Au Bonheur des Dames* (1883), we will inquire into the production of subjectivity, or rather, the mode of existence, in the reign of the Second Empire in France.

**SHUM 4936 Link, Network, Nexus (also BSOC/STS 4361, COML 4115, FREN 4936, GOVT 4748)**

Spring. 4 credits. Limited to 15 students.  
B. Massumi.

This course will consider a related constellation of philosophical conceptions of locality and globality, connection and continuity, which challenge common assumptions underlying present-day notions of the network. The philosophical paradigms to be examined include the concepts of the "nexus" and "extensive continuum" (A. N. Whitehead), "nonlocal linkage" and "transspatiality" (Raymond Ruyer), "intensity" and "multiplicity" (Bergson), "reticulation" (Gilbert Simondon), and "smooth space" (Deleuze/Guattari). These concepts will be deployed and their implications explored through a consideration of current issues, such as the military doctrine of "network-centric warfare" and network-oriented social-movement politics.

## SOCIOLOGY

K. Weeden, chair (322 Uris Hall, 255-3820),  
L. Auf der Heide, M. Berezin, M. Brashears,  
B. Cornwell, D. Harris, D. Heckathorn,  
E. Hirsh, E. Lawler, M. Macy, S. Morgan,  
V. Nee, D. Strang, R. Swedberg, S. Tarrow,  
S. Van Morgan, E. Wethington, E. York  
Cornwell. Emeritus: S. Caldwell, B. C. Rosen

Sociology is the study of social life, social change, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies, and how people interact within these contexts. Since all human behavior is social, the subject matter of sociology ranges from the intimate family to the hostile mob; from organized crime to religious cults; from the divisions of race, gender, and social class to the shared beliefs of a common culture; and from the sociology of work to the sociology of sports. In fact, few fields have such broad scope and relevance for research, theory, and application of knowledge.

Sociology provides many distinctive perspectives on the world, generating new ideas and critiquing the old. The field also offers a range of research techniques that can be applied to virtually any aspect of social life: street crime and delinquency, corporate downsizing, how people express emotions, welfare or education reform, how families differ and flourish, or problems of peace and war. Because sociology addresses the most challenging issues of our time, it is a rapidly expanding field whose potential is increasingly tapped by those who craft policies and create programs.

## Requirements

In addition to the academic requirements established by the College of Arts and Sciences, students must also fulfill requirements for the Sociology major. Ten courses are required in the sociology major. All courses toward the major must be taken for a letter grade, and students must earn a C- or higher in each course. The courses required for the major are divided into the following categories:

- SOC 1101 Introduction to Sociology
- SOC 3750 Classical Theory

- SOC 3010 Evaluating Statistical Evidence
- seven additional (i.e., elective) courses in sociology

### The Honors Program

Honors in sociology are awarded for excellence in the major, which includes overall GPA and completion of an honors thesis. In addition to the regular requirements of the major, candidates for honors must maintain a cumulative GPA of at least a A– in all sociology classes, complete SOC 4950 and 4960 (in the senior year), and write an honors thesis.

Students are awarded either honors (*cum laude*), high honors (*magna cum laude*), or highest honors (*summa cum laude*) in the program based on the honors advisors' evaluation of the level and the quality of the work completed towards the honors thesis and the quality of the course work. The honors distinction will be noted on the student's official transcript and it will also be indicated on the student's diploma.

Complete information on the major can be found on the department's undergraduate program web page: [www.soc.cornell.edu/undergrad](http://www.soc.cornell.edu/undergrad). In addition to regularly updated course lists, the web page provides an overview of the discipline of sociology, procedures for declaring the major and applying to the honors program, and strategies for locating research opportunities. The main department web site, [www.soc.cornell.edu](http://www.soc.cornell.edu), provides an overview of the department's faculty members, their research, and the department's affiliated research centers.

### Introductory Courses

#### SOC 1101 Introduction to Sociology (SBA-AS)

Fall, spring. 3 credits. *Students may not receive credit for both SOC 1101 and DSOC 1101.* B. Cornwell.

This course introduces students to sociological perspectives and methodologies. We will begin by considering sociological perspectives that focus on macro-level spheres of society (e.g., the economy, polity) and sweeping societal changes that have occurred within them over the past couple of centuries. The remaining bulk of the course introduces alternatives to these macro-oriented models of society. First, we will cover arguments that address the causes and consequences of individuals' integration into and contributions to society, and attempt to answer such questions as: Why do people follow seemingly irrational social norms? We will then complicate matters by considering explanations that assume that there is some measure of individual rationality behind individuals' behavior. Finally, we will consider how larger social forms, especially social networks, emerge through both rational and nonrational kinds of social action.

#### SOC 1104 Race and Ethnicity (SBA-AS)

Fall. 3 credits. L. Auf der Heide.

This course explores race and ethnicity from a sociological viewpoint. Topics will include, but aren't limited to: the social construction of race and ethnicity in the United States over time; historical and contemporary racism, prejudice, and discrimination; the relationships between race/ethnicity and educational achievement/attainment, occupational prestige, income, wealth, and health; racial and ethnic

identity; and current national debates regarding race/ethnicity, such as affirmative action and immigration. Throughout the course, we will address these issues in light of contemporary and classical sociological theories.

#### [SOC 1105 Introduction to Economic Sociology (SBA-AS)

Fall. 3 credits. Next offered 2010–2011. V. Nee.

For description, see department.]

#### [SOC 1150 Utopia in Theory and Practice (SBA-AS)

Spring. 3 credits. Next offered 2010–2011. D. Strang.

This course discusses the literary utopias of Moore, Morris, and Bellamy, and the dystopias of Huxley, Orwell, and Zamiatin. Also examines real social experiments.]

### General Education Courses

#### SOC 2070 Problems in Contemporary Society (also DSOC 2070) (SBA-AS)

Fall. 4 credits. M. de Santos.

Examines contemporary social problems, with a focus on their sources in the organization of society. Modern societies are based on three fundamental types of institutions—social norms, hierarchies, and markets. Each is subject to distinctive types of failures resulting in problems that include poverty, prejudice and discrimination, intolerance and hate, alcohol and drug abuse, physical and mental illness, crime and delinquency, and urban problems. In analyzing these problems the course emphasizes the institutions through which they are created and perpetuated and the form of institutional change required to address them.

#### SOC 2090 Networks (also CS 2850, ECON/INFO 2040) (SBA-AS)

Spring. 4 credits. D. Easley and J. Kleinberg.

For description, see ECON 2040.

#### SOC 2100 What Is Science? (also STS 2011) (CA-AS)

Spring. 3 credits. K. Vogel.

For description, see STS 2011.

#### SOC 2150 Organizations: An Introduction (also DSOC 2150) (SBA-AS)

Fall. 4 credits. E. Hirsh.

Most of us spend the majority of our lives in the context of formal organizations; we attend schools, work for corporations, attend churches, join sororities or fraternities, and shop at our local coops. While the prominence of formal organizations in our daily lives is an indicator of their success and efficiency in modern society, we also know that organizations can be impersonal, unresponsive, and even corrupt. This course provides an introduction to the study of organizations in sociology. We will consider various types of organizations and how they operate, evolve, and change. A general theme throughout the course is the tension between complex organizations as efficient, productive institutions and the many unintended, and even perverse, consequences that organizations can have for those who interact with them. We also consider the role organizations play in both maintaining social stability and facilitating social change.

#### SOC 2160 Health and Society (SBA-AS)

Spring. 4 credits. E. York Cornwell.

This course will examine how social factors shape physical and mental health. First, we will review social scientific research on the relationship between health and status characteristics, neighborhood and residential context, employment, social relationships and support, religion, and health-related behaviors. We will devote particular attention to the development of research questions and methodological approaches in this work. Next, we will directly examine the relationship between health and social factors using data from a nationally representative survey. Course instruction will include statistical analysis of survey data and social scientific writing. Students will develop their own research exploring how social factors contribute to health.

#### SOC 2180 American Community and Society (SBA-AS)

Fall. 4 credits. M. Brashears.

This course will explore what we mean by community and society and present a number of different explanations for their development and operation. We will begin with general structural theories in sociology, which account for society through the basic demographic and mathematical features of human groups. We will then proceed to explore how structure interacts with culture and agency in specific contexts, including sex, gender, and economics. We will conclude by examining more cultural explanations for the development and change of community and society.

#### SOC 2202 Population Dynamics (also DSOC 2010) (CA-AS)

Spring. 3 credits. Staff.

For description, see DSOC 2010.

#### [SOC 2203 Work and Family in Comparative Perspective (SBA-AS)

Fall. 4 credits. Next offered 2010–2011. Staff.

For description, see department.]

#### SOC 2206 International Development (also DSOC 2050) (HA-AS)

Spring. 3 credits. Staff.

For description, see DSOC 2050.

#### SOC 2208 Social Inequality (also DSOC 2090) (SBA-AS)

Spring. 4 credits. K. Weeden.

Reviews contemporary approaches to understanding social inequality and the processes by which it comes to be seen as legitimate, natural, or desirable. We address questions of the following kind: What are the major forms of stratification in human history? Are inequality and poverty inevitable? How many social classes are there in advanced industrial societies? Is there a "ruling class?" Are lifestyles, attitudes, and personalities shaped fundamentally by class membership? Can individuals born into poverty readily escape their class origins and move upward in the class structure? Are social contacts and "luck" important forces in matching individuals to jobs and class positions? What types of social processes serve to maintain and alter racial, ethnic, and gender discrimination in labor markets? Is there an "underclass?" These and other questions are addressed in light of classical and contemporary theory and research.

#### [SOC 2210 Race, Class, and Gender Research in Practice (SBA-AS)

Spring. 4 credits. Next offered 2010–2011. K. Weeden.

This course introduces the underlying logic of social scientific research in context of contemporary debates about social inequality: e.g., educational testing and tracking, race-based affirmative action.]

**[SOC 2220 Controversies about Inequality (also DSOC/ILROB/PAM 2220, GOVT 2225, PHIL 1950) (SBA-AS)]**

Spring, 4 credits. Next offered 2010–2011. S. Morgan.

For description, contact department.]

**[SOC 2250 Schooling and Society]**

Spring, 4 credits. Next offered 2010–2011. L. Auf der Heide.

This course will use classical and contemporary theory, as well as recent research, to explore the institution of education.]

**[SOC 2460 Drugs and Society (SBA-AS)]**

Spring, 4 credits. D. Heckathorn.

The course focuses on drug use and abuse as a social rather than as a medical or psychopathological phenomenon. Specifically, the course deals with the history of drug use and regulatory attempts in the United States and around the world; the relationship between drug use and racism/class conflict; pharmacology and use patterns related to specific drugs; perspectives on the etiology of drug use/abuse; AIDS prevention and harm reduction interventions; drug-using subcultures; drug policy, drug legislation, and drug enforcement; and the promotion and condemnation of drug activities in the mass media.

**[SOC 2480 Politics and Culture (also GOVT 3633) (HA-AS)]**

Fall, 4 credits. M. Berezin.

Focuses on currently salient themes of nationalism, multiculturalism, and democracy. It explores such questions as who is a citizen; what is a nation; what is a political institution; and how do bonds of solidarity form in modern civil society. Readings are drawn principally from sociology and where applicable from political science and history. Journalist accounts, films, and web site research supplement readings.

**[SOC 2510 Social Gerontology: Aging and the Life Course (also HD 2510)]**

Spring, 3 credits. E. Wethington.

For description, see HD 2510.

**[SOC 2560 Sociology of Law (SBA-AS)]**

Fall, 4 credits. E. York Cornwell.

This course provides an introduction to the sociological perspective of law and legal institutions in modern society. A key question is the extent to which the law creates and maintains social order. And, what is its role in social change? We will review theoretical perspectives on the reciprocal relationship between law and society, and consider how this relationship is reflected in contemporary legal issues. Empirical research covered in this course will examine social interactions among actors within legal institutions (including the criminal courts, law school classrooms, and the jury room), and how individuals experience and utilize the law in everyday life.

**[SOC 2650 Latinos in the United States (also DSOC 2650, LSP 2010) (SBA-AS)]**

Spring, 3 credits; 4-credit option available. H. Velez.

Exploration and analysis of the Hispanic experience in the United States. Examines the sociohistorical background and economic, psychological, and political factors that converge to shape a Latino group identity in the United States. Perspectives are suggested and developed for understanding Hispanic migrations, the plight of Latinos in urban and rural areas, and the unique problems faced by the diverse Latino groups. Groups studied include Mexican Americans, Dominicans, Cubans, and Puerto Ricans.

**[SOC 2710 Social and Political Context of American Education (also AMST/ EDUC 2710/5710, SOC 5710) (SBA-AS)]**

Fall, 3- or 4-credit option. J. Sipple.

For description, see EDUC 2710.

**Methods and Statistics Courses**

**[SOC 3010 Evaluating Statistical Evidence (also SOC 6010) (MQR)]**

Fall, 4 credits. Prerequisite: Arts and Sciences students only. M. Brashears.

This course will introduce students to the theory and mathematics of statistical analysis. Many decisions made by ourselves and others around us are based on statistics, yet few people have a solid grip on the strengths and limitations of these techniques. This course will provide a firm foundation for statistical reasoning and logical inference using probability. While there is math in this course, it is not a math class per se, as a considerable amount of attention is devoted to interpreting statistics as well as calculating them.

**[SOC 3040 Social Networks and Social Processes (SBA-AS)]**

Fall, 4 credits. Next offered 2010–2011. D. Strang.

How do groups self-segregate? What leads fashions to rise and fall? How do rumors spread? How do communities form and police themselves on the Internet?

**[SOC 3070 Society and Party Politics (also GOVT 3063) (SBA-AS)]**

Spring, 4 credits. S. Van Morgan.

This course will focus on the role that society plays in the emergence and functioning of political parties. In addition to investigating different types of party systems, the societal roots of political parties, and the influence of institutions on electoral politics, the course will also examine contemporary debates, such as the relationship between culture and electoral behavior. Case studies will be drawn from a number of Western and non-Western settings.

**Intermediate Courses**

**[SOC 3110 Group Solidarity (SBA-AS)]**

Spring, 4 credits. M. Macy.

What is the most important group that you belong to? What makes it important? What holds the group together, and how might it fall apart? How does the group recruit new members? Select leaders? Make and enforce rules? Do some members end up doing most of the work while others get a free ride? This course explore these questions from an interdisciplinary perspective, drawing on sociobiology, economics, and social psychology, as it applies alternative theories of group solidarity to a series of case studies, such as urban gangs, spiritual communes, the civil rights movement, pro-life activists, athletic teams, work groups, and college fraternities.

**[SOC 3130 Sociology of Medicine (also STS 3111) (SBA-AS)]**

Fall, 4 credits. C. Leuenberger.

For description, see STS 3111.

**[SOC 3190 Contemporary Sociological Theory (SBA-AS)]**

Spring, 4 credits. Next offered 2010–2011. D. Strang.

Introduction to main ideas and lines of research in contemporary sociology, from the emergence of the field in the American academy to the present.]

**[SOC 3240 Environment and Society (also DSOC 3240, STS 3241) (SBA-AS)]**

Spring, 3 credits. Staff.

For description, see DSOC 3240.

**[SOC 3270 Toleration and Fundamentalism (SBA-AS)]**

Spring. Next offered 2011–2012.

M. Berezin.

For description, contact department.]

**[SOC 3360 Evolving Families: Challenges to Public Policy (also PAM 3360) (SBA-AS)]**

Spring, 3 credits. S. Sassler.

For description, see PAM 3360.

**[SOC 3370 Race and Public Policy (also PAM 3370) (SBA-AS)]**

Fall, 3 credits. S. Sassler.

For description, see PAM 3370.

**[SOC 3410 Modern European Society and Politics (also GOVT 3413) (SBA-AS)]**

Fall, 4 credits. S. Van Morgan.

For description, see GOVT 3413.

**[SOC 3500 Sociology of China's Transition to Capitalism @ (SBA-AS)]**

Spring, 3 credits. V. Nee.

China's rise as a major global economic power is examined in this course from the sociological perspective. The political elite initiated economic reform in 1978 to revive its state-owned economy; yet from the reform emerged a new capitalist economy. The course examines the social origin of entrepreneurs, the nature of the firms they founded, their use of social networks in markets, and the social construction of the economic institutions of capitalism. The course studies the social and economic transformations caused by the rise of capitalism, from the "floating population" of migrant rural labor, new urban consumer society, to the social costs of degradation of the natural environment. Lastly, the course compares capitalism in China and in the West, pointing to similarities and differences in the varieties of capitalist economies and how they experience global economic crisis.

**[SOC 3570 Schooling, Racial Inequality, and Public Policy in America (SBA-AS)]**

Spring, 4 credits. S. Morgan.

After examining alternative explanations for why individuals obtain different amounts and types of educational training, the course focuses on how an individual's family background and race affect his or her trajectory through the educational system. The course covers the specific challenges that have confronted urban schooling in America since the 1960s, including the classic literature on the effects of school and community resources on student achievement and as well as the development and later evaluation of school desegregation policies. Also considers case studies of current policy debates in the United States, such as housing segregation and school

resegregation, voucher programs for school choice, and the motivation for and consequences of the establishment of state-mandated testing requirements. Throughout the course, emphasis is placed upon the alternative modes of inquiry and writing which opposing scholars, policymakers, and journalists use to address these contentious topics.

**SOC 3620 Employment Inequality and the Law (SBA-AS)**

Fall. 4 credits. E. Hirsh.

The work people do is important for all aspects of their lives, including their earnings, their social status, where they live, and opportunities for their children. This course examines gender, race, and ethnic inequality in the context of employment. While traditional explanations of employment inequality focus on how differences in workers' skills and qualifications lead to disparities in income, status, and other work-related rewards, this course emphasizes how organizational and legal structures—such as hiring practices, workplace policies, and the law—produce variation in inequality. The course concludes with a discussion of how employment law can intervene in the perpetuation of sex, race, and ethnic inequality.

**[SOC 3670 Social Inequalities in Physical and Mental Health (also HD 3570)**

Fall. 3 credits. Next offered 2010–2011.

E. Wethington.

For description, see HD 3570.]

**SOC 3710 Comparative Social Inequalities (also DSOC 3700) (SBA-AS)**

Fall and spring. 3 credits. Fall, R. Mize; spring, T. Hirsch.

For description, see DSOC 3700.

**SOC 3750 Classical Theory # (SBA-AS)**

Spring. 3 credits. Staff.

Introduction to the classics in sociology, primarily works by Karl Marx, Max Weber, Emile Durkheim, and Georg Simmel. Students also study the works of Alexis de Tocqueville, Montesquieu, and Joseph Schumpeter. Special emphasis is put on the concepts, ideas, and modes of explanation that characterize the classics. Students also look at these writers' empirical material, and what may be termed the social construction of the classics. Course requirements include active class participation and three tests in class.

**SOC 3950 The Nature of Capitalism: Markets, Firms, and People (SBA-AS)**

Spring. 4 credits. R. Swedberg.

This course looks at the modern economy from a sociological perspective in which the role of capitalism is emphasized. It begins with a presentation and discussion of the key theoreticians of capitalism, such as Marx, Weber, Schumpeter, and Polanyi. It then continues with the various institutions that make up or are part of the capitalist system, such as the firm, the market, the state, and the legal system. Cultural aspects of capitalism as well as normative argument, for and against capitalism, will also be discussed. Course requirements include active class participation and three tests in class.

**SOC 3970 Israeli–Palestinian Conflict (also GOVT 3977, HIST 3970, JWST/NES 3697) @ (HA-AS)**

Spring. 4 credits. R. Brann.

For description, see NES 3697.

**Advanced Courses**

The following courses are intended for advanced undergraduates with substantial preparation, as well as for graduate students in sociology and related disciplines. The normal prerequisite for all 4000-level courses is one introductory course plus 3010 (or an equivalent statistics course). Students who are not sure whether their background is sufficient for a particular course should consult the professor.

**SOC 4080 Qualitative Methods (also SOC 5080) (SBA-AS)**

Spring. 4 credits. M. Berezin.

This course aims to acquaint students with the practice of non-quantitative research methods. It does not offer a laundry list of techniques, rather it asks students to think about how particular methods are more or less suited to the answering of particular types of research questions. The course is divided into four parts: (1) a general discussion of theory, methods and evidence in social science; (2) a series of readings and exercises on particular methods; (3) an analysis of full-length works to see how they were put together; (4) discussion of student projects.

**SOC 4100 Health and Survival Inequalities (also DSOC/FGSS 4100) (SBA-AS)**

Fall. 4 credits. A. Basu.

For description, see DSOC 4100.

**SOC 4210 Theories of Reproduction (also DSOC/FGSS 4210) (SBA-AS)**

Spring. 4 credits. A. Basu.

For description, see DSOC 4210.

**[SOC 4250 Artificial Societies (also SOC 5270) (SBA-AS)]**

Spring. 4 credits. Next offered 2010–2011.

M. Macy.

This seminar is an introduction to computer simulation. The course surveys the history of social simulation and introduces students to complexity theory, game theory.]

**SOC 4340 Online Social and Information Networks**

Fall. 4 credits. M. Macy.

This research seminar will introduce students to the methods of network analysis and online data collection, as well as theoretical models of online social interaction, including diffusion, homophily, and social influence. Students will design, develop, and carry out a semester-long research project using these methods and models.

**[SOC 4420 The Sociology of Science (also BSOC/STS 4421) (SBA-AS)]**

Spring. 4 credits. Next offered 2010–2011.

T. Pinch.

For description, see STS 4421.]

**[SOC 4460 Economic Sociology (also SOC 6460) (SBA-AS)]**

Fall. 4 credits. Next offered 2011–2012.

V. Nee.

This course introduces the field of economic sociology and covers major topics addressed by sociologists studying the intersection of economy and society.]

**SOC 4510 Special Topics in Social Psychology: Social Structure and Personality**

Spring. 4 credits. L. Auf der Heide.

As individuals living in societies, we are both impacted by our positions within society, and have the ability, through our membership in

groups, to impact society. The study of social structure and personality examines this reciprocal relationship between individuals and their societies. This course is structured in three units. In the first unit of the course students will examine how sociology views the processes by which individuals come to have a self, how we think about ourselves, and how we feel about ourselves. The second unit will expose students to literature that documents how an individual's location along various dimensions in the social structure (for example, race and ethnicity, gender, age, or social class) impacts familial, work, and educational outcomes. And during the third unit students will investigate the impact of changing cultural values and social structures on our perceptions of the world and our sense of who we are as individuals. Throughout the course, students will be actively engaging with these topics using a positivist, scientific lens; students will be encouraged to approach topics critically, apply concepts to real-life experiences, and write a culminating research paper on a topic of particular interest to the student.

**SOC 4530 Knowledge and Society (also STS 4531) (CA-AU)**

Spring. 4 credits. C. Leuenberger.

For description, see STS 4531.

**SOC 4570 Health and Social Behavior (also HD 4570)**

Fall. 3 credits. Prerequisites: HD 2500, SOC 1101, DSOC 1101, or SOC 2500 and a

course in statistics. Letter grades only.

E. Wethington.

For description, see HD 4570.

**[SOC 4780 The Family and Society in Africa (also ASRC 4606) @ (SBA-AS)]**

Fall, summer. 4 credits. Next offered 2010–2011. N. Assié-Lumumba.]

**SOC 4910 Independent Study**

Fall or spring. 1–4 credits. For undergraduates who wish to obtain research experience or do extensive reading on a special topic. Prerequisite: acceptable prospectus and agreement of a faculty member to serve as supervisor for project throughout semester. Graduate students should enroll in 8910–8920.

**[SOC 4920 Economic Sociology of Entrepreneurship (SBA-AS)]**

Fall. 4 credits. Next offered 2010–2011.

V. Nee.

For description, see department.]

**SOC 4950 Honors Research**

Fall or spring. 4 credits. Prerequisite: sociology seniors; permission of instructor.

**SOC 4960 Honors Thesis: Senior Year**

Fall or spring. 4 credits. Prerequisite: SOC 4950.

**Graduate Core Courses**

These courses are primarily for graduate students in sociology but may be taken by other graduate students with permission of the instructor.

**[SOC 5010 Basic Problems in Sociology I**

Fall. 4 credits. Next offered 2010–2011.

V. Nee.

Analysis of theory shaping current sociological research. Examination of several central problems in sociological inquiry provides an occasion for understanding tensions and continuities between classical and

contemporary approaches, for indicating the prospects for unifying microsociological and macrosociological orientations, and for developing a critical appreciation of efforts to integrate theory and research.]

**SOC 5020 Basic Problems in Sociology II**

Fall. 4 credits. D. Heckathorn.  
Continuation of SOC 5010. Emphasis is on the logical analysis of theoretical perspectives, theories, and theoretical research programs shaping current sociological research. The course includes an introduction to basic concepts used in the logical analysis of theories and examines their application to specific theories and theoretical research programs. Theoretical perspectives include functionalism, social exchange, and interactionism.

**SOC 5060 Research Methods II**

Spring. 4 credits. E. Hirsh.  
This course provides an in-depth examination of linear modeling. We begin with the basics of linear regression, including estimation, statistical inference, and model assumptions. We then review several tools for diagnosing violations of statistical assumptions and what to do when things go wrong, including dealing with outliers, missing data, omitted variables, and weights. Finally, we will explore extensions of the linear regression model, including models for categorical outcomes and hierarchical linear modeling. While statistical modeling is the focus of the course, we proceed with the assumption that models are only as good as the theoretical and substantive knowledge behind them. Thus in covering the technical material, we will spend considerable time discussing the link between substantive knowledge and statistical practice.

**Graduate Seminars**

These seminars are primarily for graduate students but may be taken by qualified advanced undergraduates who have permission of the instructor. The seminars offered in each semester are determined in part by the interests of students, but it is unlikely that any seminar will be offered more frequently than every other year. The list below indicates seminars that are likely to be offered, but others may be added and some may be deleted. Students should check with the department before each semester.

**SOC 5080 Qualitative Methods (also SOC 4080)**

Spring. 4 credits. M. Berezin.  
For description, see SOC 4080.

**[SOC 5100 Seminar on Comparative Societal Analysis**

Spring. 3 credits. Prerequisite: advanced graduate students throughout social sciences; permission of instructor. Next offered 2010–2011. M. Berezin.  
For description, see department.]

**SOC 5180 Social Inequality**

Fall. 4 credits. S. Morgan.  
This course serves as an introduction to contemporary theories, debates, and models regarding the structure of social classes, the determinants of social mobility, the sources and causes of racial, ethnic, and gender-based inequality, and the putative rise of postmodern forms of stratification. The twofold objective is to both review contemporary theorizing and to identify areas in which new theories,

hypotheses, and research agendas might be fruitfully developed.

**[SOC 5190 Workshop on Social Inequality**

Spring. 4 credits. Prerequisite: SOC 5180; sociology Ph.D. students, or permission of instructor. Next offered 2010–2011.  
K. Weeden.

A forum in which students and others can present, discuss, and receive instant feedback on their inequality-related research. Its goal is to help students advance their research.]

**[SOC 5270 Artificial Societies (also SOC 4250)**

Spring. 4 credits. Next offered 2010–2011.  
M. Macy.  
For description, see SOC 4250.]

**[SOC 5280 Conflict and the Nation-State**

Fall. 4 credits. Next offered 2010–2011.  
D. Strang.

The nation–state developed out of conflict, through military competition within Europe and the rise of and response to colonial empires in the Americas, Asia, and Africa.]

**[SOC 5400 Organizational Research**

Fall. 4 credits. Next offered 2011–2012.  
D. Strang.

Seminar focusing on contemporary sociological research on organizations. It centers theoretically on the interplay of institutional, ecological, and choice-theoretic accounts of organizational structure and action.]

**SOC 5710 Social and Political Context of American Education (also AMST/ EDUC 2710/5710, SOC 2710)**

Fall. 3- or 4-credit option. J. Sipple.  
For description, see EDUC 2710.

**SOC 5800 Identity and Interest in Collective Action**

Fall. 4 credits. Offered every other year.  
M. Macy.

This research seminar examines the problem of collective action from alternative theoretical perspectives: one centered on shared interests, the other on common identities. The former claims that groups are held together because the members are interdependent and thus benefit from mutual trust and cooperation in a common endeavor. Identity theorists contend that trust and cooperation may also depend on affective and normative ties among participants who share a salient demarcation (including a “shared fate”). We will explore this debate, and its possible resolution, through an examination of formal theoretical studies (including game theoretic, evolutionary, and agent-based models) as well as empirical research using experimentation and comparative case analysis. We will also examine research on informal social control (including reciprocity and reputation systems), social networks, and mobilizing strategies as mechanisms for reconciling the tension between individual self-interest and collective obligations. The primary goal is to identify, formulate, and launch promising research projects, and to that end, seminar members will be expected to critically engage the literature each week and to write a final paper that advances original research (as a detailed prospectus or, where practical, as a publishable article).

**SOC 5910 Special Seminars in Sociology**

Fall and spring. 2–4 credits. Staff.

These graduate seminars are offered irregularly. Topics, credit, and instructors vary from semester to semester. Students should look at the Sociology Department bulletin board at the beginning of each semester for current offerings.

**SOC 6010 Evaluating Statistical Evidence (also SOC 3010)**

Fall. 4 credits. M. Brashears.  
For description, see SOC 3010.

**[SOC 6050 Political Sociology**

Fall. 3 credits. Next offered 2011–2012.  
S. Soule.  
For description, see department.]

**SOC 6060–6070 Sociology Colloquium**

Fall and spring. 0 credits. Requirement for sociology graduate students. Staff.  
A series of talks representative of current research interests in sociology, given by distinguished visitors and faculty members.

**SOC 6080 Proseminar in Sociology**

Fall. 1 credit. Prerequisite: first-semester sociology graduate students. Staff.  
Discussion of the current state of sociology and of the research interests of members of the graduate field; taught by all members of the field.

**[SOC 6090 Special Topics in Methodology**

Spring. 2 credits. Next offered 2010–2011.  
S. Morgan.  
For description, see department.]

**[SOC 6100 The Sociological Classics**

Spring. 3 credits. Next offered 2010–2011.  
R. Swedberg.  
The purpose of the course is to make the student familiar with the concepts, ideas and ways of reasoning that characterize the major works of the classics.]

**SOC 6110 Introduction to Network Theory and Methods**

Spring. 4 credits. Intended as an introduction for students who have not had exposure to network analysis previously or who are interested in the historical role of networks in sociology.  
M. Brashears.

Social Network Analysis (SNA), or the mathematical analysis of webs of relationships, is a thriving part of sociology and an active research area for numerous other disciplines. This course is intended to introduce students to the basics of SNA and help them apply it to a variety of research questions. We will discuss the theoretical underpinnings of the area, basic concepts used in SNA analyses, and finally methods for describing and interpreting network data. At the completion of this course students should have a basic understanding of social networks and be able to carry out a variety analyses on their own.

**SOC 6260 Controversies in Economic Sociology**

Fall. 4 credits. R. Swedberg.  
This course is open to seniors and graduate students. It takes the form of a seminar in which each meeting will be devoted to a discussion of a controversial and/or difficult issue in economic sociology. Issues that will be discussed for-and-against include the notion of embeddedness, the market, bonuses, and *Homo economicus*. For these classes, there will be two readings for each class: one for and one against. Each student will have to argue once “for” and once “against” on some

issue. A few topics will also be included where there exist substantially different interpretations rather than just “for-and-against” opinions. The main topic here is the current financial crisis, but we will also be discussing different programs in economic sociology besides embeddedness, especially those of Max Weber and Pierre Bourdieu.

**SOC 6300 Cultural Sociology**

Spring, 4 credits. M. Berezin.

Cultural sociology is a flourishing sub-field within sociology that incorporates a wide range of substantive areas (art, inequality, family, politics) and uses a wide range of methods from the ethnographic to the textual. This course proposes to explore some of the leading works and ideas in that field and to analyze how culture operates in social life. It begins by analyzing the different meanings that sociologists have ascribed to culture. We begin by reading classics like Durkheim's *Elementary Forms of Religious Life* then move on to contemporary theorists such as Geertz, Bourdieu, Alexander and Swidler. We then read a series of empirically grounded case studies that make culture the basis of the analysis (i.e., Lamont, *Money Manners and Morals*). We will also analyze certain cultural objects such as films, art, etc. to put into practice some of the ideas from the readings. There is no course such as this taught by a practicing cultural sociologist in the university.

**SOC 6320 Inside Technology: The Social Construction of Technology (also STS 6321)**

Fall, 4 credits. Staff.

For description, see STS 6321.

**[SOC 6350 Network Sampling and Network Structure**

Fall, 4 credits. Next offered 2010–2011.

D. Heckathorn.

Network sampling methods provide means for drawing probability samples of hidden and hard-to-reach populations. These are difficult to sample using standard survey research methods.]

**[SOC 6460 Economic Sociology (also SOC 4460)**

Fall, 4 credits. Next offered 2011–2012.

V. Nee.

For description see SOC 4460.]

**[SOC 6500 Research Methods in Social Movements**

Spring, 4 credits. Next offered 2011–2012.

S. Soule.

For description, see department.]

**[SOC 6600 States and Social Movements (also GOVT 6603)**

Spring, 4 credits. Next offered 2010–2011.

S. Tarrow.

For description, see GOVT 6603.]

**SOC 6660 Event History Analysis**

Spring, 4 credits. D. Strang.

Event history analysis (also known as hazard or survival analysis) is a family of methods for the study of discrete outcomes over time. Typical sociological examples are demographic events (births, deaths) and forms of institutional or structural change (marriage, job entry, revolution). This class introduces main concepts, models, and measurement issues in event history analysis, and provides students with an opportunity to gain practical familiarity with the technique.

**SOC 6860 War, States, and Human Rights (also GOVT 6867)**

Fall, 4 credits. S. Tarrow.

For description, see GOVT 6867.

**SOC 6910 Independent Study**

Fall or spring. 2–4 credits. Prerequisite: graduate status and permission of faculty member willing to supervise project. Staff.

For graduates who wish to obtain research experience or to do extensive reading on a special topic. Permission to enroll for independent study is granted only to students who present an acceptable prospectus and secure the agreement of a faculty member to serve as supervisor for the project throughout the semester.

**[SOC 7780 Solidarity in Groups (also ILROB 7780)**

Fall, 3 credits. Next offered 2010–2011.

E. Lawler.

For description, see ILROB 7780.]

**SOC 8910–8920 Graduate Research**

8910, fall; 8920, spring. Variable to 4 credits each semester. Prerequisite: graduate standing and permission of faculty member willing to supervise project.

**SOC 8950–8960 Thesis Research**

8950, fall; 8960, spring. Variable to 6 credits each semester. Prerequisite: permission of thesis supervisor.

**SOUTH ASIA PROGRAM**

D. Gold, director; A. Banerjee, A. Basu, K. Basu, A. Blackburn, B. Bledsoe, D. Bor, D. Boucher, I. Dadi, L. Derry, S. Feldman, D. Ghosh, D. Gurak, M. Hatch, B. Herath, R. Herring, D. Holmberg, S. Kalantry, R. Kanbur, M. Katzenstein, N. Kudva, S. Kuruvilla, B. Lust, B. MacDougall, M. Majumdar, K. March, L. McCrear, K. McGowan, S. Mohanty, S. Mukherjee, V. Munasinghe, A. Nussbaum, S. Oja, P. Olpadwala, B. Perlus, E. Prasad, K. V. Raman, A. Ruppel, N. Sethi, S. Singh, N. Swanson, E. Tagliacozzo, S. Toorawa, R. Travers, M. Walter, M. Weiss, A. Willford. Emeritus: R. Colle, J. Gair, K. A. R. Kennedy, M. Latham, D. Sisler, E. Thorbecke, N. Uphoff.

The South Asia Program coordinates research, teaching, and special campus events relating to Afghanistan, Bangladesh, India, Pakistan, Nepal, and Sri Lanka. The program faculty include members from a variety of disciplines, including agricultural economics, agricultural engineering, anthropology, architecture, art, city and regional planning, comparative religion, development sociology, ecology and systematics, economics, English, geology, government, history, history of art, human ecology, industrial and labor relations, international agriculture, linguistics, and literature. Undergraduates with a special interest in the region may major in Asian Studies with a South Asian concentration, or complete a South Asia minor with any other major. Graduate students may pursue the M.A. degree in Asian Studies with a concentration in South Asia.

Languages offered are Bengali, Hindi, Nepali, Sinhala, Sanskrit, Tamil, and Urdu. Foreign Language and Area Studies scholarships are available to graduate students who are U.S. citizens or permanent residents. Scholarships are also available for undergraduates studying

intensive language in the summer. Cornell is a member of the American Institutes of Bangladesh, Indian, Pakistan, and Sri Lankan studies. For details on the major, see the Department of Asian Studies listing in this volume. For courses available in South Asian studies, or for further information on research opportunities, direct questions to the South Asia Program Office, 170 Uris Hall, 255–8493. [www.einaudi.cornell.edu/SouthAsia](http://www.einaudi.cornell.edu/SouthAsia).

**SOUTHEAST ASIA PROGRAM**

T. Chaloemtiarana, director (180 Uris Hall); I. Azis, W. Bailey, A. Blackburn, A. Cohn, M. Fiskesjo, M. Hatch, S. Kuruvilla, F. Logevall, T. Loos, K. McGowan, L. Paterson, T. Pepinsky, E. Tagliacozzo, K. Taylor, M. Welker, A. Willford, L. Williams, Emeritus: B. Anderson, R. Barker, S. O'Connor, E. Thorbecke, J. Wolff. Lecturers: N. Jagacinski, J. Pandin, H. Phan, T. Savella, T. Tranviet, S. Tun

Southeast Asia studies at Cornell is within the framework of the Department of Asian Studies and affiliates with the Einaudi Center for International Studies. Nineteen core faculty members in the colleges of Arts and Sciences, Business and the Johnson Graduate School of Management, the School of Industrial and Labor Relations, and Agriculture and Life Sciences participate in an interdisciplinary program of teaching and research on the history, culture, and societies of the region stretching from Burma through the Philippines. Courses are offered in such fields as anthropology, Asian studies, economics, finance, government, history, history of art, labor relations, linguistics, music, and development sociology. Instruction is also offered in a wide variety of Southeast Asian languages: Burmese, Cambodian (Khmer), Indonesian, Tagalog, Thai, and Vietnamese. In addition, faculty from other disciplines provide area instruction on Southeast Asia. The formal program of study is enriched by a diverse range of extracurricular activities, including an informal weekly brown bag seminar, art exhibits at the Johnson Museum, and concerts of the Gamelan Ensemble. The George McT. Kahin Center for Advanced Research on Southeast Asia is the site for public lectures as well as publication and outreach activities related to this program. The John M. Echols Collection on Southeast Asia, in Kroch Library, is the most comprehensive collection on Southeast Asia in the United States.

Undergraduates may major in Asian Studies with a focus on Southeast Asia and its languages, or they may elect to minor in Southeast Asian studies with any other major by completing 18 credits of course work. Graduate students may work toward an M.A. degree in Southeast Asian studies or pursue a Master of Professional Studies in another school with a concentration in Southeast Asian studies. Ph.D. students specializing in Southeast Asia receive a doctorate in a discipline such as history, history of art, anthropology, government, linguistics, music, economics, or city and regional planning. Academic Year and Summer Foreign Language and Area Studies scholarships are available to graduate students who are U.S. citizens or permanent residents.

For courses available in Southeast Asian studies and details on the major, see the Department of Asian Studies listing in this volume. Additional information is available at

www.einaudi.cornell.edu/southeastasia.  
Inquiries for further information should be directed to the program office, 180 Uris Hall, 255-2378 or SEAP@cornell.edu.

## SPANISH

See "Department of Romance Studies."

## STATISTICAL SCIENCE DEPARTMENT

The university-wide Department of Statistical Science coordinates undergraduate and graduate study in statistics and probability. A list of suitable courses can be found in the CIS section of this catalog.

## SWAHILI

See "Africana Studies and Research Center."

## SWEDISH

See "Department of German Studies."

## TAGALOG

See "Department of Asian Studies."

## THAI

See "Department of Asian Studies."

## THEATRE, FILM, AND DANCE

Faculty: A. Villarejo, chair; R. Archer, S. Bernstein, S. Brookhouse, J. Chu (on leave spring 2010), W. Cross, M. Dreyer, D. Feldshuh, A. Fogelsanger (director of undergraduate studies in dance), D. Fredericksen (director of undergraduate studies in film), J. E. Gainor (on leave 2009-2010), K. Goetz, S. Haenni (on leave fall 2009), D. Hall, E. Intemann, J. Kovar (on leave fall 2009), B. Levitt, P. Lillard, R. MacPike, B. Milles, J. Morgenroth (on leave fall 2009), L. Patti, M. Rivchin, N. Salvato (on leave fall 2009), J. Self, B. Suber, A. Van Dyke (director of undergraduate studies in theatre), S. Warner (on leave spring 2010), H. Yan (director of graduate studies).

Teaching staff: A. Bernstein, L. Boquist, S. Kelly, B. Komala, T. Ostrander, K. Phoenix, F. Sellers, J. Tindall.

Through its courses and production laboratories, the department provides students with a wide range of opportunities in theatre, film, and dance. It also offers bachelor of arts degrees in each of those areas. These majors educate students in accordance with the general liberal arts ethic of the college. The department invites and encourages academic and studio participation by students from all disciplines.

## Theatre Arts Major

R. Archer, S. Bernstein, S. Brookhouse, W. Cross, D. Feldshuh, J. E. Gainor (on leave 2009-2010), K. Goetz, D. Hall, E. Intemann, B. Levitt, P. Lillard, R. MacPike, B. Milles, L. Patti, N. Salvato (on leave fall 2009), A. Van Dyke (director of undergraduate studies), S. Warner (on leave spring 2010), H. Yan (director of graduate studies).

The theatre major offers studies in the history of theatre, dramatic theory and criticism, playwriting, acting, directing, design/technology, and stage management. Students interested in the theatre arts major should consult with Alison Van Dyke (director of undergraduate studies).

### Theatre major requirements Credits

1. **THETR 2400** and **2410** 8  
**THETR 2500** Introduction to Theatre Design and Technology 4  
**THETR 2800** Introduction to Acting 3
2. Four laboratory courses distributed as follows:  
**THETR 1510** Production Lab I 1-3  
**THETR 1530, 2530,** or **3530** Stage Management Lab I, II, or III 1-4  
**THETR 1550** Rehearsal and Performance or **THETR 1510** in a different area 1-3  
**THETR 2510** or **3510** Production Lab II or III 1-3
3. Four courses in the area of **theatre studies** (see "Theatre Studies" section of theatre courses) chosen in the following manner:  
one course must be at 3000 level  
one course must be at 4000 level  
two additional courses at the 3000 or above level  
one of the four courses must be pre-20th century.
4. Three courses (at least 9 credits) in other theatre courses chosen in consultation with the faculty advisor. Course taken to qualify for admission to the Advanced Undergraduate Theatre Program (described below) may also be used to fulfill this requirement.
5. Courses in which a student receives a grade below C cannot be used to fulfill the requirements for a Theatre major.

## Honors

The theatre honors program is for majors who have demonstrated exceptional ability in the major and who seek an opportunity to explore branches of their subject not represented in the regular curriculum or to gain experience in original research. To be part of the honors program the student must maintain a GPA of 3.5 in classes for the theatre major and an average of 3.0 in all courses. Students must consult with their advisors in the spring of their junior year to enroll in the honors programs.

## The Advanced Undergraduate Theatre Program

The department offers advanced study in directing, playwriting, design/technology, and stage management to students who qualify on

the basis of outstanding achievement in course work. Admission to the AUTP is by invitation of the area faculty supervisor and the completion of a recommended "track" of courses or equivalent experience. (For recommended courses of study see listing of courses at end of departmental listings.) Approval process includes a portfolio review and/or interview. The program provides students with intensive study in theatre as well as the opportunity to collaborate with professional faculty and guest artists.

## Minor in Theatre

The Theatre Minor is divided into three tracks in order to allow students to focus in the area that interests them most within the theatre discipline. The Theatre Studies Track is the most generalized, providing an introductory exposure to performance and production studies, with the remaining courses taken in theatre history, theory and criticism. The Theatre Performance Track is tailored to students who wish to focus their studies in the areas of acting and directing. And the Theatre Production Track is tailored to those students interested in exploring more specifically theatre design and technology.

### Requirements:

#### Theatre Studies Track

1. THETR 2400 or 2410: Introduction to World Theatre I or II
2. THETR 2800: Introduction to Acting
3. one production studio course
4. one theatre studies course at any level
5. one 3000-level theatre studies course
6. 1-3 credits of THETR 1510, 2510, or 3510: Production Laboratory I, II, or III

#### Theatre Performance Track

1. THETR 2400 or 2410: Introduction to World Theatre I or II
2. THETR 2800: Introduction to Acting
3. three acting or directing courses
4. 1-3 credits of THETR 1510, 2510, or 3510: Production Laboratory I, II, or III

#### Theatre Production Track

1. THETR 2400 or 2410: Introduction to World Theatre I or II
2. THETR 2500: Fundamentals of Theatre Design and Technology
3. any three production studio courses
4. 1-3 credits of THETR 1510, 2510, or 3510: Production Laboratory I, II, or III

Courses in which a student receives a grade below a C cannot be used to fulfill the requirements for the Theatre Minor.

Information on current courses that can be used to satisfy requirements of the above minors can be obtained at 223 Schwartz Center, or online at [www.arts.cornell.edu/theatrearts/academics/theatre/TheatreMinorRequirements.asp](http://www.arts.cornell.edu/theatrearts/academics/theatre/TheatreMinorRequirements.asp).

## Independent Study, Internships, and Honors

### THETR 3000 Independent Study

Fall, spring, or summer. 1–4 credits.  
Independent study in theatre allows students the opportunity to pursue special interests not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the course, must approve the student's program of study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study, which is available in 223 Schwartz Center.

### THETR 4850 Undergraduate Internship

Fall, spring, or summer. 1–3 credits.  
Prerequisite: majors or concentrators in the department.  
Students are responsible for arranging their own internships in consultation with the faculty in their area of choice *before* preregistration for the semester in which the internship is planned to take place. To receive credit for this course, the internship must be unpaid. Students must follow the rules and procedures stated in the departmental internship form.

### THETR 4950 Honors Research Tutorial

Fall. 4 credits. Prerequisite: honors students in theatre.  
First of a two-semester sequence (the second is THETR 4960) for seniors engaged in an honors project.

### THETR 4960 Honors Research Tutorial

Spring. 4 credits. Prerequisite: honors students in theatre.  
Second of a two-semester sequence (the first is THETR 4950) for students engaged in an honors project.

### THETR 7210 Independent Study for Graduate Students in Theatre

Fall and spring. 1–4 credits. Staff.  
Independent study in theatre allows graduate students the opportunity to pursue special interests not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the course, must approve the student's program of study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study, which is available in 223 Schwartz Center.

## First-Year Writing Seminars

Consult the John S. Knight Institute brochure for times, instructors, and descriptions.

## Theatre Studies

### [THETR 2150 The American Musical (also AMST 2105, ENGL 2150, MUSIC 2250) (LA-AS)]

Fall. 3 credits. Next offered 2010–2011. N. Salvato.  
The musical is a distinct and significant form of American performance. This course will consider the origins, development, and internationalization of the American musical and will emphasize how political, social, and economic factors shape the production of important American musicals.]

### [THETR 2230 The Comic Theater (also CLASS 2651, COML 2230) # (LA-AS)]

Spring. 3 credits. Next offered 2010–2011. J. Rusten.  
For description, see CLASS 2651.]

### [THETR 2360 Public Voice and Civic Gesture (also DANCE 2450, VISST 2360)]

Fall. 1 credit. Next offered 2010–2011. B. Suber.  
For description, see DANCE 2450.]

### THETR 2400 Introduction to World Theatre I—Antiquity through 1500 # (LA-AS)

Fall. 4 credits. S. Warner.  
A survey of practices, literatures, and themes of global performance in Africa, America, Asia, and Europe from antiquity through 1500. Examines case studies from ancient Egypt, Greece, Rome, the Near East, India, China, Japan, and England, continuing up to the age of European imperialism. Looks at issues of masking and identity, storytelling and ritual, stage and society, tradition and modernity. Lectures are combined with periodic student projects.

### THETR 2410 Introduction to World Theatre II—NeoClassical to the Present # (LA-AS)

Spring. 4 credits. N. Salvato.  
A survey of practices, literatures, and themes of global performance from around 1600 to the present. Examines the development of European and Asian vernacular and national theatrical traditions; recent ethnic and popular performance traditions of Europe, Asia, Africa, and meso-America; recurring issues of realism and theatricality; avant-garde innovations; colonial expansion and marginalization; intercultural and transnational exchanges. Lectures are combined with periodic student projects.

### THETR 2605 Theater, Sport, and Spectacle: Performance and Competition in Greece and Rome (also CLASS 2605) # (CA-AS)

Fall. 3 credits. J. Rusten.  
For description, see CLASS 2605.

### THETR 2730 Opera (also MUSIC 2241) # (LA-AS)

Spring. 3 credits. R. Harris-Warrick.  
For description, see MUSIC 2241.

### THETR 2770 Shakespeare (also ENGL 2270) # (LA-AS)

Fall. 4 credits. B. Correll.  
For description, see ENGL 2270.

### [THETR 2780 Desire (also COML/ENGL/FGSS 2760) (LA-AS)]

Spring. 4 credits. Next offered 2011–2012. E. Hanson.]

### [THETR 3130 Special Topics in Drama and Performance (also ENGL 3760, FGSS 3130)]

Fall. 4 credits. Next offered 2010–2011. S. Warner.  
An intensive study of a particular dramatist, period, form or problem in drama and/or performance. Topics, prerequisites and formats will vary from year to year.]

### THETR 3190 Music, Dance, and Light (also DANCE 3590, VISST 3519) (LA-AS)

Spring. 3 credits. Attendance at dance concerts and music concerts required. A. Fogelsanger and E. Intemann.  
For description, see DANCE 3590.

### THETR 3260 Queer Performance (also FGSS 3250) (LA-AS)

Fall. 3 credits. Limited to 15 students. S. Warner.  
What constitutes queer performance? What is queer's relationship to lesbian and gay? What is performance's relationship to theatre? Is sexuality all we mean by queer?

### [THETR 3350 Modern Western Drama, Modern Western Theatre: Theory and Practice (also ENGL 3350, VISST 3735) (LA-AS)]

Spring. 4 credits. Next offered 2010–2011. N. Salvato.  
This course investigates drama and the cultural contexts of its performance from the mid-19th century to the mid-20th century in Europe and the United States.]

### [THETR 3360 American Drama and Theatre (also AMST 3360) (LA-AS)]

Spring. 4 credits. Prerequisite: permission of instructor. Limited to 25 students. Next offered 2010–2011. N. Salvato.  
This course explores major American playwrights from 1900 to 1960, introducing students to American theater as a significant part of modern American cultural history.]

### [THETR 3370 Contemporary American Theatre (also AMST/ENGL 3370) (LA-AS)]

Spring. 3 credits. Limited to 15 students. Next offered 2010–2011. S. Warner.  
In this course we will examine major trends in American drama from 1960 to the present.]

### THETR 3450 The Tragic Theatre (also CLASS 3645, COML 3440) # (LA-AS)

Spring. 4 credits. Limited to 40 students. F. Ahl.  
For description, see CLASS 3645.

### [THETR 3720 Medieval and Renaissance Drama (also ENGL 3720) # (LA-AS)]

Spring. 4 credits. Next offered 2010–2011. M. Raskolnikov.  
For description, see ENGL 3720.]

### [THETR 4030 Ritual, Play, Spectacle, Act: Performing Culture (also THETR 6030) (LA-AS)]

Spring. 4 credits. Next offered 2010–2011. S. Warner.]

### THETR 4070 Transnational Imagination: A Seminar on Modern Theatre and Cultural History (also THETR 6070) (LA-AS)

Fall. 4 credits. H. Yan.  
This seminar examines a selection of works by major dramatic artists and critical theorists central to the making of modern theatre and cultural history. Materials are organized with a focus on variable aesthetics of visibility and disappearance as sites of human practices in social politics of placement, dislocation, and transformation within and across nationally marked boundaries. Special attention is paid to such issues as codifications of the world stage, regimes of intelligibility, and productive relations between nationally designated performances and pregnant moments of imagination exceeding such designation in the theatres of modern history. Further discussion is devoted to the different ways in which textual scenes, theatrical productions, intellectual articulations, and public events explored in this seminar converge to evoke transformational styles of social subjects, forms of cultural embodiments, and methods of political belongings in the midst of a crisis-ridden era of Globalization. Readings include

theorists Antonio Gramsci, Walter Benjamin, Edward Said, Giorgio Agamben and Alain Badiou, Li Dazhao, and Ding Ling; dramatists Bertolt Brecht, Caryl Churchill, Brian Friel, Ama Ata Aidoo and Wole Soyinka, Kong Shangren, Ouyang Yuqian, and Guo Moruo, as well as a selection of cinematic works, visual arts, and multimedia live performances produced by contemporary multilingual artists.

**[THETR 4200/6200 Parody (also ENGL/ FGSS 4270/6370) (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. N. Salvato.

This course examines a number of recent imitative texts in order to distinguish the rich variety of political agendas and aesthetic rationales for postmodern parody.]

**THETR 4260 Adaptation: Text/ Theatricality (also VISST 4260) (LA-AS)**

Spring. 4 credits. Prerequisite: permission of instructor. B. Milles.

Mounting a script into a show is a process of adaptation from page to stage. This course challenges the boundaries of text to discover the possibilities of performance. Asks: How do we translate inspiration into tangible (or intangible) theatrical imagery? Working in workshop format as actors and writers, students explore the process of developing theatre pieces based on a variety of sources.

**THETR 4270 Advanced Seminar in Shakespeare: Shakespeare and Marlowe (also ENGL 4270) # (LA-AS)**

Fall. 4 credits. B. Correll.

For description, see ENGL 4270.

**THETR 4310 Theory of the Theatre and Drama (also GERST 4310, THETR 6310) # (LA-AS)**

Fall. 4 credits. H. Yan.

This course is a survey of dramatic theory and theories of theatrical representation from Aristotle to the present. Although covering a span of over two thousand years, the point will be to focus our analysis on a smaller number of key representative texts from the European, American, and postcolonial traditions. In so doing we will seek to develop a close reading of each text, while at the same time exploring both their reception within the context in which they emerged as well as their importance in the ever-evolving process of the institutions of theatre and drama over greater periods of time. Participants will be expected to read carefully the primary and background texts assigned for each session and come to class prepared to raise and answer questions about the material at hand.

**THETR 4320 Theatre and Society: A Comparative Study of Asian Dramatic Cultures (also ASIAN 4435/6632, THETR 6320) @ (CA-AS)**

Spring. 4 credits. H. Yan.

This course is a study of Chinese and Japanese theatres with an emphasis on the profound ruptures and variable continuities between “the traditional” and “the modern” aesthetic practices as embodied in the dramatic movements in both countries since the beginning of the 20th century. While major traditional forms of Chinese and Japanese theatres will be introduced and studied in the course, plays by modern Chinese authors such as Hu Shi, Ouyang Yuqian, Hong Shen, Cao Yu, Guo Moruo, and Lao She, modern Japanese authors such as Kishida Kunio, Kubo Sakae, Yukio Mishima, Masakazu Yamazaki, Minoru Betsuyaku, and Seichi Yashiro will be

examined with special attention paid to the transformative ways in which those artists engage their respective traditions and the cultural forces of international modernisms. The aesthetic, social, and political cross-currents between these two historically distinctive Asian dramatic cultures will be further explored in their differential relationships with, and shifting placements in, the changing force fields of globalizing modernity throughout the century. DVDs and other visual materials are used.

**[THETR 4360 The Female Dramatic Tradition (also FGSS 4330) (LA-AS)]**

Spring. 4 credits. Next offered 2010–2011. S. Warner.

Is there a “female dramaturgy?” What is the female tradition in the theatre? This course explores these questions through an investigation of texts by women dramatists, including Hrotsvitha, Aphra Behn, and Caryl Churchill, as well as theory by such critics as Sue Ellen Case and Jill Dolan.]

**[THETR 4400 Romantic Drama (also ENGL 4440/6440, THETR 6440) (LA-AS)]**

Fall. 4 credits. Next offered 2011–2012. R. Parker.]

**THETR 4450 Text Analysis for Production: How to Get from the Text onto the Stage (also ENGL 4450, VISST 4545)**

Spring. 4 credits. Limited to 15 students.

Prerequisite: THETR 2500 or 2810 or 3980, or permission of instructor. B. Levitt.

Examines the play as the central, essential source for production decisions made by the actor, the director, the designer, and the dramaturg. Students “present” their conclusions about the performance of studied texts through project work as either an actor, director, designer, or dramaturg, as well as through two to three papers.

**[THETR 4460 Shakespeare in (Con)text (also ENGL 4210, VISST 4546) # (LA-AS)]**

Fall. 4 credits. Limited to 15 students.

Prerequisite: permission of instructor. Next offered 2010–2011. B. Levitt.

Examines how collaboration among stage directors, designers, and actors leads to differing interpretations of plays. The course focuses on how the texts themselves are blueprints for productions with particular emphasis on the choices available to the actor inherent in the text.]

**THETR 4470 Hamlet: The Seminar (also ENGL 4820) # (LA-AS)**

Fall. 4 credits. Limited to 15 students.

Prerequisites: THETR 2400, 2410, 2420 or equivalent and permission of instructor. B. Levitt.

The most studied and written about work in Western Literature outside the Bible, Hamlet, according to Harold Bloom, is our secular savior and our ambassador to death. This course centers on a close reading of the play. Through research and assigned readings the course tests theoretical viewpoints about the play against the text itself by reading the theory in relationship to the production history.

**THETR 6000 Proseminar in Theatre Studies**

Spring. 4 credits. Prerequisite: graduate standing.

An introduction to the theory and methods involved in the study of the theatre. Attention focuses on pedagogy and the profession in Part I. Part II explores current scholarly trends.

**THETR 6050 Camp, Kitsch, and Trash (also ENGL 6510, FGSS 6050)**

Spring. 4 credits. N. Salvato.

This seminar investigates histories of taste; the traffic between popular culture and “high art”; and the relationships among material artifacts, identity politics, and community formations.

**[THETR 6060 Passionate Politics (also FGSS 6040)]**

Fall. 4 credits. Next offered 2010–2011.

S. Warner.

Complete Course Title: Passionate Politics: Affect, Protest, Performance. This course explores the relationship between affect, performance, and political engagement.]

**THETR 6070 Transnational Imagination: A Seminar on Modern Theatre and Cultural History (also THETR 4070)**

Fall. 4 credits. H. Yan.

For description, see THETR 4070.

**THETR 6270 Studies in Shakespeare: Shakespeare and Marlowe (also ENGL 6270)**

Fall. 4 credits. B. Correll.

For description, see ENGL 6270.

**[THETR 6300 Melodrama, Modernism, and Modernity (also ENGL 6300)]**

Fall. 4 credits. Next offered 2010–2011.

N. Salvato.

This course examines the history of melodrama and the various theories, often sharply divergent, that have developed about and around it.]

**THETR 6310 Theory of Theatre and Drama (also COML 6051, GERST/ THETR 4310)**

Fall. 4 credits. H. Yan.

For description, see THETR 4310.

**THETR 6320 Theatre and Society: A Comparative Study of Asian Dramatic Cultures (also ASIAN 4435/6632, THETR 4320)**

Spring. 4 credits. H. Yan.

For description, see THETR 4320.

**THETR 7100 The Pedagogy of Theatre**

Fall. 4 credits. Corequisite: relevant undergraduate class and permission of instructor. Staff.

Provides graduate students in the field of theatre an opportunity to work directly with a faculty member to explore pedagogical theory and practice for undergraduate theatre classes in all areas of the curriculum.

**Acting**

**THETR 1550 Rehearsal and Performance**

Fall or spring. 1–2 credits; 1 credit per production experience per semester up to 2 credits per semester. Students must register for course in semester in which credit is earned. Prerequisite: students who are assigned roles after tryouts at department’s scheduled auditions. Students should add this course only after they have been assigned roles. S–U grades only.

The study, development, and performance of roles in departmental theatre or dance productions or the study and practice of directing as experienced in assisting faculty and guest directors.

**THETR 2050 Rehearsal Workshop**

Fall or spring. 2 credits. Limited to 30 students. Prerequisites: participation in a particular department production and permission of instructor. Staff.

Enables students participating in a particular production to gain expertise and/or knowledge to contribute to that production. The focus of the course depends on the needs of a particular production (e.g., history, choreography, textwork, dramaturgy).

**THETR 2800 Introduction to Acting (LA-AS)**

Fall and spring. 3 credits. Limited to 16 students per sec. Preregistration and registration only through roster in department office, 223 Schwartz Center. No online registration. Staff.

An introduction to the actor's technique and performance skills, exploring the elements necessary to begin training as an actor, i.e., observation, concentration, and imagination. Focus is on physical and vocal exercises, improvisation, and text and character. There is required play reading, play attendance, and some scene study.

**THETR 2810 Acting I (LA-AS)**

Fall and spring. 3 credits. Limited to 14 students per sec. Prerequisites: sophomore standing and above; THETR 2800 and audition. Registration only through roster in department office, 223 Schwartz Center.

Practical exploration of the actor's craft through exercises in physical and psychological action, improvisation and scene study.

**[THETR 2820 Standard American Stage Speech (LA-AS)]**

Fall. 3 credits. Limited to 10 students. Prerequisites: THETR 2800 and permission of instructor. Next offered 2010–2011. A. Van Dyke.

Introduction to Standard American Stage Speech. Study of various regional American accents and Standard American Stage Speech using the International Phonetic Alphabet (IPA) as a way to designate the vowel, diphthong, and consonant sounds of spoken English.]

**THETR 2840 Speech and Dialects for Performance (LA-AS)**

Spring. 3 credits. Limited to 10 students. Primarily for department majors. Prerequisites: THETR 2810 and permission of instructor. A. Van Dyke.

Development of speech and dialects in dramatic text.

**THETR 3800 Acting II (LA-AS)**

Fall. 3 credits. Limited to 12 students. Prerequisite: THETR 2810 and audition. M. Dreyer.

Continuation of Acting I. Special consideration is given to a physical approach to characterization.

**THETR 3810 Acting III: Advanced Scene Study (LA-AS)**

Spring. 3 credits. Limited to 10 students. Prerequisite: audition. Strong preference given to those who have taken THETR 4460. B. Levitt.

Focuses on advanced problems for the stage. Monologues and scenes are drawn from Shakespeare and classical sources.

**THETR 3840 Commedia; A Contemporization of Physical Acting Styles and the Comic Approach (also VISST 3850) (LA-AS)**

Spring. 3 credits. Limited to 10 students. Prerequisite: THETR 2810, and permission of instructor. B. Milles.

A wholly physical acting course based in the practices of Commedia dell'arte—stock characters, physical lazzi, improvisation, street theatre—using improvisation, some mask work, clown and viewpoint training. An exploration of how to use the body to illuminate text, and how to mine text to maximize comedy.

**THETR 3850 Advanced Studies in Acting Techniques (LA-AS)**

Fall or spring. 3 credits; may be repeated for credit. Limited to 8 students.

Prerequisites: THETR 2810, 2840, audition, and permission of instructor. A. Van Dyke. Scene study using plays that require the accents studied in THETR 2840.

**THETR 3860 Solo Performance (LA-AS)**

Fall. 4 credits. Prerequisites: THETR 2800, 2810, and permission of instructor. B. Levitt.

THETR 3860 was designed to explore the evolution and performance of material from nonscripted texts and focus on the performance of those texts by the solo performer. Material may be drawn from newspapers, novels, poetry, nonfiction, biography, autobiography, and interviews.

**[THETR 4810 Senior Seminar in Theater Exploration]**

Spring. 3 credits. Prerequisites: 3000-level acting course and/or senior theater student by permission of instructors. Next offered 2010–2011. B. Levitt and A. Van Dyke.

This seminar will re-explore and summarize the techniques taught in acting and theater classes relating to performance and serve as a culminating experience for those undergraduates whose major study of interest during their four years at Cornell has been in the performance side of Theatre Arts.]

**Directing****THETR 1770 Student Laboratory Theatre Company**

Fall or spring. 1–2 credits.

The Student Laboratory Theatre Company (SLTC) is a group of student-actors who earn credit by acting in three scenes directed by students taking THETR 4980. Students enrolling in SLTC for credit earn 1 credit for two projects and 2 credits for three projects. SLTC also meets with directors once a week.

**THETR 3980 Fundamentals of Directing I (also VISST 3798) (LA-AS)**

Fall. 3 credits. Limited to 9 students. Prerequisite: permission of instructor. Special consideration given to students who have completed THETR 2800 or are intending to continue in area of stage or screen directing. Students should see instructor one year in advance to sign up for course. D. Feldshuh.

Focused, practical exercises teach the student fundamental staging techniques that bring written text to theatrical life. A core objective is to increase the student's awareness of why and how certain stage events communicate effectively to an audience. Each student directs a number of exercises as well as a short scene.

**THETR 4980 Fundamentals of Directing II (LA-AS)**

Spring. 4 credits. Limited enrollment. Prerequisite: THETR 2800 and 3980, and permission of instructor. Recommended: THETR 2500 and 2810. D. Feldshuh.

Builds on the staging techniques learned in Fundamentals of Directing I. In this course each student directs actors from the Student Laboratory Theatre Company in a series of projects and public presentations focusing on specific directorial challenges.

**THETR 4990 Practicum in Directing**

Fall or spring. 1–4 credits. Prerequisites: THETR 2400, 2500, 2800, 3980, 4980, and permission of instructor. D. Feldshuh.

Allows the student who has completed the appropriate prerequisites the opportunity to direct a full presentation of theatre in conjunction with a faculty mentor. May also involve an internship with a prominent director on campus or the opportunity to assistant direct a faculty or guest director.

**Playwriting****THETR 3480 Playwriting (LA-AS)**

Fall. 4 credits. Limited to 12 students. Prerequisite: permission of instructor. B. Milles.

Various approaches and techniques are examined as the student is introduced to the art and craft of dramatic writing. The student is required to read dramatic texts, observe theatre productions and rehearsals, and write. The semester culminates in the completion of a 20- to 30-minute one-act play.

**[THETR 3490 Advanced Playwriting (LA-AS)]**

Spring. 4 credits. Prerequisite: THETR 3480 or permission of instructor. Next offered 2010–2011. B. Milles.

Continuation of THETR 3480. An intensive writing class. Students are encouraged to explore a rich creative landscape culminating in the completion of a full-length play.]

**[THETR 4970 Seminar in Playwriting]**

Fall or spring. 1–4 credits. Prerequisite: THETR 3480 and 3490 and permission of instructor. Next offered 2010–2011. Staff.

Extension of THETR 3480 and 3490. Students formulate a process for developing a full-length play, which they develop over the course of the semester.]

**Design, Technology, and Stage Management****Design****THETR 2500 Fundamentals of Theatre Design and Technology (LA-AS)**

Fall and spring. 4 credits. Limited to 12 students. Not open to first-semester freshmen. Registration through department roster only in 223 Schwartz Center. Highly recommended: concurrent enrollment in 1 credit of Production Lab (THETR 1510 or 2510). Students required to purchase materials that instructors specify (approx. cost \$50). S. Lambert, W. Cross, E. Intemann, and S. Bernstein.

Lectures, discussion, and project work introduce the principles of designing scenery, costumes, lighting and sound, and the technical process of realizing designs on stage.

**[THETR 2540 Theatrical Makeup Studio]** Spring. 3 credits. Limited to 10 students. Prerequisite: permission of instructor. Registration only through department roster in 223 Schwartz Center. Students are required to purchase makeup kits that instructor provides (approx. cost \$50). It is expected that any interested student will have taken courses within the department in any of the areas of: design, acting, dance, or film, or will have completed rehearsal and performance (THETR 1550) credit. Next offered 2010-2011.

Basic technique of makeup design and application for the stage including corrective, old age, likeness, and animals; use of some three-dimensional makeup and false facial hair.]

**[THETR 3190 Music, Dance, and Light (also DANCE 3590, VISST 3519) (LA-AS)]**

Fall. 3 credits. Limited to 12 students. Attendance at dance concerts and music concerts required. Next offered 2010-2011. E. Intemann and A. Fogelsanger.

Artistic values, parameters, and concerns of music (sound design), dance, and lighting design are compared and contrasted, and the combination of design elements is analyzed in contemporary dance.]

**THETR 3410 CAD Studio for Theatre Design (LA-AS)**

Spring. 3 credits. Prerequisite: THETR 2500 and 3400 and permission of instructor. Registration only through department roster in 223 Schwartz Center. Experience in theatre production and graphic communication helpful but not essential. S. Brookhouse and staff.

Students will utilize commercially available computer assisted design software to explore the process of designing scenery, costume and lighting for the live theatre. AutoCad, Vectorworks and Photoshop are some of the applications utilized.

**THETR 3430 Costume History: From Fig Leaf to Vanity # (LA-AS)**

Fall. 3 credits. Limited to 20 students. S. Bernstein.

Offers an overview of the history of clothing from the first signs of clothing to the early 20th century. It investigates social, political, economic, technological, geographic, ecological, and artistic influences on costume.

**THETR 3620 Lighting Design Studio I (also DANCE 3660, VISST 3620) (LA-AS)**

Fall. 4 credits. Limited to 6 students. E. Intemann.

The theory and practice of lighting design as a medium for artistic expression. This course explores the aesthetic and mechanical aspects of light and their application in a variety of disciplines. Emphasis is on understanding lighting's function in an environment and manipulating light effectively. Artistic style and viewpoint are also covered.

**THETR 3640 Scenic Design Studio (LA-AS)**

Fall and spring. 3 credits. Limited to 10 students. Prerequisite: THETR 2500 and 3400 or permission of instructor. Experience in theatre production and drawing skills is helpful but not essential. Students are required to purchase materials that instructor will specify (approx. cost \$50). Course co-meets with THETR 4640. K. Goetz.

An exploration of the scene design process for the live theatre. Students will execute design projects employing various media (sketches, paper models, computer graphics, etc.) that examine how elements of stage craft, architecture, and interior design can be employed to support and enhance the action of dramatic texts.

**THETR 3650 Automated Lighting and Control**

Fall. 3 credits. Limited to 8 students. E. Intemann and F. Sellers.

Covers the understanding and application of light control technologies, including electrical systems, color, optics, dimming protocols, and console programming. Students complete a series of projects culminating in the programming and use of moving fixtures and lighting visualization software.

**THETR 3660 Costume Design Studio (LA-AS)**

Spring. 3 credits; may be repeated for credit. Limited to 10 students. Students are required to purchase materials that instructor will specify (approx. cost \$70). S. Bernstein.

Design of costumes for the theatre, concentrating on script and character analysis, period research, design elements, figure drawing and rendering skills, and an understanding of production style.

**THETR 3680 Sound Design and Digital Audio (also DANCE 3680, MUSIC 3431) (LA-AS)**

Fall and spring. 3 credits. Prerequisite: permission of instructor. Recommended: some experience with audio/video recording or editing. W. Cross.

Basics of digital audio, psychoacoustics, and sound design as they apply to theatre, film, and music production. Weekly projects require time spent in the studio outside of class. Students create soundtracks for text and moving image, with final projects in 5.1 surround sound, using Pro Tools and Digital Performer.

**[THETR 3690 Interactive Performance Technology (also DANCE 3560, MUSIC 3441) (LA-AS)]**

Fall. 3 credits. Prerequisite: laptop computer and MAX/MSP and Jitter software required, see [www.cycling74.com](http://www.cycling74.com) for student software pricing. Lab performance at end of semester. Next offered 2010-2011. W. Cross and A. Fogelsanger.

Introduction to the multimedia programming platforms MAX/MSP/Jitter and their application to computer-interactive dance (interactive dance technology). Intended to bring together programmers and dancers.]

**THETR 3710 Costume Design Studio II (LA-AS)**

Fall. 3 credits. Limited to 10 students. Prerequisite: THETR 3660, or THETR 2500 with permission of instructor. Students are required to purchase materials that instructor will specify (approx. cost \$50). S. Bernstein.

Explores unconventional costume designs for theatre and dance. Deals with the special considerations found in many plays and performance pieces, such as the theatricalization of nonhuman subjects (e.g., animals, plants, machines, magical creatures), the visualization of music, or the support or enhancement of movement. Also covers alternative (some non-Western) ways to create character through costume, makeup, masks, and wearable forms of puppetry.

**THETR 4620 Lighting Design Studio II (also DANCE 4660, VISST 4563) (LA-AS)**

Spring. 4 credits. Limited to 6 students; may be repeated for credit. Prerequisite: THETR 2500 or 3620 or permission of instructor. E. Intemann.

Concentrates on designing lighting for different genres of performance in various venues. Emphasis is placed on developing both the visual sophistication and the technical artistry of the lighting designer. Commitment, personal style, and professional presentation are stressed.

**THETR 4640 Scene Design Studio II (LA-AS)**

Fall and spring. 3 credits. Limited to 10 students. Prerequisite: THETR 3640 or permission of instructor. Students are required to purchase materials that instructor will specify (approx. cost \$50). Course co-meets with THETR 3640. K. Goetz.

Builds on the techniques learned in THETR 3640. Students will execute more complex design projects tailored to their particular skills, goals, and interests, with emphasis on developing professional standards and practices that would prepare the student for a major design assignment on a department production.

Technology

**THETR 2560 Technical Production Studio II**

Spring. 3 credits. Limited to 6 students. \$30 materials fee. Prerequisite: THETR 2500 or permission of instructor. Additional hands-on time in prop and paint shops required, to be discussed. Staff.

**Scene Painting:** introduction to the basic techniques of painting scenery, including but not limited to the layout and painting of bricks, marble, stone, and wood grain for the theatre. Individual projects in scene painting and participation on paint crew for productions are included.

**Stage Properties:** introduction to the processes of propmaking, including furniture construction and upholstery techniques, use of shop tools and materials, period research, and painting and finishing.

**THETR 3400 Theatrical Drafting and Technical Drawing Studio**

Fall. 3 credits. Limited to 5 students. Prerequisite: permission of instructor. S. Brookhouse.

Implementation of the fundamentals of drafting and technical drawing. Introduction of the concept of an individual style in the approach to drafting for the theatre. Involves a series of projects to familiarize students with the convention and process of visualization and drafting, using both mechanical drafting techniques and AUTOCAD.

**THETR 3410 CAD Studio for Theatre Design (LA-AS)**

Spring. 3 credits. Prerequisite: THETR 2500 and 3400 and permission of instructor. Registration only through department roster in 223 Schwartz Center. Experience in theatre production and graphic communication helpful but not essential. S. Brookhouse and staff.

Students will utilize commercially available computer-assisted-design software to explore the process of designing scenery, costume, and lighting for the live theatre. AUTOCAD,

Vectorworks, and Photoshop are some of the applications utilized.

**THETR 3520 Themed Entertainment: The Technical Perspective**

Fall. 3 credits. Limited to 12 students.  
R. Archer.

Exploration into the integration of art and science in today's theme parks and interactive entertainment attractions. Papers, projects, and discussions deal with planning and development aspects of large-scale entertainment projects including architecture, engineering, construction, and attraction installation. Focus is on the specialized entertainment technologies that make these attractions work: audio and lighting design, ride and show control systems, and special effects.

**THETR 3540 Stagecraft Studio**

Fall. 3 credits. Prerequisite: THETR 2500 or permission of instructor. Highly recommended: concurrent enrollment in at least 1 credit of THETR 1510 or 2510.  
R. Archer.

Exploration of the techniques and practice of theatre operation, scenic construction, stage mechanics, rigging, painting, and model building.

**THETR 3560 Costume Construction Studio**

Spring. 3 credits. Highly recommended: concurrent enrollment in at least 1 credit of THETR 1510 or 2510. Lab fee: \$100 (paid in class). R. MacPike.

Project/lecture/discussion class in costume research, patterning, cutting, construction, and fitting.

**THETR 3600 Costumes: Special Projects**

Fall. 3 credits; may be repeated for credit. Prerequisite: permission of instructor. Lab fee: \$150 (paid in class). R. MacPike.

Designed for students who have completed a basic construction class (in THETR or FSAD, or another department). Each fall, this project-oriented course focuses on one of the following areas of costume crafts: millinery, fabric modification, or mask making. Students should check with the instructor to find out each fall which topic is being offered. Fall 2009 special project is mask-making.

**Stage Management**

**THETR 1530 Stage Management Production Laboratory I**

Fall and spring. 1–2 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 P.M. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes. Prerequisite: permission of instructor. P. Lillard.

Practical experience in theatrical production as assistant stage manager for a dance theatre concert or as a stage manager for readings, Black Box lab productions, or SLTC under the supervision of the faculty production manager. THETR 3700 complements this course.

**THETR 2530 Stage Management Laboratory II**

Fall and spring. 1–5 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 P.M. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes. Prerequisite: permission of instructor.  
P. Lillard.

Practical experience in theatrical production as assistant stage manager for a season production under the supervision of the

faculty production manager. THETR 3700 complements this course.

**THETR 3530 Stage Management Laboratory III**

Fall and spring. 1–4 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 P.M. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes.

Prerequisite: permission of instructor.

P. Lillard.

Practical experience in theatrical production as stage manager for a dance theatre concert or an AUTP production under the supervision of the faculty production manager. THETR 3700 complements this course.

**THETR 3700 Stage Management Studio**

Fall. 2 credits. Prerequisite: THETR 2500 or 2800 or permission of instructor. Students are required to purchase materials that instructor will specify (approx. cost \$10).  
P. Lillard.

Introduction to the concepts and techniques of stage management as they relate to specific areas of production. Development of relevant communication skills and an understanding of the production process as experienced by a working stage manager or assistant stage manager. THETR 1530, 2530, and 3530 complement this course.

**THETR 4530 Stage Management Laboratory IV**

Fall and spring. 1–5 credits; may be repeated for credit. Prerequisite: admission to Advanced Undergraduate Theatre Program. P. Lillard.

Practical experience in theatrical production as stage manager for a season production under the supervision of the faculty production manager.

**Production Laboratories**

**THETR 1510 Production Laboratory I**

Fall and spring. 1–3 credits; may be repeated for credit. No prerequisites or experience required. Orientation meeting at 7:30 P.M. first Tuesday of classes each semester in Kiplinger Theatre at Schwartz Center. P. Lillard, S. Brookhouse and R. MacPike.

Provides practical experiences in theatrical production. Students can work on scenery, costumes, properties, lighting, or stage crew.

**THETR 2510 Production Laboratory II**

Fall and spring. 1–3 credits; may be repeated for credit. Prerequisite: permission of instructor. Orientation meeting at 7:30 P.M. on first Tuesday of classes each semester in Kiplinger Theatre at Schwartz Center. P. Lillard, D. Hall, W. Cross, and R. MacPike.

Practical experience in theatrical production, as a light board operator, sound board operator, video operator, follow-spot operator, sound technician, head dresser or scenery/props special project.

**THETR 3510 Production Laboratory III**

Fall and spring. 1–3 credits; may be repeated for credit. Prerequisite: permission of instructor. P. Lillard, R. Archer, S. Brookhouse, D. Hall, E. Intemann, and S. Bernstein.

Practical experience in theatrical production as a master electrician, assistant technical director, assistant costume shop manager, or assistant to a faculty or guest director or designer.

**THETR 4510 Production Laboratory IV**

Fall and spring. 1–4 credits; may be repeated for credit. Prerequisite: admission to Advanced Undergraduate Theatre Program. P. Lillard, R. Archer, S. Bernstein, D. Hall, W. Cross, and E. Intemann.

Practical experience in theatrical production, in the position of designer, shop manager, technical director, or sound engineer.

**Independent Study, Internships, and Honors**

**THETR 3000 Independent Study**

Summer, fall, or spring. 1–4 credits. Independent study in the theatre allows students the opportunity to pursue special interests not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the course, must approve the student's program of study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study, which is available in 223 Schwartz Center.

**THETR 4850 Undergraduate Internship**

Fall, spring, or summer. 1–3 credits. To be eligible to enroll and receive credit for an internship, students must either be majors or be concentrators in the department. Students are responsible for arranging their own internships in consultation with the faculty in their area of choice *before* preregistration for the semester in which the internship is planned to take place. To receive credit within this course, the internship must be unpaid. Students must follow the rules and procedures stated in the departmental internship form.

**THETR 4950 Honors Research Tutorial**

Fall or spring. 4 credits. Prerequisite: honors students in theatre.

First of a two-semester sequence (the second is THETR 4960) for seniors engaged in an honors project.

**THETR 4960 Honors Research Tutorial**

Fall or spring. 4 credits. Prerequisite: honors students in theatre.

Second of a two-semester sequence (the first is THETR 4950) for students engaged in an honors project.

**THETR 7210 Independent Study for Graduate Students in Theatre**

Fall and spring. 1–4 credits.

Independent study in theatre allows graduate students the opportunity to pursue special interests not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the course, must approve the student's program of study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study, which is available in 223 Schwartz Center.

**Film**

Faculty: A. Villarejo, D. Fredericksen (director of undergraduate studies in film), S. Haenni (on leave fall 2009), A. Hiss, L. Patti, M. Rivchin.

The study of film began in this department in the 1930s and continues to be based here. In the intervening years, however, it has also spread into a significant number of other departments in the College, including Africana studies, anthropology, Asian studies,

comparative literature, English, German studies, government, history, psychology, Romance studies, and FGSS. This proliferation of courses has been accompanied by a comparable proliferation of perspectives and faculty concerns, e.g., the relationship of national cinemas to national literatures and specific cultures, film's relationships to myth and ideology, the use of film as historical evidence, film's efficacy as a rhetorical medium, and film's contribution to perennial issues in aesthetics, the history of the arts, and studies in cognition. However, foundational courses in film production and in the history, theory, and criticism of film as an art are centered in this department.

This richness of courses and perspectives is matched by the ways in which students may make film the focus of their undergraduate studies. The three ways currently being used are: (1) majoring in film within the Department of Theatre, Film, and Dance; (2) constructing an individually tailored Independent Major in film (including the possibility of placing film in tandem with another medium or discipline); and (3) focusing on film as a College Scholar. Students interested in options 2 or 3 should consult both Don Fredericksen (director of undergraduate studies in film) and the director of the College Scholar Program or the director of the Independent Major program. Students interested in the first option should consult Don Fredericksen.

Students who do not wish to major in film may elect to minor in film under the new guidelines approved by the College of Arts and Sciences. Details of this new option are described below. If interested, consult with Don Fredericksen, director of undergraduate studies in film. In addition, students should be aware that the college has a five-course minor in visual studies, which can be taken independently of, or in conjunction with, a major in film. Students interested in the visual studies minor should contact the undergraduate coordinator, Jessica Smith, in the Department of Art History and Visual Studies.

### Film Major Requirements

The department's film major requires a total of 50 credits in film and related courses. Students should note that a number of film courses—including two required "core" courses: (FILM 3750 and 3760)—are offered in alternating years. This means that *students cannot fulfill the requirements for the major in less than two years* and that they should plan accordingly, in consultation with their major advisor. In particular, students must plan to be in residence at Cornell during the fall semesters of both their junior and senior years to take FILM 3750 and 3760. Within the "core" required courses, FILM 2740, Introduction to Film Analysis, is to be taken during the sophomore year. **Note: Prospective majors must earn a grade of B (not B-) or higher in FILM 2740 to be accepted into the major. Students may not enter the major until they have completed FILM 2740 in the fall semester of their sophomore year.**

Majors wishing to use the production courses in a substantial manner must plan carefully and work within certain limits. These courses are FILM 3240, 3770, 3830, 4220, 4780, and 4930. *Enrollment in each of these courses is limited by the nature of the work and by*

*facilities.* Enrollment in FILM 4220, 4770, 4780, and 4930 depends on the quality of previous work in FILM 3770 and/or 3830; enrollment is not guaranteed. Majors *without* a strong interest in production can complete the production requirement with one course: FILM 3770, after they have taken FILM 2740 in their sophomore year. The total credits in production courses cannot exceed 20 hours; this limit is strictly enforced.

#### 1. A core of *four* film courses:

**FILM 2740** Introduction to Film Analysis (offered every fall semester) 4

**[FILM 3750** History and Theory of Commercial Narrative Film (offered alternate fall semesters; next offered fall 2010 (prerequisite for film majors: FILM 2740) 4]

**FILM 3760** History and Theory of Documentary and Experimental Film (offered alternate fall semesters) (prerequisite for film majors: FILM 2740) 4

**FILM 3770** Introduction to 16mm and Digital Filmmaking (offered every semester) 4

#### 2. One of the following theatre courses:

**THEATR 2500** Fundamentals of Theatre Design/Technology (offered every semester) 4

**THEATR 2800** Introduction to Acting (offered every semester) 3

**THEATR 3980** Directing I (prerequisite: permission) (offered every fall semester) 3

#### 3. *Four* courses (15–16 credits) in film offered by Theatre, Film and Dance as below, or (with permission of advisor) by other departments:

**FILM 2640** Stardom (offered fall 2009)

**FILM 2650** Studies in Film Analysis: Hitchcock's Films (offered fall 2009) 4

**FILM 2760** Survey of American Film (offered alternate years; next offered spring 2010) 4

**ITAL 2950** Cinematic Eye of Italy 3

**FILM 3290** Political Theory and Cinema 4

**FILM 3330** Korean History, Society, and Film 3

**[FILM 3430** International Cinema (offered alternate years; next offered spring 2011) 3]

**[FILM 3440** American Film Melodrama (next offered 2010–2011) 4]

**FILM 3520** Short Cinema (offered alternate years; offered spring 2010) 4

**FILM 3690** Fast-Talking Dames and Sad Ladies: 1940s and Now (offered yearly; offered spring 2010)

**[FILM 3720** Archive Fever (offered alternate years; next offered fall 2010) 4]

**FILM 3790** Modern Documentary Film (offered alternate spring semesters; offered spring 2010) 4

**FILM 3830** Screenwriting (offered TBA) 4

**FILM 3901** Brazilian Cinema: 1960s to Present 4

**[FILM 4220** Cinematography (offered alternate years; next offered fall 2010) 3]

**ASIAN 4410** Chinese Film 4

**ASIAN 4436** Topics in Indian Film 4

**FILM 4550** History of Modern Polish Cinema (offered alternate years; offered fall 2009) 4

**FILM 4730** Film and Spiritual Questions (offered alternate spring semesters; offered spring 2010) 4

**[FILM 4740** Jung, Film, and the Process of Self-Knowledge (offered alternate years; next offered spring 2011) 4]

**[FILM 4750** Seminar in the Cinema I (offered most years; next offered fall 2010; topic varies; may be repeated for credit) 4]

**FILM 4760** Seminar in the Cinema II (offered spring 2010 and 2011; topic varies; may be repeated for credit) 4

**FILM 4780** Intermediate Film and Video Projects: Workshop (offered alternate years; next offered fall 2009) 4

**GOVT 4809** Politics of '70s Film 4

**FILM 4930** Advanced Film and Video Projects (offered every spring) 4

4. 15 credits of related course work inside or outside the Department of Theatre, Film and Dance, as approved by the major advisor. The courses chosen to fulfill this requirement should reinforce each major's particular interest in film and will not necessarily be film courses *per se*. For example, a student interested in the psychology of film, or in ethnographic film, or in film *vis-à-vis* intellectual or social history, or in film and social change will be encouraged to choose related course work in those areas.

5. Students must earn at least a B (not B-) in FILM 2740 to enter the major. In all subsequent courses used for the major a grade of C (not C-) must be achieved. Courses in which these minimums are not achieved must be repeated, if the student is to receive credit in the major.

6. Course work in production cannot exceed 20 credit hours.

### Film Minor

The Film Minor serves students in other majors who wish to undertake, and have noted on their transcripts, some substantial study in film. The one path excluded from the minor is the one in film production; in this regard the film minor differs from the theatre and dance minors. The film program is not able to accommodate further demands upon the current film production faculty, facilities, and equipment. It is the judgment of the film faculty that minors need to have a general knowledge of film analysis/theory and film history, thus the prescribed courses in requirements one and two. In addition film minors will choose three elective courses from history, theory, and criticism of film.

To be accepted into the film minor, please contact Don Fredericksen, director of undergraduate studies in film studies.

**Requirements:**

1. FILM 2740 Introduction to Film Analysis
2. Either FILM 3750, History and Theory of Narrative Film, or FILM 3760, History and Theory of Documentary and Experimental Film
3. Three additional film courses, chosen from the list of film courses suitable for satisfying requirement three in the film major, excluding—except in very special and limited cases—FILM 3770, Introduction to 16mm and Digital Filmmaking; FILM 4220, Cinematography; FILM 4780, Intermediate Film and Video Projects; and FILM 4930, Advanced Film and Video Projects. Freshman Writing Seminars focused on film cannot be used to satisfy this requirement.
4. To enter the minor, a student must earn a C or higher in FILM 2740. (To enter the film major a student must earn a B or higher in this course.)
5. The film minor students cannot be accommodated in the film production sequence (FILM 3770, 4220, 4780, and 4930), given current demands upon those courses by the film majors. This restriction does not presently apply to FILM 3830, Screenwriting, although were demand to overwhelm this course, it would have to be restricted as well.

For more information, visit our web site at [www.arts.cornell.edu/theatrearts/academics/film/FilmMinorRequirements.asp](http://www.arts.cornell.edu/theatrearts/academics/film/FilmMinorRequirements.asp) or go to 223 Schwartz Center for the Performing Arts.

**Computing in the Arts Undergraduate Minor**

A minor in Computing in the Arts with an emphasis on film is available both to film majors and to students majoring in other subjects. For more information, see "Computing in the Arts Undergraduate Minor" under "Departments, Programs and Courses" in the "College of Arts and Sciences" or [www.cis.cornell.edu/ComputingArts](http://www.cis.cornell.edu/ComputingArts).

**Honors**

Students who have maintained a GPA of 3.7 in their film major courses, and an average of 3.2 in all courses, may elect to work for honors in film during their senior year. They must consult with their advisor *in the spring of their junior year* about the honors program in film. Honors projects are possible in filmmaking, screenwriting, and film analysis (history, criticism, theory). Projects in filmmaking and screenwriting require a written analytical component related to the creative work.

**The Advanced Undergraduate Filmmaking Program**

Through FILM 4930 course work, the department offers advanced study in filmmaking to students who qualify on the basis of outstanding achievement in film studies and film production courses. Contact Marilyn Rivchin for details.

**Film Study Abroad**

The College of Arts and Sciences, through this department and in concert with a number of other American colleges and universities, offers up to a full year of study at the Paris Center for Critical Studies and, through the

center, at the University of Paris III. The center's film program is theoretical, critical, and historical. It is most useful to students whose major interest is in the academic study of film and serves as a complement to Cornell's film courses. Fluency in French is required. FILM 2740 and 3750 are prerequisites. Inquiries should be addressed to Professor Fredericksen, Cornell's liaison with the center.

Through the Cornell Abroad office, students have also recently studied film and filmmaking in England, Ireland, Australia, Argentina, and the Czech Republic.

**FILM 1512 Philosophy and Film (also PHIL 1512) (KCM-AS)**

Summer. 3 credits.

For description, see PHIL 1512.

**FILM 2650 Studies in Film Analysis: Hitchcock's Films (also ENGL/FGSS 2630) (LA-AS)**

Fall. 4 credits. L. Bogel.

For description, see ENGL 2630.

**FILM 2740 Introduction to Film Analysis: Meaning and Value (also FILM 6740, VISST 2174/6174) (LA-AS)**

Fall. 4 credits. Limited to 40 students.

Graduate students must enroll in FILM 6740. D. Fredericksen.

Intensive consideration of the ways films generate meaning and of the ways we attribute meaning and value to films. Discussion ranges over commercial narrative, art cinema, documentary, and personal film modes. Prospective film majors must enroll in their sophomore year.

**FILM 2760 Survey of American Film (also AMST 2760, VISST 2300) (LA-AS)**

Spring. 4 credits. Required film screenings; discussion once a week. S. Haenni.

For description, see AMST 2760.

**FILM 2850 Stardom (CA-AS)**

Fall. 4 credits. L. Patti.

From heavenly creatures to tabloid trash, this course will explore stardom in cinema, television, and new media. Framed by approaches from semiotics, psychoanalysis, economics, and cultural studies, we will examine histories and theories of stars and star systems, investigating the importance of aesthetic strategies (from three-point lighting to the close-up), technological innovations (from sound to high-definition), industrial formations (from United Artists to SAG), the mass media (from studio publications to online tabloids), and fandom (from autograph auctions to fan fiction). We will discuss Hollywood stardom in tandem with both other national star systems and the transnational circulation of stars. An emphasis on the importance of race and sexuality in the production and reception of stardom will guide our inquiries.

**[FILM 2930 Middle Eastern Cinema (also JWST/NES 2793, VISST 2193) @ (LA-AS)]**

Fall. 4 credits. Next offered 2010–2011. D. Starr.]

**[FILM 3240 Animation Workshop: Experimental and Traditional Methods (LA-AS)]**

Summer. 3 credits. Cost for equipment: \$150. Next offered 2010–2011. M. Tomlinson.

The art of animation involves many dimensions, including time and motion. This

course introduces students to the fundamentals of traditional animation and the mechanics used to capture the illusion of movement.]

**FILM 3250 Animation History and Practice (LA-AS)**

Summer. 3 credits. Limited to 12 students.

Equipment fee: \$150.00. M. Tomlinson. Beginning with the pre-history of animation, optical toys and magic lantern projections, and continuing through a century of animation history to contemporary work, this course investigates the history of animation from around the world, through a variety of hands-on production projects, as well as lectures, discussions, research, and screenings. Combining tactile and digital methods, students create weekly collaborative and individual animated films, incorporating lessons from the historical work studied.

**FILM 3290 Political Theory and Cinema (also COML 3300, GERST 3550, GOVT 3705) (CA-AS)**

Spring. 4 credits. G. Waite.

For description, see GERST 3550.

**[FILM 3430 Inter/National Cinema (CA-AS)]**

Spring. 3 credits. Offered alternate years;

next offered spring 2010–2011. L. Patti.

The terms transnational and global are frequently invoked to describe the contemporary internationalization of cinema. This course will analyze global cinema in relation to national cinemas.]

**[FILM 3440 American Film Melodrama (also AMST/ENGL 3440, FGSS 3450, VISST 3645) (LA-AS)]**

4 credits. Recommended: some background in film analysis. Offered alternate years; next offered 2010–2011. S. Haenni.

Melodramatic styles and themes from the early 20th century to the present; melodrama as a "mode of excess" which registers ideological contradictions and powerfully affects film audiences.]

**[FILM 3460 Film Noir (also AMST/VISST 3480) (LA-AS)]**

4 credits. Next offered 2011–2012.

For description, see AMST 3480.]

**FILM 3520 Short Cinema**

Spring. 4 credits. Offered alternate years. L. Patti.

This course will bring into dialogue a variety of contemporary commercial and experimental cinema and new media to explore the theoretical and historical boundaries of short cinema as a genre. We will watch cartoons, music videos, commercials, trailers, webisodes, DVD bonus features (including interviews and outtakes), youtube clips, cell phone films, Oscar-nominated shorts, and anthology films in order to map the broad terrain of short cinema. Readings will emphasize the industrial and technological underpinnings of short cinema and the commercial, critical, and popular reception of short cinema as we discuss the viability of theorizing short cinema as counter-cinema or minor cinema.

**FILM 3690 Fast-Talking Dames and Sad Ladies: 1940s and Now (also ENGL/FGSS 3690) (LA-AS)**

Spring. 4 credits. L. Bogel.

For description, see ENGL 3690.

**[FILM 3720 Archive Fever**

Fall. 4 credits. Next offered 2010–2011.  
L. Patti.

This course will examine archival institutions, theories, and practices in the preservation and circulation of American film and the role of distributors as archivists. We will then analyze found footage films and digitality.]

**[FILM 3750 History and Theory of the Commercial Narrative Film (also VISST 3175) (LA-AS)**

Fall. 4 credits. Prerequisite for film majors: FILM 2740. Offered alternate years; next offered 2010–2011. S. Haenni.

A survey of narrative cinema from around the world, with emphases on early narrative cinema, cinematic realism, interwar European modernist cinema, popular American film, post-World War II art cinema, and recent global cinema.]

**[FILM 3760 History and Theory of Documentary and Experimental Film (also VISST 3176) (LA-AS)**

Fall. 4 credits. Highly recommended: FILM 2740. Fee for screening expenses: \$10 (paid in class). Offered alternate years.  
A. Villarejo.

Analyzes canonical works in documentary film to World War II, and canonical works in the avant-garde/experimental/personal film tradition(s) in Europe and the United States from the 1920s to the present.

**[FILM 3770 Introduction to 16mm and Digital Filmmaking (LA-AS)**

Fall, spring. 4 credits. Limited to 12 students. Intended primarily for juniors and, in spring, second-semester sophomores (who may need to sign up a year or more in advance), with priority given to film majors. Prerequisite: FILM 2740 (or higher-level film studies course) and permission of instructor. Equipment fee: \$150 (paid in class). Average cost to each student for materials and processing is \$500. M. Rivchin.

Creative, hands-on production course in filmmaking, emphasizing the development of original ideas and the acquisition of basic technical skills in digital video and 16mm formats: cinematography, lighting, sound recording, and digital editing. Students complete several exercises and two short projects exploring narrative, documentary, experimental, or animation forms, and a final project, which is shown in a public, open-campus screening at the end of the semester.

**[FILM 3790 Modern Documentary Film (LA-AS)**

Spring. 4 credits. Recommended: previous completion of FILM 3760. Offered alternate years. D. Fredericksen.

An intensive consideration of canonical documentary films from 1945 to the present. Emphasis is on the documentary film as an artistic and rhetorical form with a distinct history and set of theoretical questions.

**[FILM 3830 Screenwriting (LA-AS)**

Fall and spring. 4 credits. Limited to 12 students. Prerequisite: completed application, writing sample, and permission of instructor. Students must go to 223 Schwartz Center to apply. Staff.

This course explores the fundamentals of traditional Hollywood and independent screenplays.

**[FILM 4220 Cinematography (LA-AS)**

Fall. 4 credits. Limited to 8 students. Pre- or corequisite to FILM 4930. Prerequisite: permission of instructor. Letter grades only. Equipment fee: \$150 (paid in class). Camera, lighting, and directing techniques, designed for students who have taken at least FILM 3770. Course may also include a section devoted to acting and directing for the camera (with up to six film students and six acting students); consult the instructor. Offered alternate years.  
M. Rivchin.

Students work in groups on a series of tests, short exercises, and scene projects using 16mm cameras, digital video cameras, HD camera movement apparatus, a range of lighting instruments, filters, and gels to expand their knowledge of the technical and aesthetic aspects of cinematography. When possible, the course will focus on acting and directing for the camera through scene work.

**[FILM 4550 History of Modern Polish Film (LA-AS)**

Fall. 4 credits. Prerequisite: some film analysis or European history course work. Offered alternate years. D. Fredericksen.

Analysis of Polish film from 1945 to the present, within the context of Poland's postwar history. Emphasis upon the ways Polish filmmakers dealt with the Soviet-imposed government and "political correctness" from 1944 to 1989.

**[FILM 4730 Film and Spiritual Questions (LA-AS)**

Spring. 4 credits. Limited to 20 students. Offered alternate years. D. Fredericksen.

The use of film as a medium for the expression of spiritual questions. Special attention is given to the work of Andrey Tarkovsky, the Russian film director and theorist.

**[FILM 4740 Jung, Film, and the Process of Self-Knowledge (LA-AS)**

Spring. 4 credits. Limited to 20 students. Offered alternate years; next offered 2010–2011. D. Fredericksen.

"Know thyself" is one of the oldest and most enduring imperatives of the human spirit. This seminar details the Jungian approach to this imperative and then tests its critical capacities with respect to films.]

**[FILM 4750 Seminar in Cinema I (also AMST 4750) (LA-AS)**

Fall. 4 credits. Next offered 2010–2011.  
D. Fredericksen.

Topic for fall 2010: Cinematic structures: narrative, "poetic," thematic. Focus on semiotic-structural and cognitive theories of cinematic narration, theories of non-narrative structures, and relationships between structures and spectator psychology.]

**[FILM 4760 Seminar in Cinema II (LA-AS)**

Spring. 4 credits.

Topic for spring 2010: European Cinema/Metropolitan Culture. At least since the formation of the European Union, but possibly much earlier, the very idea of a "European Cinema" (as distinct from the national cinema idea) has been fantasized about and nurtured through transnational funding initiatives. This course establishes the concept of "European cinema" from industrial, social, and aesthetic perspectives. It then tracks European cinema by looking at specific European cities. Case studies may include Europe's best-known metropolises—London, Paris, Berlin—but also

cities found on the periphery, such as Marseilles, Naples, Helsinki, Warsaw, or Moscow. Films will be drawn from a range of genres and periods, from the famous "city symphonies" of the 1920s to the Eurothriller and the contemporary banlieu films. Topics may include the changing nature of the old European city, the relationship between built and cinematic form, migration and cosmopolitanism, class and gender, and will be framed by historical and theoretical readings. Topic for spring 2011 (Fredericksen): Film Eco-criticism: Human/Nature/Film.

**[FILM 4780 Intermediate Film and Video Projects: Narrative Workshop (LA-AS)**

Fall. 4 credits. Limited to 8 students. Intended for juniors and seniors, with priority given to film majors. Prerequisites: FILM 3770 as minimum in production; priority given to those who have also taken FILM 3830: THETR 3980 or FILM 4220, and permission of instructor based on proposals. Equipment fee: \$150 (paid in class). Digital video projects costs: \$100–\$200. Offered alternate years. M. Rivchin.

Intensive course in digital video production (with 16mm film as an option) in which each student develops a significant, original narrative script or documentary or experimental project that he or she then directs, shoots in crews, and edits. Readings, discussions, and exercises are designed to increase the student's knowledge and practice of screenwriting or other pre-visualization methods; pre-production, and practice of directing; cinematography, lighting, sound recording, and more advanced digital editing techniques. Completed projects are publicly screened at the end of the semester.

**[FILM 4850 Undergraduate Internship**

Fall or summer. 1–3 credits.

To be eligible to enroll and receive credit for an internship, students must either be majors or minors in the department. Students are responsible for arranging their own internships. To receive credit within the course, the internship must be unpaid. Students must follow the rules and procedures stated on the departmental internship form.

**[FILM 4930 Advanced Film and Video Projects (LA-AS)**

Spring. 4 credits. Limited to 6–8 students. Intended for seniors, with priority given to film majors. Permission only. Prerequisite: minimum FILM 3770, priority given to those who have taken 3240, 4220, or 4780. Recommended: FILM 3830 and THETR 3980. Equipment fee: \$150. Project costs: \$100–300 in digital video. Offered every spring. M. Rivchin.

Intensive filmmaking course in which students focus on developing and producing a single, already-proposed (15–25 min.) digital video project over the semester (HD and 16mm are options as well). Students direct and edit their own (or collaborative) projects working in crews for digital narrative films or documentaries, or individually for experimental or animation work, and in small groups for technical exercises and assisting others in projects. Readings, revision; directing; scene breakdowns, auditions, and casting; cinematography, lighting, location recording, digital video cameras; sound and editing techniques; and digital editing (Final Cut Pro, Color AVID, ProTools etc...).

**FILM 6740 Introduction to Film Analysis: Meaning and Value (also FILM 2740, VISST 2174/6174)**

Fall. 4 credits. Limited to 10 graduate students. D. Fredericksen.

Intrinsic consideration of the ways films generate meaning and of the ways we attribute meaning and value to films. Discussion ranges over commercial narrative, documentary, and personal film modes. Graduate students who intend to teach film at the undergraduate level are especially welcome. In addition to full participation in the work of FILM 2740, graduate students read and discuss primary sources in film theory in weekly group tutorials.

**FILM 6750 History and Theory of the Commercial Narrative Film**

Fall. 4 credits. Prerequisite for film majors FILM 2740. Fee for screening expenses: \$10 (paid in class). Offered alternate years; next offered 2010–2011. S. Haenni.

A survey of narrative cinema from around the world, with emphases on early narrative cinema, cinematic realism, interwar European modernist cinema, popular American film, post–World War II art cinema, and recent global cinema.

**FILM 6760 History and Theory of Documentary and Experimental Film**

Fall. 4 credits. Highly recommended: FILM 2740. Fee for screening expenses: \$10 (paid in class). Offered alternate years. A. Villarejo.

Analyzes canonical works in documentary film to World War II, and canonical works in the avant-garde/experimental/personal film tradition(s) in Europe and the United States from the 1920s to the present.

**FILM 7220 Independent Study in Film for Graduate Students**

Fall or spring. 1–4 credits. Staff.

**Related Courses in other Departments**

Not all courses are offered in 2009–2010. Consult instructors.

**AMST 2020 Popular Culture in the United States, 1945 to the Present**

Spring. 4 credits. Altschuler.

**AMST 4306 American Art and the Machine**

Spring. 4 credits. Meixner.

**ANTHR 2432 Media, Culture, and Society**

Fall. 3 credits. Boyer.

**ASIAN 3387 Literature and Film of South Asia**

Fall. 4 credits.

**COMM 1300 Visual Communication**

Spring. 3 credits. Scherer.

**COMM 3490 Media Technologies**

Spring. 3 credits. Gillespie.

**COMM 4220 Psychology of Television**

Fall. 3 credits. Shapiro.

**ENGL 3702 Desire and Cinema**

Spring. 4 credits. Hansen.

**ENGL 4690 Paranoid Style in Contemporary American Fiction and Film**

Spring. 4 credits. Attel.

**ENGL 4702 Documentary Record, Writing, and Film**

Fall. 4 credits. Braddock.

**ENGL 6600 Cinematic Desire**

Spring. 4 credits. Hansen.

**FGSS 3590 Consuming Passions: Media, Space, and the Body**

Spring. 3 credits. Jeffer.

**MUSIC 3421 Scoring the Moving Image Using Digital Technology**

Spring. 4 credits. Ernste.

**PSYCH 3050 Visual Perception**

Fall. 4 credits. Cutting.

**VISST 2000 Introduction to Visual Studies**

Spring. 4 credits. Fernandez.

**Dance**

Faculty: J. Chu (on leave spring 2010), A. Fogelsanger (director of undergraduate studies in dance), E. Intemann, J. Kovar (on leave fall 2009), J. Morgenroth (on leave fall 2009), J. Self, B. Suber.

The dance program offers courses in dance technique, improvisation, composition, performance, anatomical analysis of movement, dance technology, music for dance, and the history, theory, and criticism of dance. Technique courses include introductory dance technique, modern dance at three levels, and Western classical dance at three levels. (Other dance forms, such as Indian dance, and capoeira, are offered periodically. A variety of courses in other dance idioms, taken through the Physical Education program, supplement these offerings.) Technique courses develop strength, flexibility, coordination, and the ability to perceive and reproduce phrases of dance movement with clarity of rhythm, body design, and expression. The more advanced courses require the ability to perform complex phrases in various styles. Students may earn up to 16 academic credits (2 each semester) in technique courses. Students may also satisfy the physical education requirement by taking dance technique courses or other movement courses in the dance program. Students taking technique for academic credit must also register through their own colleges. The schedule for all dance technique courses is available in the main office of the Sheila W. and Richard J. Schwartz Center for the Performing Arts.

The faculty offer rehearsal and performance workshops in which they choreograph and rehearse original dances, performed in public concert. Admission to rehearsal and performance courses is by permission. Students may receive one academic credit per semester (S–U grades only) when performing in student–faculty concerts by registering for DANCE 1250.

**Major in Dance Requirements**

Prerequisites: 2 credits in category I below and one course in category II below.

Prerequisites count toward the 40 credits fulfilling the major.

The major: 40 credits (toward which the prerequisites for the major count) are required of all students majoring in dance as follows:

- I. 6 credits: six 1-credit movement courses chosen from Dance Technique (DANCE 1200, 2200, 2210, 2220, 2240, 3210, 3220, 4210, and 4220), Explorations (DANCE 2410, 3410), Improvisation (DANCE 2480),

Indian Dance (1320), World Dance Techniques (1300), and other courses approved by the dance faculty. The 6 credits must include at least 2 from Dance Technique courses, and at least 2 from Explorations and Improvisation courses. Any two of these courses taken to satisfy the university's Physical Education requirement may be counted toward the major, thus decreasing the number of academic credits possibly to as low as 38. Movement courses taken for 0 academic credits do not count towards the major.

- II. 14 credits: Dance composition (DANCE 2500 and 3500) and history/theory (DANCE 3141 and 4080 or other 4-credit, 4000-level DANCE seminar course).
- III. 2 credits: 1 credit of performance (DANCE 1250) and 1 credit of production (DANCE 1610, 1630, 2610, or 2630).
- IV. 18 credits: selected from Dance and related fields, including: at most two additional 1-credit movement courses beyond those required in category I; at most 4 credits in DANCE 1250, 1610, 1630, 2610, 2630, and 3240 beyond those required in category III; and at most two courses outside of Dance, which may include courses on sound, music, light, world movement forms, design, performance and visual studies, and must be approved by the dance faculty. Otherwise any Dance courses may be used to satisfy category IV.

In all courses used for the dance major, a grade of C (not C–) must be achieved. Courses in which this minimum is not achieved must be repeated if the student is to receive credit in the major.

A partial list of courses from outside Dance that may be used to satisfy part IV of the major requirements includes MUSIC 1105, 1201, 1202, 1301, 1302, and 2101; and THETR 2500 and 3840.

**Honors**

The honors program in dance is intended for students who have shown exceptional accomplishment in the dance major, and it results in the awarding of one of three levels of honors with the degree: cum laude, magna cum laude, or summa cum laude. To be part of the honors program students must maintain a GPA of 3.5 in classes for the dance major and an average of 3.0 in all courses. Qualified students are invited to become candidates by the faculty early in the second semester of their junior years. As soon as possible thereafter, each honors candidate forms a committee of three dance faculty members to guide and evaluate the honors work. Candidates are encouraged to formulate a program based on interdisciplinary work, in which case the committee must include a faculty member from the relevant department in place of one from DANCE.

Candidates propose projects that will allow them to demonstrate their abilities in scholarship and/or practice, culminating in a public presentation of a thesis or creative work (demonstrating choreography, performance, or some other aspect of dance). A performance-oriented project requires a written analytical component related to the creative work, setting it in a historical, theoretical, or aesthetic context. (The paper is not simply a recounting of how a student did

the project.) The candidate must distribute a proposal to the committee members before the end of the junior year. Students planning a production component may show work on one of the department concerts, or may produce their own concerts. In this latter case they must inform the production manager of the Department of Theatre, Film and Dance by April 1 of the junior year as there is a limited number of slots for concerts within the Schwartz Center. A student not accepted for one of these slots will have to come up with an alternative proposal. Limited technical support will be available.

Although the honors committees, and in particular their chairs, are responsible for supervising candidates' honors programs and keeping them on schedule, candidates are required to take initiative and show independence in the planning and realizing of their proposed projects, beginning promptly at the start of the senior year on the 8 credits of work expected to be spread evenly throughout the two semesters. Candidates enroll in DANCE 4050-4060 with the chairs of the honors committees as instructors, and must schedule a full committee meeting at the beginning of the senior year and arrange to meet with their chairs on a regular basis thereafter, and with other committee members as necessary. After the public presentation in the spring, comprehensive examinations administered by the candidates' committees are held not later than the first day of finals. The level of honors conferred is based primarily on the candidates' performance in the honors programs, and secondarily on their overall record in departmental courses and activities.

#### Dance Minor

The Dance Minor is open to any student in the university, including those outside the College of Arts and Sciences, with the approval of the Director of Undergraduate Studies in Dance.

1. DANCE 2500 Beginning Composition (3 credits).
2. DANCE 3141 History (4 credits).
3. Other DANCE courses totaling a minimum 11 credits.

In all courses used for the Dance Minor that offer letter grades, a grade of C (not C-) must be achieved. Courses in which this minimum is not achieved must be repeated if the student is to receive credit in the Minor. For additional information please go to 223 Schwartz Center.

#### Computing in the Arts Undergraduate Minor

A minor in Computing in the Arts with an emphasis on dance is available both to dance majors and to students majoring in other subjects. For more information, see "Computing in the Arts Undergraduate Minor" under "Departments, Programs and Courses" in the "College of Arts and Sciences," or contact the Director of Undergraduate Studies in Dance, [danceprogram@cornell.edu](mailto:danceprogram@cornell.edu). Information is also online at [www.cis.cornell.edu/ComputingArts](http://www.cis.cornell.edu/ComputingArts).

#### Theatre, Film and Dance Summer Study in Rome and/or Paris/Dublin

Many of the dance courses are also offered during a summer program in Rome, Paris, and Dublin. For more information see [www.arts.cornell.edu/theatrearts/academics/dance/](http://www.arts.cornell.edu/theatrearts/academics/dance/)

[roma2.pdf](#), or contact the program director, Byron Suber, at [pbs6@cornell.edu](mailto:pbs6@cornell.edu).

#### Dance Technique

Students may register for any Western dance technique course (DANCE 1200, 2200, 2210, 2220, 2240, 3210, 3220, 4210, and 4220) for 1 academic credit, with a limit of 2 credits per semester and 16 credits total. That is, in a single semester students may take at most two 1-credit dance technique courses. All these courses may be repeated for credit, and students will usually be placed in a given course for at least two semesters.

Dance Improvisation (DANCE 2480), Explorations in Movement and Performance (DANCE 2410), World Dance Techniques (DANCE 1300), and Indian Dance (DANCE 1320) may be taken for 1 academic credit, which does not count as part of the 2 credit per semester and 16 credits total limit above.

Students also have the option to receive physical education (PE) credit for most of the courses above to satisfy the university's physical education requirement. Students may not get Dance and PE credit simultaneously for the same course.

The courses Dance Technique I (DANCE 1200), World Dance Techniques (DANCE 1300), Dance Improvisation (DANCE 2430), Explorations in Movement and Performance (DANCE 2410), and Indian Dance (DANCE 1320) are introductory courses open to all students. Students registering in Dance may pre-enroll, enroll online, or sign up with the Department of Theatre, Film, and Dance registrar in 223 Schwartz Center before the end of the add period; they will need a drop/add slip. Students registering in PE may pre-enroll, or add during the one- or two-day PE registration before the first day of classes; afterward, registration is not allowed.

The nonintroductory dance technique courses (DANCE 2200, 2210, 2220, 2240, 3210, 3220, 4210, and 4220) allow online pre-enrollment and online enrollment, but the instructor will ultimately use his or her own discretion to determine the right classes for a student to attend. All students, and new students in particular, should be prepared for the possibility of being asked to switch courses during the first few weeks of the semester.

The advanced dance technique courses (DANCE 2240, 3210, 3220, 4210, and 4220) may be taken with an additional 1-credit academic component, Writing Dance Criticism (DANCE 3240). Students may also receive credit for performing in two ways, by being cast in a faculty-choreographed dance (DANCE 1250), and by dancing in student-choreographed works made for composition courses (DANCE 1500). Any two 1-credit dance courses may be aggregated to count as one-half course for the purpose of satisfying the College of Arts and Sciences 34-course requirement. They do not satisfy a distribution requirement.

#### DANCE 1200 Dance Technique I (also PE 1180)

Fall and spring. 0 to 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. Fall, J. Chu; spring, B. Suber.

Entry-level class. Covers the fundamentals of elementary dance training. Movement sequences focusing on rhythm, placement, and vitality of performance through an anatomically sound dance technique.

#### DANCE 1250 Dance Rehearsal and Performance

Fall, spring, and summer. 1 credit. Students must register for course in semester in which credit is earned; requests for retroactive credit are not honored. Prerequisite: students cast in faculty-choreographed dances. Students may add this course only after they have been assigned roles. S-U grades only. Faculty. Includes the study, development, and performance of roles in departmental dance productions.

#### DANCE 1320 Indian Classical Dance (also PE 1190)

Spring. 1 credit. D. Bor.  
For description, see PE 1190.

#### [DANCE 2200 Dance Technique II (also PE 1181)]

Fall. 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. Next offered 2010-2011. J. Self.

Introductory dance technique intended for students with some dance training. Material covered includes attention to rhythm, design, and movement expression.]

#### [DANCE 2210 Dance Technique II/Classical (also PE 1182)]

Spring. 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. Next offered 2010-2011. B. Suber.

Introductory Western classical technique intended for students with some dance training. Includes basic barre and centre work focusing on presence and presentation.]

#### DANCE 2220 Dance Technique II/Modern (also PE 1183)

Fall, spring, and summer. 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. Fall, B. Suber; spring, J. Kovar.

Introductory modern technique intended for students with some dance training. Material covered includes specific spinal and center work with attention to rhythm, design, and movement expression.

#### [DANCE 2240 Dance Technique Workshop (also PE 1188, VISST 2540)]

Spring and summer. 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. Requirements include attendance at performances with written responses. S-U grades only. Next offered 2010-2011. Spring, J. Kovar; summer, B. Suber and J. Chu.

This course will take a journey through movement using music as its driving force. Beginners and those with prior dance experience are welcome.]

#### DANCE 2410 Explorations in Movement and Performance (also PE 1191)

Fall. 1 credit. Limited to 16 students. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. J. Self.

A physically demanding exploration into various movement realms. Specific subjects covered are genderized movement, erotic power, spiritual power, ritual, and performance. Techniques include extensive use of breath, animal movement, improvisation, and group games. This course requires an eagerness to investigate the nature

of performance and explore unfamiliar territory in movement.

**DANCE 2430 Hip-Hop, Hollywood, and Home Movies: Exploring Movement and Media (also VISST 2430) (LA-AS)**

Fall and summer. 3 credits. Permission of instructor. Requirements include attendance at performances with written responses, selected readings, and home-movie production. Letter grades. Letter grades. J. Self.

This course is a laboratory for generating and exploring contemporary dance forms. Monday sessions are devoted to viewing media and discussion. We will be looking at early B-boy films, recent dance-battle documentaries, classic dance clips from Hollywood films, and other related pieces (Black Dance, Show Dance, Art Dance). Wednesday is a laboratory for trying out movements and creating simple dance/music videos (home-movies). This course will be of special value for choreographers using popular dance forms and those interested in the history of popular culture. Everyone must be willing and able to improvise dance moves, teach classmates and exchange movement ideas.

**[DANCE 2450 Public Voice and Civic Gesture (also THETR 2360)]**

Fall and summer. 1 credit. Next offered 2010–2011. B. Suber.

This course combines acting and movement techniques encouraging process-oriented work.]

**DANCE 2480 Dance Improvisation**

Spring and summer. 1 credit; may be repeated. Limited to 12 students. Attendance at dance concerts required. S–U grades only. A. Fogelsanger.

When the body knows when, where, and how to move without prior direction, we call that improvisation. This course coaxes inspiration, seeking to make it reliable and to keep it surprising. It offers the possibility of “training” one’s movement instincts to respond relevantly and with spontaneity. Solo and group forms are covered. Live musical accompaniment.

**DANCE 3210 Dance Technique III/Classical (also PE 1184)**

Fall, spring, and summer. 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S–U grades only. B. Suber. Intermediate Western classical technique. Work is done on strengthening the body through a movement technique emphasizing presence and musicality based on harmonic muscular control.

**DANCE 3220 Dance Technique III/Modern (also PE 1185)**

Fall, spring, and summer. 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S–U grades only. Fall, J. Self; spring, J. Morgenroth; summer, B. Suber and J. Chu.

Intermediate modern technique focusing on rhythm, placement, and phrasing for students who are prepared to refine the skills of dancing. Students are challenged by complex phrases and musicality.

**DANCE 3240 Writing Dance Criticism**

Fall and spring. 1 credit; may be repeated. Corequisite: DANCE 2240, 3210, 3220, 4210, or 4220. Attendance at two or three concerts required. Fall, J. Chu, B. Suber, or J. Self; spring, J. Self, B. Suber, and J. Morgenroth.

Dance criticism for incorporation with technique. Topics rotate depending on instructor, class focus, and relevance to guest dance companies. Attendance at two or three concerts required (same as for dance technique), additional readings and/or viewing of recorded performances as assigned by instructor, and three five- to seven-page analytic papers.

**[DANCE 3250 Repertory]**

Spring. 1 credit. Prerequisite: permission of instructor. Attendance at dance performances required. Next offered 2010–2011. J. Chu.

Reconstructs a dance by an important modern dance choreographer. Through a close examination of the composition process, and with readings, the course studies the historical and aesthetic role of this work and its continued influence today.]

**[DANCE 3410 Explorations in Movement and Performance II: Masculine, Feminine, or Neutral]**

Spring. 1 credit. Limited to 16 students. Prerequisite: DANCE 2410, 2480, or permission of instructor. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S–U grades only. Next offered 2010–2011. J. Self.

Continues themes from Explorations in Movement and Performance (DANCE 2410), with special emphasis on the differences and similarities between “masculine” or “feminine” expressions in movement and performance.]

**DANCE 4210 Dance Technique IV/Classical (also PE 1186, VISST 4210)**

Fall and spring. 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S–U grades only. B. Suber.

Advanced and pre-professional Western classical. A continuation of and supplement to DANCE 3210.

**DANCE 4220 Dance Technique IV/Modern (also PE 1187, VISST 4220)**

Fall and spring. 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S–U grades only. Fall, J. Chu; spring, J. Self.

Advanced and pre-professional Modern technique. A continuation of and supplement to DANCE 3220.

**DANCE 4290 Dance Technique in New York City**

Fall and spring. 1–2 credits. Students take DANCE 4290 during the semester they participate in the Urban Semester Program offered by the College of Human Ecology, and in addition to the 15 credits taken for that program. S–U grades only. Dance faculty.

Allows a student to receive up to 2 credits for taking professional dance technique courses while in residence in New York City. The semester before participating in the Urban Semester Program, the student writes a proposal under the guidance of a member of the dance faculty detailing the dance classes, dance teachers, and dance institutions which the student plans to include in a regular

program of dance technique. While the proposal may be revised during the semester in residence in New York, the dance faculty adviser must approve any changes. Credit will not be given retroactively.

**DANCE 4399 Early Dance (also MUSIC 4511)**

Fall. 1 credit. R. Harris-Warrick. For description, see MUSIC 4511.

**Dance Composition**

**DANCE 2500 Beginning Dance Composition (also VISST 2511) (LA-AS)**

Fall, spring, and summer. 3 credits. Attendance at dance concerts required. Fall, B. Suber; spring, J. Self; summer, B. Suber, J. Chu, and J. Kovar.

Weekly assignments in basic elements of choreography. Students compose and present short studies that are discussed and reworked. Problems are defined and explored through class improvisations. Informal showing at end of semester. Includes informal showing of work.

**DANCE 3500 Intermediate Dance Composition I (LA-AS)**

Fall, spring, and summer. 3 credits. Prerequisite: DANCE 2500. Fall, B. Suber; spring, J. Self; summer, B. Suber, J. Chu, and J. Kovar.

Intermediate choreographic projects are critiqued in progress by faculty and peers. Consideration of design problems in costuming and lighting. For full description, see DANCE 2500.

**DANCE 3510 Intermediate Dance Composition II (LA-AS)**

Fall, spring, and summer. 3 credits. Prerequisite: DANCE 3500. Co- or prerequisite: DANCE 3530. Attendance at dance concerts required. Fall, B. Suber; spring, J. Self; summer, B. Suber, J. Chu, and J. Kovar.

Continuation of DANCE 3500. For full description, see DANCE 2500.

**DANCE 3530 Music and Choreography (also MUSIC 4512) (LA-AS)**

Fall. 3 credits. Attendance at dance concerts and music concerts required. A. Fogelsanger.

Intended to expose students to music they probably have not heard and are unlikely to seek out on their own, particularly contemporary “classical” music and music used in modern concert dance; to mark out the possible relationships between music and dance when combined in concert; and to pull apart the compositional construction of musical pieces to consider what musical structuring ideas might be profitably applied by choreographers to making dances. The course also considers examples from film and the plastic arts, provides students with some experience making sound and movement, and includes discussion of and writing about concerts, and audio and video recordings. Reading topics include criticism and aesthetics of dance, music, and the arts in general, in particular concentrating on counterpoint, minimalism, improvisation, and polystylism.

**DANCE 4010 Senior Project in Dance**

Fall and spring. 3 credits; students receive grade when DANCE 4020 is completed. Prerequisite: DANCE 3510; senior dance majors. *NOTE: This course is being phased out and replaced by DANCE 4011 Advanced Project in Dance. Open only to students graduating by May 2010.*

First of a two-semester sequence (the second is DANCE 4020) for senior dance majors. Students create a project in choreography and performance, dance, film or video, dance pedagogy, or other appropriate area agreed on with their senior project advisor and committee. In addition, there is a 15-page paper that expands their work into a historical, theoretical, or aesthetic context. For guidelines see the director of undergraduate studies in dance.

**DANCE 4011 Advanced Project in Dance**

Fall and spring. 4-6 credits, variable. Students create a dance project. Possibilities include a choreographic project for performance/presentation, community performance, site-specific work, interdisciplinary collaboration, community teaching, conference organizing, or other proposals. The student chooses a project adviser, who need not be the student's academic adviser. A proposal is due April 1 if the project will take place in the fall and due November 1 if the project will take place in the spring.

**DANCE 4020 Senior Project in Dance II**

Fall or spring. 3 credits. Prerequisite: DANCE 4010. *NOTE: This course is being phased out and replaced by DANCE 4011 Advanced Project in Dance. Open only to students graduating by May 2010.*

Second of a two-semester sequence (the first is DANCE 4010) for senior dance majors.

**DANCE 4500 Advanced Dance Composition I (LA-AS)**

Fall, spring, and summer. 3 credits. Prerequisite: DANCE 3510. Attendance at dance concerts required. Fall, B. Suber; spring, J. Self; summer, J. Chu, B. Suber, and J. Kovar.

Students work on advanced choreographic problems, to be presented in performance. Work in progress is critiqued by faculty members on a regular basis. For full description, see DANCE 2500.

**DANCE 4510 Advanced Dance Composition II (LA-AS)**

Fall, spring, and summer. 3 credits. Prerequisite: DANCE 4500. Attendance at dance concerts required. Fall, B. Suber; spring, J. Self; summer, J. Chu, B. Suber, and J. Kovar.

Continuation of DANCE 4500. For full description, see DANCE 2500.

**History, Criticism, and Theory****[DANCE 3120 The Moving Body: Form and Function (PBS supplementary list)]**

Fall. 4 credits. Next offered 2010-2011. J. Morgenroth.

Examines the bodily systems involved in human movement with particular attention to dance movement. Readings in texts on human anatomy, physiology, and kinesiology.]

**DANCE 3141 History: The Body in Performance (LA-AS)**

Fall. 4 credits. Prerequisites: readings, viewing of videos, and attendance at live performances. Letter grades only. J. Chu.

How does the social production of dance reflect its historical context? What is the meaning of the "beautiful" in dance? Beginning with 16th-century court dances, we will explore how aesthetics have been aligned both with and against politics in various periods and genres of the performing body, looking at dance as insiders' diplomacy and outsiders' rebellion. Is postmodern dance a discourse of its past? What is the contemporary relationship among African, European, and stubbornly American traditions? This course is designed to promote a critical appreciation of dance, its values and its ambitions, by developing an historical and cultural understanding.

**DANCE 4000 Paper in Dance**

Fall and spring. 4 credits. Prerequisite: DANCE 4080. Attendance at dance concerts is required.

Under faculty direction, the students write a paper in dance history, criticism, or theory.

**DANCE 4080 Seminar in Dance Studies (also VISST 4580) (CA-AS)**

Spring and summer. 4 credits. Limited to 15 students. Spring, J. Morgenroth; summer, B. Suber and J. Chu.

Topic for spring 2010: Movement in Time and Space

According to modern science, we live in a space-time continuum. The visual arts, including dance, painting, sculpture, film, and theater, manipulate time and space in order to situate their work in space-times of their own devising. While the arts and sciences are often thought of as existing in separate worlds, practitioners of each realm are exploring similar questions within their own modes of inquiry. Thinking about dance performance will be pivotal in this course, looking at the ways in which artists in the 20th and 21st centuries have warped traditional notions of time and space. We will also consider how scientific theories about time and space have affected the arts. Viewing of selections from dances by Merce Cunningham, Anna Halprin, Trisha Brown, Elizabeth Streb, Eiko & Koma, and others. Two papers and an individual or paired project that will ask that you reexamine and renew your assumptions about time and space.

Topic for summer 2010: Performativity in Paris

This course is a critical survey of the history of Western concert dance beginning in the 16th century into the court of Louis XIV, the early 19th-century Romantic period, the Franco-Russian Diaghilev Period, and 20th-century modern dance, including the work of Josephine Baker and the African American presence in Paris and 21st-century form of martial art/dance called Parkour, developed in the *banlieu* in the periphery of Paris. Special attention is paid to connections between the body and material space and place in the built domain of urban Paris. Dance, architecture, and urban development will be studied in tandem as reflections of western ideology looking to see how these art forms have contributed to, perpetuated, or confronted issues of classicism, modernity, race, class, gender, sexuality, and political and social power.

**[DANCE 4089 Formalist Aesthetics of Modernism and Postmodernism in Music, Dance, and Painting]**

Spring. 4 credits. Limited to 15 students.

Next offered 2010-2011. A. Fogelsanger. This seminar examines the formalist side of the aesthetics of modernism from the idea of absolute music and the rise of abstraction in painting, through atonality, modern dance, minimalism, and postmodernism.]

**Interdisciplinary Courses****DANCE 1540 Computing in the Arts (also CS/CIS/ENGRI 1610, FILM 1750, MUSIC 1465, PSYCH 1650) (LA-AS)**

Fall. 3 credits. G. Bailey.

For description, see CS 1610.

**[DANCE 2580 Courses of Action: Producing Performance Locally, Regionally, Globally (LA-AS)]**

Fall. 3 credits. Next offered 2010-2011. J. Self.

This course is a hands-on, pro-active course devoted to studying current performance venues on the Cornell campus, and in Tompkins County, New York State, and beyond.]

**DANCE 3550 Techno Soma Kinesics: Repositioning the Performing Body in Space through the Lenses of Digital Media (LA-AS)**

Spring. 4 credits. B. Suber.

Works to expand the specific aesthetics of live performance (music, theatre, and dance) and traditional technological media presentation (sound, film, and video) through the use of emerging digital technologies. Included in the process is the analysis of built environments that both inspire and are designed to be inhabited by these disciplines. This studio course explores the resulting neo-performance forms being created within the range of digital media processing; such as gallery installations, multimedia dance-theatre, personal interactive media (games and digital art) and web projects. Computer-imaging and sound-production programs are examined and used in the class work (human form-animation software [Life Forms], vocal recording and digital editing [Protools and Hyperprism], digital-imaging tools [Photoshop, Final Cut Pro, Flash, Dreamweaver, and Director]. The new context of digital performance raises questions concerning the use of traditional lighting, set, costume, and sound-design techniques that are examined as they are repositioned by digital-translation tools with the goal of creating experimental and/or conceptual multimedia performance and/or installation work. Theoretical texts on dance and theatrical performance, film studies, the dynamic social body, architecture, and digital technology are also used to support conceptual creative work.

**[DANCE 3560 Interactive Performance Technology (also MUSIC 3441, THETR 3690) (LA-AS)]**

Fall. 3 credits. Laptop computer and MAX/MSP software and Jitter software required, see [www.cycling74.com](http://www.cycling74.com) for student software pricing. Lab performance at end of semester. Next offered 2010-2011.

W. Cross and A. Fogelsanger.

For description, see THETR 3690.]

**[DANCE 3570 Media Arts Studio I (also FILM/MUSIC 3910) (LA-AS)]**

Fall or spring. 3 credits. Prerequisite: permission of instructor and junior standing, minimum FILM 2770 or 3770, or DANCE 3550. Equipment fee: \$50 (paid in class). Next offered 2010–2011. Participating faculty include M. Rivchin, film; B. Suber, dance.

A collaborative interdisciplinary studio course in a variety of digital and electronic media, including art, architecture, music, dance, film, and video.]

**DANCE 3580 Ancient/Modern Corporealities (also FILM/ITAL 3270, VISST 3210)**

Summer. 4 credits. B. Suber, J. Rhodes, and B. Milles.

Held in Rome, this course examines that modern city as it interfaces with its past, by analyzing corporeal/spatial epistemologies through the analyses of films that used Rome as a location, visiting those location sites that extend from the historic center to as far as the suburb LEUR. Topics include examination of the ways in which class relates to social and public space and urban space as performance. Additional course work in film production, performance, and writing allows students to re-inscribe their spatial/corporeal experiences into an alternative exhibition space of the city street or the written page. In addition, each student will be required to produce formal textual documentation and full textual analyses of this process and final performance, installation, or text-based product.

**DANCE 3590 Music, Dance, and Light (also THETR 3190, VISST 3519) (LA-AS)**

Spring. 3 credits. Attendance at dance concerts and music concerts required. E. Intemann and A. Fogelsanger.

Artistic values, parameters, and concerns of music (sound design), dance, and lighting design are compared and contrasted, and the combination of design elements is analyzed in contemporary dance.

**[DANCE 4377 Ritual Puppetry in a Global Context (also ASIAN/RELST 4444)]**

Spring. 4 credits. Next offered 2010–2011. J. M. Law.]

**DANCE 4550 Techno Soma Kinesics II: Repositioning the Performing Body in Space through the Lenses of Digital Media (LA-AS)**

Spring. 4 credits. B. Suber.

Continuation of DANCE 3550. DANCE 4550 expands on principles using more complex and interactive software using MAX/MSP and Jitter, Director, DVD Studio Pro, and Dreamweaver.

**DANCE 4848 Communities in Multicultural Practice (also HE 4800)**

Fall and spring. 6 credits. S. Beck.

This course is the same as HE 4800 but the DANCE number is for DANCE students from the Department of Theatre, Film and Dance who wish to participate in the Urban Semester Program, or for other students in the College of Arts and Sciences who wish to receive credit within the college. Students from DANCE will, whenever possible, have their community service assignments within appropriate dance organizations or activities. For these purposes, the instructor will be assisted by various DANCE faculty and alumni.

**DANCE 4849 Multicultural Practice (also HE 4900)**

Fall and spring. 6 credits. S. Beck.

This course is the same as HE 4900 but the DANCE number is for DANCE students from the Department of Theatre, Film and Dance who wish to participate in the Urban Semester Program, or for other students in the College of Arts and Sciences who wish to receive credit within the college. Students from DANCE will, whenever possible, have their internship assignments within appropriate dance organizations or activities. For these purposes, the instructor will be assisted by various DANCE faculty and alumni.

**Production****DANCE 1610 Dance Production Laboratory I**

Fall and spring. 1–3 credits; may be repeated for credit. Prerequisite: permission of instructor. No experience required. Orientation meeting at 7:30 p.m. first Tuesday of classes each semester in Kiplinger Theatre at Schwartz Center. P. Lillard.

Provides practical experiences in running stage crew or dresser crew for dance.

**DANCE 1630 Dance Stage Management Production Laboratory I**

Fall and spring. 1–2 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 p.m. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes. Prerequisite: permission of instructor. P. Lillard.

Practical experience in dance production as assistant stage manager for a dance theatre concert under the supervision of the faculty production manager. THETR 3700 complements this course.

**DANCE 2610 Dance Production Laboratory II**

Fall and spring. 1–3 credits; may be repeated for credit. Prerequisite: permission of instructor. Orientation meeting at 7:30 p.m. on first Tuesday of classes each semester in Kiplinger Theatre at Schwartz Center. P. Lillard, D. Hall, F. Sellers, and R. MacPike.

Practical experience in dance production, as a light board operator, sound board operator, video operator, or head dresser.

**DANCE 2630 Dance Stage Management Laboratory II**

Fall and spring. 1–4 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 p.m. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes. Prerequisite: permission of instructor. P. Lillard.

Practical experience in theatrical production as assistant stage manager for the dance mainstage concert under the supervision of the faculty production manager. THETR 3700 complements this course.

**DANCE 3660 Lighting Design Studio I (also THETR/VISST 3620) (LA-AS)**

Fall. 4 credits. E. Intemann. For description, see THETR 3620.

**DANCE 3680 Sound Design and Digital Audio (also MUSIC 3431, THETR 3680) (LA-AS)**

Fall and spring. 3 credits. W. Cross. For description, see THETR 3680.

**DANCE 4660 Lighting Design Studio II (also THETR 4620, VISST 4563) (LA-AS)**

Spring. 4 credits. C. Intemann. For description, see THETR 4620.

**Independent Study, Internships, and Honors****DANCE 3000 Independent Study**

Summer, fall, or spring. 1–4 credits. Independent study in the dance allows students the opportunity to pursue special interests not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the course must approve the student's program of study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study, which is available in 223 Schwartz Center.

**DANCE 4050 Honors Research Tutorial I**

Fall or spring. 4 credits. Prerequisite: honors students in dance.

First of a two-semester sequence (the second is DANCE 4060) for seniors engaged in an honors project. For guidelines, see the director of undergraduate studies in dance.

**DANCE 4060 Honors Research Tutorial II**

Fall or spring. 4 credits. Prerequisite: honors students in dance.

Second of a two-semester sequence (the first is DANCE 4050) for students engaged in an honors project.

**DANCE 4850 Undergraduate Internship**

Fall, spring, or summer. 1–3 credits.

To be eligible to enroll and receive credit for an internship, students must be majors in the department. Students are responsible for arranging their own internships in consultation with the faculty in their area of choice *before* preregistration for the semester in which the internship is planned to take place. To receive credit within this course, the internship must be unpaid. Students must follow the rules and procedures stated in the departmental internship form.

**Tracks toward admission into the advanced undergraduate theatre program****Design, Technology, and Stage Management**

Recommended for individuals interested in a **Design, Technology, or Stage Management** track:

**THETR 2500** Fundamentals of Theatre Design and Technology

**THETR 1510 and 2510** Production Lab I and II (at least 1 credit of each)

Recommended for Scenic Design emphasis:

**THETR 3400** Theatrical Drafting and Technical Drawing Studio

**THETR 3510** Production Lab III (as design assistant)

**THETR 3540** Stagecraft Studio

**THETR 3640** Scene Design Studio

Upon admission to the program:

**THETR 4510** Production Lab IV (at least 1 credit)

Recommended for costume design or costume shop management emphasis:

**THETR 3510** Production Lab III (as design assistant)

**THETR 3560** Costume Construction Studio

**THETR 3660** Costume Design Studio I

**THETR 3710** Costume Design Studio II

Upon admission to the program:

**THETR 4510** Production Lab IV (at least 1 credit)

Recommended for Lighting Design or costume shop management emphasis:

**THETR 2520** Technical Production Studio I

**THETR 3510** Production Lab III (as student electrician)

**THETR 3510** Production Lab III (as design assistant)

**THETR 3620** Lighting Design Studio I

Upon admission to the program:

**THETR 4510** Production Lab IV (at least 1 credit)

Recommended for Sound Design emphasis:

**THETR 2510** Production Lab II (as student sound technician)

**THETR 2520** Technical Production Studio I

**THETR 3510** Production Lab III (as design assistant)

**THETR 3680** Sound Design Studio

Upon admission to the program:

**THETR 4510** Production Lab IV (at least 1 credit)

Recommended for Technical Direction emphasis:

**THETR 2520** Technical Production Studio I

**THETR 2560** Technical Production Studio II

**THETR 3400** Theatrical Drafting and Technical Drawing Studio

**THETR 3510** Production Lab III (as assistant technical director)

**THETR 3540** Stagecraft Studio

Upon admission to the program:

**THETR 4510** Production Lab IV (at least 1 credit)

Recommended for Stage Management emphasis:

**THETR 2530** or **3530** Stage Management Lab II or III—two assignments

**THETR 2800** Introduction to Acting

**THETR 3700** Stage Management Studio

**THETR 3980** Fundamentals of Directing I

Upon admission to the program:

**THETR 4530** Stage Management Lab IV

### Directing

Recommended for individuals interested in a directing track:

**THETR 1510** and **THETR 2510** Production Lab I and II (at least 2 combined credits)

**THETR 2400/THETR 2410** Introduction to Western Theatre (one semester *only*)

**THETR 2500** Fundamentals of Design and Technology

**THETR 2800** Introduction to Acting

**THETR 3980** Directing I

**THETR 4980** Directing II

### Playwriting

Recommended for individuals interested in a playwriting track:

**THETR 2400/2410** Introduction to Western Theatre (one semester *only*)

**THETR 2500** Fundamentals of Design and Technology

**THETR 2800** Introduction to Acting

**THETR 3480** Playwriting

**THETR 3490** Advanced Playwriting

Students in the advanced undergraduate theatre program may also elect to take FILM 4850 (Undergraduate Internship) in addition to or in place of one production assignment.

## TURKISH

See "Near Eastern Studies."

## TWI/AKAN

See "Africana Studies and Research Center."

## UKRAINIAN

See "Department of Russian."

## URDU

See "Department of Asian Studies."

## VIETNAMESE

See "Department of Asian Studies."

## VISUAL STUDIES UNDERGRADUATE MINOR

Visual studies is a minor that provides students with an interdisciplinary approach to visual art, media (including digital works), performance, and perception. Faculty from departments throughout the college offer courses toward the minor, drawing on such various disciplines as the history of art, film, literary studies, psychology, theatre, and others. Requirements for the minor include the core course VISST 2000 Introduction to Visual Studies, which introduces students to critical thinking about visual studies as well as close textual analysis in social and historical contexts. Responsibility for teaching the core course rotates among faculty affiliated with the minor, and the course, as much as possible, entail interdepartmental collaboration in the form of team-teaching or visiting lectures. In addition to the core course, students must take one course within the Theory/Practice group plus three additional courses at the 3000 level or above. No more than two courses from the minor may be double-counted toward a student's major. All courses must be taken for a letter grade.

Students interested in pursuing the minor should first discuss it with their current advisors, and then either download the form from the visual studies web site ([www.arts.cornell.edu/histart/vstudies.html](http://www.arts.cornell.edu/histart/vstudies.html)) or contact the visual studies undergraduate coordinator, Jessica Smith. After completing the form, students should attach a copy of their transcript and submit it to Jessica Smith in GM08 Goldwin Smith Hall. Students who have not been in contact with a visual studies advisor will have one selected for them from among the minor's affiliated faculty.

## Interdisciplinary Graduate Concentration

The concentration in visual studies is not meant to substitute for disciplinary training, which will not be waived by the addition of interdisciplinary courses. The "Course List in Visual Studies for 2009-2010" alerts incoming students to courses that may be relevant to

their interests, and aids them in discovering the network of professors working in visual studies, spanning multiple departments and schools at Cornell.

## Visual Studies Minor Course List

### VISST 1101 Design Studio I (also DEA 1010)

Fall. 3 credits. J. Elliott.

For description, see DEA 1010.

### VISST 2000 Introduction to Visual Studies (also ARTH/COML 2000, ENGL 2920) (LA-AS)

Spring. 4 credits. Requirement for undergraduate concentrators. I. Dadi.

Provides a broad introduction of modes of vision and the historical impact of visual images, visual structures, and visual space on culture, communication, and politics. The question of "how we see" is discussed in terms of (1) procedures of sight (from optical machines to the psychology of vision and the philosophy of aesthetics); (2) spaces of vision (from landscapes to maps to cities); (3) objects of vision (from sacred sites to illuminated books to digital art); and (4) performances of vision (race, sexualities, ethnicities, cultures). Of importance to the course is the practical and conceptual relation of 20th-century visual technologies (photography, cinema, video, and computing) to their historical corollaries in the arts. The course draws on the visual traditions of both Western and non-Western societies and study texts that have defined the premises and analytic vocabularies of the visual. Through viewings, screenings, collaborative writing, and art projects, students develop the critical skills necessary to appreciate how the approaches that define visual studies complicate traditional models of defining and analyzing art objects. Guest lecturers occasionally address the class. Requirements: two objective midterm exams; occasional listserv postings; two five-page papers.

### VISST 2020 Introduction to Feminist Theory (also FGSS 2020) (CA-AS)

Spring. 3 credits. Staff.

For description, see FGSS 2020.

### VISST 2174/6174 Introduction to Film Analysis: Meaning and Value (also FILM 2740/6740) (LA-AS)

Fall. 4 credits. Limited to 40 students.

Graduate students should enroll in FILM 6740. D. Fredericksen.

For description, see FILM 2740.

### VISST 2190 Thinking Surrealisms (also ARTH 2019, COML 2200) (LA-AS)

Fall. 4 credits. B. Maxwell.

For description, see COML 2200.

### [VISST 2193 Middle Eastern Cinema (also COML 2293, JWST/NES 2793) @ (LA-AS)]

Fall. 4 credits. Next offered 2010-2011.]

### VISST 2300 Survey of American Film (also AMST/FILM 2760) (LA-AS)

Spring. 3 credits. S. Haenni.

For description, see AMST 2760.

### [VISST 2360 Public Voice and Civic Gesture (also DANCE 2450, THETR 2360)]

Fall. 1 credit. Next offered 2010-2011.

For description, see DANCE 2450.]

**VISST 2419 Rembrandt's Circle: Technologies of Vision (also ARTH 2419) # (CA-AS)**

Fall. 4 credits. L. Pincus.  
For description, see ARTH 2419.

**VISST 2430 Hip-Hop Hollywood (also DANCE 2430, PE 1189)**

Fall and summer. 3 credits. J. Self.  
For description, see DANCE 2430.

**[VISST 2540 Dance Technique Workshop (also DANCE 2240, PE 1188)**

Spring and summer. 0–1 credit. S–U grades only. Next offered 2010–2011.  
For description, see DANCE 2240.]

**VISST 2511 Beginning Dance Composition (also DANCE 2500) (LA-AS)**

Fall, spring, and summer. 3 credits.  
For description, see DANCE 2500.

**[VISST 2645 Renaissance and Baroque (also ARTH 2400) # (HA-AS)**

Fall. 4 credits. Each student must enroll in a sec. Next offered 2010–2011. C. Lazzaro.  
For description, see ARTH 2400.]

**VISST 2744 Gamelan in Indonesian History and Cultures (also ASIAN 2245, MUSIC 1341) @ (LA-AS)**

Fall and spring. 3 credits. No previous knowledge of musical notation or performance experience required. C. Miller.  
For description, see MUSIC 1341.

**VISST 3175 History and Theory of Commercial Narrative Film (also FILM 3750) (LA-AS)**

Fall. 4 credits. Fee for screening expenses: \$10 (paid in class). S. Haenni.  
For description, see FILM 3750.

**VISST 3176 History and Theory of Documentary and Experimental Film (also FILM 3760/6760) (LA-AS)**

Fall. 4 credits. Fee for screen expenses: \$10 (paid in class). A. Villarejo.  
For description, see FILM 3760.

**VISST 3210 Ancient/Modern Corporealities (also DANCE 3580, FILM ITAL 32709) # (LA-AS)**

Summer. 4 credits. B. Suber, J. Rhodes, and B. Milles.  
For description, see DANCE 3580.

**VISST 3305 Visual Perception (also PSYCH 3050)**

Spring. 4 credits. Limited to 20 students. Prerequisite: PSYCH 2050 or permission of instructor. J. Cutting.  
For description, see PSYCH 3050.

**VISST 3318 Literature and Media in Japan (also ASIAN 3318, COML 3150)**

Fall. 3 credits. B. deBary.  
For description, see ASIAN 3318.

**VISST 3342 Human Perception: Application to Computer Graphics, Art, and Visual Display (also COGST/PSYCH 3420, PSYCH 6420)**

Fall. 3 or 4 credits; 4-credit option involves term paper. Prerequisite: PSYCH 1101 or permission of instructor. PSYCH 2050 strongly recommended. D. Field.  
For description, see PSYCH 3420.

**VISST 3443 Leonardo, Michelangelo, and Raphael (also ARTH 3440) # (HA-AS)**

Spring. 4 credits. C. Lazzaro.  
For description, see ARTH 3440.

**VISST 3519 Music, Dance, and Light (also DANCE 3590, THETR 3190) (LA-AS)**

Spring. 3 credits. E. Intemann and A. Fogelsanger.  
For description, see DANCE 3590.

**VISST 3560 Computing Cultures (also COMM 3560, INFO/STS 3561) (CA-AS)**

Spring. 4 credits. R. Prentice.  
For description, see STS 3561.

**VISST 3620 Lighting Design Studio I (also DANCE 3660, THETR 3620) (LA-AS)**

Fall. 4 credits. E. Intemann.  
For description, see THETR 3620.

**[VISST 3645 American Film Melodrama (also AMST/ENGL/FILM 3440, FGSS 3450) (LA-AS)**

Spring. 3 credits. Next offered 2010–2011. S. Haenni.]

**VISST 3655 The House and the World: Architecture of Asia (also ARTH 3855, ASIAN 3394) @ # (HA-AS)**

Spring. 4 credits. K. McGowan.  
For description, see ARTH 3855.

**VISST 3662 Impressionism in Society (also ARTH 3760) # (CA-AS)**

Spring. 4 credits. Not open to freshmen. L. Meixner.

For description, see ARTH 3760.

**VISST 3672 The Art of the Historical Avant-Garde (also ARTH 3672, COML 3840, GERST/ROMS 3770) (LA-AS)**

Spring. 4 credits. P. McBride.  
For description, see GERST 3770.

**VISST 3696 Arts of Southeast Asia (also ARTH 3850, ASIAN 3350) @ # (CA-AS)**

Fall. 4 credits. K. McGowan.  
For description, see ARTH 3850.

**[VISST 3735 Performative Modernism (also ENGL/THETR 3350)**

Fall. 4 credits. Next offered 2010–2011. N. Salvato.]

**VISST 3740 Painting 19th-Century America (also AMST/ARTH 3740) # (CA-AS)**

Fall. 4 credits. L. Meixner.  
For description, see ARTH 3740.

**VISST 3798 Fundamentals of Directing I (also THETR 3980) (LA-AS)**

Fall. 3 credits. Limited to 10 students. Prerequisite: permission of instructor. Special consideration given to students who have completed THETR 2800 or intend to continue in area of stage or screen directing. Students should see instructor one year in advance to sign up for course. D. Feldshuh.

For description, see THETR 3980.

**VISST 3812 Edge Cities: Celluloid New York and Los Angeles (also AMST/ARCH 3812)**

Spring. 3 credits. S. Haenni and M. Woods.  
For description, see AMST 3812.

**VISST 3850 Commedia: A Contemporization of Physical Acting Styles and the Comic Approach (also THETR 3840) (LA-AS)**

Spring. 4 credits. B. Milles.  
For description, see THETR 3840.

**VISST 3851 Partition/Fiction and Film (also ASIAN 3389, COML 3850)**

Fall. 4 credits. A. Banerjee.  
For description, see COML 3850.

**[VISST 3870 Literature and Film of South Asia (also ASIAN 3387, COML 3860) @ (CA-AS)**

Spring. 4 credits. Next offered 2010–2011. A. Banerjee.]

**VISST 4200 Proseminar (also ARTH 4100/6100) (HA-AS)**

Spring. 4 credits. Limited enrollment. Prerequisite: History of Art majors only. I. Dadi.  
For description, see ARTH 4100.

**VISST 4210 Dance Technique IV/Classical (also DANCE 4210, PE 1186)**

Fall and spring. 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S–U grades only. J. Chu and J. Self.  
For description, see DANCE 4210.

**VISST 4220 Dance Technique IV/Modern (also DANCE 4220, PE 1187)**

Fall and spring. 1 credit. By placement only; no pre-enrollment. Attendance at dance concerts required. J. Chu and J. Self.  
For description, see DANCE 4220.

**VISST 4260 Adaption: Text/Theatrically (also THETR 4260) (LA-AS)**

Spring. 4 credits. B. Milles.  
For description, see THETR 4260.

**VISST 4436 Topics in Indian Film (also ASIAN 4436) @ (LA-AS)**

Fall. 4 credits. D. Gold.  
For description, see ASIAN 4436.

**[VISST 4451 Prints and Visual Culture in Early Modern Europe (also ARTH 4451/6451) # (HA-AS)**

Fall. 4 credits. Meets at the Johnson Museum. Next offered 2011–2012. C. Lazzaro.

For description, see ARTH 4451.]

**VISST 4526 Caribbean Dialogs: Online! (also ARTH 4526) @ (CA-AS)**

Summer only. 4 credits. P. Archer-Straw.  
For description, see ARTH 4526.

**VISST 4545 Text Analysis for Production: How to Get from the Text onto the Stage (also ENGL 4441, THETR 4450)**

Spring. 4 credits. Limited to 15 students. Prerequisite: THETR 2500 or 2810 or 3890, or permission of instructor. B. Levitt.  
For description, see THETR 4450.

**[VISST 4546 Shakespeare in (Con)text (also ENGL 4210, THETR 4460) # (LA-AS)**

Fall. 4 credits. Next offered 2010–2011. B. Levitt.

For description, see THETR 4460.]

**VISST 4563 Lighting Design Studio II (also DANCE 4660, THETR 4620) (LA-AS)**

Spring. 4 credits. Limited to 6 students; may be repeated for credit. Prerequisite: THETR 2500 or 3620, or permission of instructor. E. Intemann.

For description, see THETR 4620.

**VISST 4580 Seminar in Dance Studies (also DANCE 4080)**

Spring and summer. 4 credits. Limited to 15 students. Spring, B. Suber; summer, B. Suber and J. Chu.

For description, see DANCE 4080.

**VISST 4607 The Museum and the Object (also ARTH 4107) (CA-AS)**

Fall. 4 credits. Not open to freshmen or sophomores without permission of instructor. All classes meet in Johnson Art Museum Study Gallery. K. McGowan.  
For description, see ARTH 4107.

**VISST 4641 Comparative Modernities (also ARTH 4690/6690, COML 4910) © (CA-AS)**

Fall. 4 credits. Next offered 2010-2011.  
I. Dadi.]

**VISST 4761 Art and Social Histories (also ARTH 4761) (CA-AS)**

Fall and spring. 4 credits. Permission of instructor required; auditing not permitted. Not open to freshmen. L. Meixner.  
**Topic for fall 2009:** Public Culture and the Great Depression; topic for spring 2010: American Art and the Machine. For description, see ARTH 4761.

**[VISST 4800 Advanced Seminar in American Literature: Gender and Visual Culture in Women's Literature (also AMST/ENGL/FGSS 4790, ARTH 4979) (LA-AS)**

Fall. 4 credits. Next offered 2010-2011.  
S. Samuels.]

**VISST 4821 Mobility and Invention (also ARTH/SHUM 4821)**

Fall 4 credits. Limited to 15 students.  
M. Fernandez.  
For description, see SHUM 4821.

**VISST 4825 African Port Cities: Empire Building at the Crossroads (also ARTH/SHUM 4825, ASRC 4607)**

Fall. 4 credits. Limited to 15 students.  
P. Meier.  
For description, see SHUM 4825.

**VISST 4826 Extrastatecraft (also GOVT 4678, SHUM 4826)**

Fall. 4 credits. Limited to 15 students.  
K. Easterling.  
For description, see SHUM 4826.

**VISST 4934 Art Writing: Tracing the Visible (also ARTH/SHUM 4934)**

Spring. 4 credits. Limited to 15 students.  
M. Jacobus.  
For description, see SHUM 4934.

**WELSH**

See "Department of Linguistics."

**WRITING PROGRAM**

See "John S. Knight Institute for Writing in the Disciplines."

**YIDDISH**

See "Department of Near Eastern Studies."

**ZULU**

See "Africana Studies and Research Center."

**FACULTY ROSTER**

For Arts and Sciences Biology faculty see "Biological Sciences."

Abrams, Meyer H., Ph.D., Harvard U. Class of 1916 Professor of English Emeritus, English  
Abruña, Hector D., Ph.D., U. of North Carolina, Chapel Hill. Emile M. Chamot Professor of Chemistry, Chemistry and Chemical Biology  
Abusch, Dorit, Ph.D., U. of Massachusetts, Amherst. Prof., Linguistics  
Aching, Gerard, Ph.D., Cornell U. Prof., Romance Studies  
Adams, Anne, Ph.D., U. of Michigan. Prof. Emerita, Africana Studies and Research Center  
Adams, Barry B., Ph.D., U. of North Carolina. Prof. Emeritus, English  
Adams, James E., Ph.D., Cornell U. Prof., English  
Adelson, Leslie A., Ph.D., Washington U. Prof., German Studies  
Ahl, Frederick M., Ph.D., U. of Texas, Austin. Prof., Classics/Comparative Literature  
Alexander, James P., Ph.D., U. of Chicago. Prof., Physics/LEPP¶  
Alexandridis, Annetta, Ph.D., Ludwig-Maximilians-U. Munich (Germany). Asst. Prof., History of Art  
Alkire, Elbern H., Ph.D., Cornell U. Sr. Lec., Romance Studies  
Allmendinger, Richard W., Ph.D., Stanford U. Prof., Earth and Atmospheric Sciences/INSTOC#  
Allmon, Warren, Ph.D., Harvard U. Adjunct Prof., Earth and Atmospheric Sciences  
Alm, Cecilia, Ph.D., U. of Illinois, Urbana-Champaign. Lec., German Studies  
Altschuler, Glenn C., Ph.D., Cornell U. The Thomas and Dorothy Litwin Professor of American Studies, American Studies  
Ambegaokar, Vinay, Ph.D., Carnegie Inst. of Technology. Goldwin Smith Professor of Physics Emeritus, Physics/LASSP\*  
Amigo-Silvestre, Silvia., M.A., U. of Oregon. Sr. Lec., Romance Studies  
Anderson, Benedict R., Ph.D., Cornell U. Aaron L. Binenkorb Professor of International Studies Emeritus, Government  
Anderson, Christopher J., Ph.D., Washington U. Prof., Government  
Andronicos, Christopher L., Ph.D., Princeton U. Assoc. Prof., Earth and Atmospheric Sciences  
Anker, Elizabeth, Ph.D., U. of Virginia. Asst. Prof., English  
Arcadi, Adam Clark, Ph.D., U. of Michigan. Assoc. Prof., Anthropology  
Archer, Richard J., M.A., U. of Missouri, Kansas City. Assoc. Prof., Theatre, Film, and Dance  
Arias, Tomas A., Ph.D., Massachusetts Inst. of Technology. Prof., Physics/LASSP\*  
Arms, William, Ph.D., U. of Sussex. Prof., Computer Science  
Arroyo, Ciriaco M., Ph.D., U. of Munich (Germany). Emerson-Hinchliff Prof. Emeritus, Romance Studies/Comparative Literature  
Ascher, Robert, Ph.D., U. of California, Los Angeles. Prof. Emeritus, Anthropology  
Ashcroft, Neil W., Ph.D., Cambridge U. (England). Horace White Professor of Physics Emeritus, Physics/LASSP\*  
Assié-Lumumba, N'Dri, Ph.D., U. of Chicago. Prof., Africana Studies and Research Center  
Attell, Kevin, Ph.D., U. of California, Berkeley. Asst. Prof., English  
Auffret, Isabelle, M.A., L'Université Catholique de l'Ouest (France). Lec., Romance Studies

Back, Allen H., Ph.D., U. of California, Berkeley. Sr. Lec., Mathematics  
Bailey, Graeme, Ph.D., U. of Birmingham. Prof., Computer Science  
Baird, Barbara, Ph.D., Cornell U. Prof., Chemistry and Chemical Biology  
Bala, Kavita, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Computer Science  
Banerjee, Anindita, Ph.D., U. of California, Los Angeles. Asst. Prof., Comparative Literature  
Baptist, Edward, Ph.D., U. of Pennsylvania. Assoc. Prof., History  
Bar, Talia, Ph.D., Yale U. Asst. Prof., Economics  
Baraldi, Michela, B.A. equivalent, U. of Bologna (Italy). Lec., Romance Studies  
Barazangi, Muawia, Ph.D., Columbia U. Prof., Earth and Atmospheric Sciences/INSTOC#  
Barbasch, Dan, Ph.D., U. of Illinois. Prof., Mathematics  
Barseghyan, Levon, Ph.D., Northwestern U. Asst. Prof., Economics  
Bassett, William A., Ph.D., Columbia U. Prof. Emeritus, Earth and Atmospheric Sciences  
Basu, Alaka, MSc, U. of London (England). Assoc. Prof., Sociology  
Basu, Kaushik, Ph.D., London School of Economics (England). Carl Marks Prof. of International Studies, Economics  
Bathrick, David, Ph.D., U. of Chicago. Prof. Emeritus, German Studies/Theatre, Film, and Dance  
Bättig von Wittelsbach, Kora, M.A., U. of Zagreb (Croatia)/M.A., Brown U. Sr. Lec., Romance Studies  
Bauer, Simon H., Ph.D., U. of Chicago. Prof. Emeritus, Chemistry and Chemical Biology  
Baugh, Daniel A., Ph.D., Cambridge U. (England). Prof. Emeritus, History  
Bazarov, Ivan, Ph.D., Far Eastern State U. (Russia). Asst. Prof., Physics/LEPP¶  
Bean, Rachel E., Ph.D., Imperial College (England). Asst. Prof., Astronomy/CRSR†  
Bekerie, Ayele, Ph.D., Temple U. Asst. Prof., Africana Studies and Research Center  
Bell, James F., Ph.D., U. of Hawaii. Assoc. Prof., Astronomy/CRSR†  
Bem, Daryl J., Ph.D., U. of Michigan. Prof. Emeritus, Psychology  
Bem, Sandra L., Ph.D., U. of Michigan. Prof., Psychology  
Beneria, Lourdes, Ph.D., Columbia U. Prof., City and Regional Planning/Feminist, Gender, & Sexuality Studies  
Benjamin, Daniel, Ph.D., Harvard U. Asst. Prof., Economics  
Bennett, Karen, Ph.D., U. of Michigan. Assoc. Prof., Philosophy  
Bensel, Richard, Ph.D., Cornell U. Prof., Government  
Béreaud, Jacques, Doctorat d'Univ., U. of Lille (France). Prof. Emeritus, Romance Studies  
Berest, Yuri, Ph.D., U. of Montreal (Canada). Assoc. Prof., Mathematics  
Berezin, Mabel, Ph.D., Harvard U. Assoc. Prof., Sociology  
Bernal, Martin G., Ph.D., Cambridge U. (England). Prof. Emeritus, Government/Near Eastern Studies  
Bernstein, Sarah E., M.F.A., Yale U. Sr. Lec., Theatre, Film, and Dance  
Bernstock, Judith, Ph.D., Columbia U. Assoc. Prof., History of Art  
Besharov, Gregory, Ph.D., Stanford U. Sr. Lec., Economics.  
Beviá, Monica, M.A., U. of Nevada, Reno. Lec., Romance Studies  
Beviá, Tomás, M.A., U. of Nevada, Reno. Sr. Lec., Romance Studies  
Bezhanova, Olga, Ph.D. Yale U. Mellon Assistant Professor, Romance Studies

- Billera, Louis J., Ph.D., City U. of New York. Prof., Mathematics
- Bindel, David, Ph.D., U. of California, Berkeley. Asst. Prof., Computer Science
- Bilson, Malcolm, D.M.A., U. of Illinois. Frederic J. Whiton Professor of Music Emeritus
- Bird, John M., Ph.D., Rensselaer Polytechnic Inst. Prof. Emeritus, Earth and Atmospheric Sciences
- Birman, Kenneth P., Ph.D., U. of California, Berkeley. N. Rama Rao Professor of Computer Science
- Bishop, Jonathan P., Ph.D., Harvard U. Prof. Emeritus, English
- Bjerken, Xak, D.M.A., Peabody Conservatory of Music. Assoc. Prof., Music
- Blackall, Jean F., Ph.D., Harvard U. Prof. Emerita, English
- Blackburn, Anne M., Ph.D., U. of Chicago. Assoc. Prof., Asian Studies
- Bloom, Arthur L., Ph.D., Yale U. Prof. Emeritus, Earth and Atmospheric Sciences
- Blume, Lawrence E., Ph.D., U. of California, Berkeley. Goldwin Smith Professor of Economics
- Blumin, Stuart M., Ph.D., U. of Pennsylvania. Prof. Emeritus, History
- Bock, David, Ph.D., SUNY Albany. Sr. Lec., Mathematics
- Bodenschatz, Eberhard, Ph.D., U. of Bayreuth (Germany). Adj. Prof., Physics/LASSP\*
- Boettcher, Bonna, D.M.A., U. of Iowa. Adj. Prof., Music
- Bogel, Fredric V., Ph.D., Yale U. Prof., English
- Bogel, Lynda Donelia, M.Phil., Yale U. Sr. Lec., English
- Bosteels, Bruno, Ph.D., U. of Pennsylvania. Assoc. Prof., Romance Studies
- Boucher, Daniel, Ph.D., U. of Pennsylvania. Assoc. Prof. and H. Stanley Krusen Professor of World Religions, Asian Studies
- Bowers, John S., Ph.D., Massachusetts Inst. of Technology. Prof., Linguistics
- Bowes, Kimberly, Ph.D., Princeton U. Asst. Prof., Classics
- Boyce Davies, Carole, Ph.D., U. of Ibadan (Nigeria). Prof., Africana Studies and Research Center/English
- Boyd, Richard N., Ph.D., Massachusetts Inst. of Technology. Prof., Philosophy/Science and Technology Studies
- Braddock, Jeremy, Ph.D., U. of Pennsylvania. Asst. Prof., English
- Brady, Mary Pat, Ph.D., U. of California, Los Angeles. Assoc. Prof., English
- Bramble, James H., Ph.D., U. of Maryland. Prof. Emeritus, Mathematics
- Brann, Ross, Ph.D., New York U. Milton R. Konvitz Professor of Judeo-Islamic Studies, Near Eastern Studies
- Brashears, Matthew, Ph.D., U. of Arizona. Asst. Prof., Sociology
- Brazell, Karen W., Ph.D., Columbia U. Prof. Emeritus, Japanese Literature, Asian Studies
- Brennan, Tad, Ph.D., Princeton U. Prof., Philosophy/Classics
- Briggs, Martijna Arts, M.A., O.M.O. Utrecht (The Netherlands). Sr. Lec., German Studies
- Brittain, Charles F., D. Phil., Oxford U. (England). Prof., Classics/Philosophy
- Brookhouse, Stephen Christopher, M.F.A., Virginia Tech. Sr. Lec., Theatre, Film, and Dance
- Brouwer, Piet, Ph.D., Leiden U. (The Netherlands). Assoc. Prof., Physics/LASSP\*
- Brown, Kenneth S., Ph.D., Massachusetts Inst. of Technology. Prof., Mathematics
- Brown, Larry D., Ph.D., Cornell U. Prof., Earth and Atmospheric Sciences/INSTOC#
- Brown, Laura, Ph.D., U. of California, Berkeley. John Wendell Anderson Professor of English
- Browne, E. Wayles, Ph.D., U. of Zagreb (Croatia). Assoc. Prof., Linguistics
- Brumberg, Joan Jacobs, Ph.D., U. of Virginia. S. J. Weiss Presidential Fellow and Prof. Emerita, Human Development/Feminist, Gender, & Sexuality Studies
- Buck-Morss, Susan F., Ph.D., Georgetown U. Prof., History of Art
- Buettner, Bonnie, Ph.D., Cornell U. Sr. Lec., German Studies
- Bunce, Valerie, Ph.D., U. of Michigan. Aaron Binenkorb Professor of International Studies, Government
- Burlitch, James M., Ph.D., Massachusetts Inst. of Technology. Prof. Emeritus, Chemistry and Chemical Biology
- Burns, Joseph A., Ph.D., Cornell U. Irving Porter Church Professor of Engineering, Astronomy/Theoretical and Applied Mechanics/CRSR†
- Byfield, Judith, Ph.D., Columbia U. Assoc. Prof., Africana Studies and Research Center
- Caldwell, Steven B., Ph.D., Cornell U. Assoc. Prof., Sociology
- Campbell, Donald B., Ph.D., Cornell U. Prof., Astronomy/NAIC‡
- Campbell, Timothy C., Ph.D., Columbia U. Assoc. Prof., Romance Studies
- Cao, Xiaodong, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Mathematics
- Carden, Patricia J., Ph.D., Columbia U. Prof., Russian
- Cardie, Claire, Ph.D., U. of Massachusetts. Prof., Computer Science
- Carlacio, Jami, Ph.D., U. of Wisconsin. Lec., English
- Carlson, Allen, Ph.D., Yale U. Assoc. Prof., Government
- Carmichael, Calum M., LL.D., Glasgow U. (Scotland). Prof., Comparative Literature/Biblical Studies
- Caron, Vicki, Ph.D., Columbia U. Prof., Thomas and Diann Mann Chair in Modern Jewish Studies, History/Jewish Studies Program
- Carpenter, Barry K., Ph.D., U. Coll., London (England). Horace White Professor Emeritus, Chemistry and Chemical Biology
- Carroll, Noel, Ph.D. U. of Illinois. Assoc. Prof., Theatre Arts
- Case, Holly, Ph.D., Stanford U. Assoc. Prof., History
- Cassel, David G., Ph.D., Princeton U. Prof., Physics/LEPP¶
- Cassel, Edith Hertha, Ph.D., U. of Heidelberg (Germany). Sr. Lec., Physics
- Castillo, Debra, Ph.D., U. of Wisconsin, Milwaukee. Emerson-Hinchliff Prof., Romance Studies/Comparative Literature
- Cathles, Lawrence M., III, Ph.D., Princeton U. Prof., Earth and Atmospheric Sciences
- Cerione, Richard, Ph.D., Rutgers U. Prof., Chemistry and Chemical Biology
- Cervesi, Flaminia, M.A., Washington U. Sr. Lec., Romance Studies
- Chaloemtiarana, Thak, Ph.D., Cornell U. Assoc. Prof., Asian Studies
- Chan, Garnet Kin-Lic, Ph.D., Christ's Coll. Asst. Prof., Chemistry and Chemical Biology
- Chang, Derek, Ph.D., Duke U. Assoc. Prof., History/Asian American Studies
- Chapman, Masako, M.A., Ohio State U. Lec., Asian Studies
- Chase, Cynthia, Ph.D., Yale U. Prof., English/Comparative Literature
- Chase, Stephen U., Ph.D., U. of Chicago. Prof. Emeritus, Mathematics
- Chen, Jian, Ph.D., South Illinois. Prof., The Michael J. Zak Chair of History for US-China Relations, History/China and Asia-Pacific Studies
- Chen, Peng, Ph.D., Stanford U. Asst. Prof., Chemistry and Chemical Biology
- Chen, Zhihong, Ph.D., U. of Cologne (Germany). Adj. Assoc. Prof., History
- Chernoff, David F., Ph.D., U. of California, Berkeley. Prof., Astronomy/CRSR†
- Chester, Geoffrey V., Ph.D. King's Coll. London (England). Prof. Emeritus, Physics/LASSP\*
- Cheyfetz, Eric, Ph.D., Johns Hopkins U. Prof., English
- Chignell, Andrew, Ph.D., Yale U. Asst. Prof., Philosophy
- Chirik, Paul J., Ph.D., California Inst. of Technology. Prof., Chemistry and Chemical Biology
- Christiansen, Morten, Ph.D., U. of Edinburgh (Scotland). Assoc. Prof., Psychology
- Chu, Jumay Ruth, B.A., U. of California, Berkeley. Sr. Lec., Theatre, Film and Dance
- Cisne, John L., Ph.D., U. of Chicago. Prof., Earth and Atmospheric Sciences/INSTOC#
- Cleland, Clinton, Kevin M., Ph.D., Johns Hopkins U. Prof., Classics
- Coate, Stephen, Ph.D., Northwestern U. Kiplinger Professor of Economic Policy, Economics
- Coates, Geoffrey, Ph.D., Stanford U. Prof., Chemistry and Chemical Biology
- Cochran, Sherman, Ph.D., Yale U. Hushih Professor of History, History
- Cohen, Itai, Ph.D., U. of Chicago. Asst. Prof., Physics/LASSP\*
- Cohen, Marshall M., Ph.D., U. of Michigan. Prof. Emeritus, Mathematics
- Cohen, Walter I., Ph.D., U. of California, Berkeley. Prof., Comparative Literature
- Cohn, Abigail C., Ph.D., U. of California, Los Angeles. Prof., Linguistics
- Colby-Hall, Alice M., Ph.D., Columbia U. Prof. Emerita, Romance Studies
- Collum, David B., Ph.D., Columbia U. Prof., Chemistry and Chemical Biology
- Colucci, Stephen J., Ph.D., SUNY Albany. Prof., Earth and Atmospheric Sciences
- Connelly, Robert, Ph.D., U. of Michigan. Prof., Mathematics
- Constable, Robert L., Ph.D., U. of Wisconsin. Prof., Computer Science
- Cooke, W. Donald, Ph.D., U. of Pennsylvania. Prof. Emeritus, Chemistry and Chemical Biology
- Cordes, James M., Ph.D., U. of California, San Diego. Prof., Astronomy/NAIC‡
- Cornwell, Benjamin, Ph.D., U. of Chicago. Asst. Prof., Sociology
- Corpis, Duane J., Ph.D., New York U. Asst. Prof., History
- Correll, Barbara, Ph.D., U. of Wisconsin. Assoc. Prof., English
- Correll, Shelley, Ph.D., Stanford U. Asst. Prof., Sociology
- Corson, Dale R., Ph.D., U. of California, Berkeley. Prof. Emeritus, Physics
- Cotts, Robert M., Ph.D., U. of California, Berkeley. Prof. Emeritus, Physics/LASSP\*
- Cowden, Jonathan, Ph.D., Yale U. Asst. Prof., Government
- Craib, Raymond, Ph.D., Yale U. Assoc. Prof., History
- Crane, Brian R., Ph.D., Scripps Research Inst. Asst. Prof., Chemistry and Chemical Biology
- Cross, Warren Dennis, B.A., SUNY Stony Brook. Sr. Lec., Theatre, Film, and Dance
- Cruz de Jesús, David, Ph.D., U. at Albany, SUNY. Sr. Lec., Romance Studies
- Csaki, Csaba, Ph.D., Massachusetts Inst. of Technology. Assoc. Prof., Physics/LEPP¶

- Culler, Jonathan D., D. of Phil., Oxford U. (England). Class of 1916 Professor, English/Comparative Literature
- Cutting, James E., Ph.D., Yale U. Prof., Psychology
- Dadi, Iftikhar, Ph.D., Cornell U. Asst. Prof., History of Art
- Dannhauser, Werner J., Ph.D., U. of Chicago. Prof. Emeritus, Government
- Darlington, Richard B., Ph.D., U. of Minnesota. Prof. Emeritus, Psychology
- Davis, H. Floyd, Ph.D., U. of California, Berkeley. Prof., Chemistry and Chemical Biology
- Davis, J. C. Seamus, Ph.D., U. of California, Berkeley. Prof., Physics/LASSP\*
- Davis, Stuart Arrowsmith, M.Phil., Yale U. Sr. Lec., English
- Davis, Tom E., Ph.D., Johns Hopkins U. Prof. Emeritus, Economics
- Dear, Peter R., Ph.D., Princeton U. Prof., History/Science and Technology Studies
- de Bary, Brett, Ph.D., Harvard U. Prof., Asian Studies/Comparative Literature
- DeBeer George, Serena, Ph.D., Stanford U. Asst. Prof., Chemistry and Chemical Biology
- DeGaetano, Arthur T., Ph.D., Rutgers U. Prof., Earth and Atmospheric Science
- Deinert, Herbert, Ph.D., Yale U. Prof. Emeritus, German Studies
- Dennis, R. Keith, Ph.D., Rice U. Prof., Mathematics
- Derry, Louis A., Ph.D., Harvard U. Assoc. Prof., Earth and Atmospheric Sciences
- DeVoogd, Timothy J., Ph.D., U. of Illinois. Prof., Psychology
- Dichtel, William R., Ph.D., U. of California, Berkeley. Asst. Prof., Chemistry and Chemical Biology
- Diesing, Molly, Ph.D., U. of Massachusetts, Amherst. Prof., Linguistics
- Dietle, Gregory, Ph.D., North Carolina State U. Adj. Asst. Prof., Earth and Atmospheric Sciences
- DiSalvo, Francis J. Jr., Ph.D., Stanford U. John A. Newman Professor of Physical Science, Chemistry and Chemical Biology
- Divo-Hoare, Stephanie Alison, Ph.D., Cornell U. Sr. Lec., Asian Studies
- Donaldson, Laura, Ph.D., Emory U. Prof., English
- Dreyer, Melanie, M.F.A., Northwestern U. Asst. Prof., Theatre, Film, and Dance
- Dubreuil, Laurent, Ph.D., Université Paris VIII. Prof., Romance Studies/Comparative Literature
- Dugan, Gerald F., Ph.D., Columbia U. Prof., Physics/LEPP¶
- Dunning, David, Ph.D., Stanford U. Prof., Psychology
- Durrett, Richard T., Ph.D., Stanford U. Prof., Mathematics
- Dynkin, Eugene B., Dr. of Sci., Moscow U. (Russia). Abram R. Bullis Professor of Mathematics
- Ealick, Steven, Ph.D., U. of Oklahoma. Prof., Chemistry and Chemical Biology
- Earle, Clifford J., Ph.D., Harvard U. Prof. Emeritus, Mathematics
- Easley, David, Ph.D., Northwestern U. Henry Scarborough Prof. of Social Sciences, Economics
- Eddy, Donald D., Ph.D., U. of Chicago. Prof. Emeritus, English
- Edelman, Shimon, Ph.D., Weizmann Inst. of Science (Israel). Prof., Psychology
- Edmondson, Locksley G., Ph.D., Queens U. (Canada). Prof., Africana Studies and Research Center
- Ehrenberg, Ronald, Ph.D., Northwestern U. Prof., Industrial and Labor Relations/Economics
- Eklund, Matti, Ph.D., Massachusetts Inst. of Technology. Assoc. Prof., Philosophy
- Elaqad, Hisam, M.A., U. of Michigan. Sr. Lec., Near Eastern Studies
- Elias, Robert, Ph.D., U. of Pennsylvania. Goldwin Smith Professor of English Literature and American Studies, Emeritus, English
- Elser, Veit, Ph.D., U. of California, Berkeley. Prof., Physics/LASSP\*
- Enns, Peter, Ph.D., U. of North Carolina. Asst. Prof., Government
- Ernst, Kevin, D.M.A., Eastman School of Music. Asst. Prof., Music
- Esman, Milton J., Ph.D., Princeton U. John S. Knight Professor of International Studies, Emeritus, Government
- Evangelista, Matthew, Ph.D., Cornell U. Prof., Government
- Ezra, Gregory S., Ph.D., Oxford U. (England). Prof., Chemistry and Chemical Biology
- Fahmy, Ziad, Ph.D., U. of Arizona. Asst. Prof., Near Eastern Studies
- Fajans, Jane, Ph.D., Stanford U. Assoc. Prof., Anthropology
- Falk, Oren, Ph.D., U. of Toronto (Canada). Assoc. Prof., History
- Falkson, Louis, M.A., Harvard U. Sr. Lec., Economics
- Fallman, Tamra, M.A., Columbia U. Lec., Romance Studies
- Fan, K-Y Daisy, Ph.D., Cornell U. Lec., Computer Science
- Farred, Grant A., Ph.D., Princeton U. Prof., Africana Studies and Research Center/English
- Farrell, Roger H., Ph.D., U. of Illinois. Prof. Emeritus, Mathematics
- Faulkner, David A., M.A., Princeton U. Sr. Lec., Knight Institute for Writing in the Disciplines/English
- Fay, Robert C., Ph.D., U. of Illinois. Prof. Emeritus, Chemistry and Chemical Biology
- Feeney, Timothy, D.M.A., Yale U. Lec., Music
- Feldman, Richard L., M.A., U. of Illinois, Urbana-Champaign.
- Feldshuh, David, Ph.D., U. of Minnesota. Prof., Theatre, Film and Dance
- Ferguson, Melissa, Ph.D., New York U. Assoc. Prof., Psychology
- Fernández, María, Ph.D., Columbia U. Assoc. Prof., History of Art
- Field, David J., Ph.D., U. of Pennsylvania. Prof., Psychology
- Fine, Gail J., Ph.D., Harvard U. Prof., Philosophy/Classics
- Finlay, Barbara L., Ph.D., Massachusetts Inst. of Technology. William R. Kenan, Jr. Professor of Psychology
- Finley, Cheryl, Ph.D., Yale U. Asst. Prof., History of Art
- Fiskesjo, Magnus, Ph.D., U. of Chicago. Asst. Prof., Anthropology
- Flanagan, Éanna É., Ph.D., California Inst. of Technology. Prof., Physics/Astronomy/LEPP¶
- Fogelsanger, Allen L., Ph.D., Cornell U. Sr. Lec., Theatre, Film and Dance
- Fontaine, Michael, Ph.D., Brown U. Asst. Prof., Classics
- Fortune, Joanne E., Ph.D., Cornell U. James Law Professor of Physiology/Feminist, Gender, & Sexuality Studies
- Francis, Paul, Ph.D., U. Coll. London (England). Assoc. Prof., Computer Science
- Frank, Jason, Ph.D., Johns Hopkins U. Gary S. Davis Asst. Professorship of the History of Political Thought, Government
- Fredericksen, Donald L., Ph.D., U. of Iowa. Prof., Theatre, Film and Dance
- Freed, Jack H., Ph.D., Columbia U. Prof., Chemistry and Chemical Biology
- Fried, Debra, Ph.D., Yale U. Assoc. Prof., English
- Fulbright, Robert, Ph.D., U. of Michigan. Sr. Lec., Physics
- Fulton, Alice, MFA, Cornell U. Ann S. Bowers Professor of English
- Furman, Nelly, Ph.D., Columbia U. Prof. Emerita, Romance Studies
- Gainor, Ellen J., Ph.D., Princeton U. Prof., Theatre, Film, and Dance
- Gair, James W., Ph.D., Cornell U. Prof. Emeritus, Linguistics
- Galik, Richard S., Ph.D., Cornell U. Prof., Physics/LEPP¶
- Galloway, Andrew, Ph.D., U. of California, Berkeley. Professor of English
- Ganem, Bruce, Ph.D., Columbia U. Franz and Elisabeth Roessler Professor of Chemistry and Chemical Biology
- Garcés, Maria Antonia, Ph.D., Johns Hopkins U. Assoc. Prof., Romance Studies
- Garcia, Maria Cristina, Ph.D., U. of Texas, Austin. Prof., History/Latino Studies
- Gehrke, Johannes, Ph.D., U. of Wisconsin, Madison. Assoc. Prof., Computer Science
- George, Weiqing-Su, M.A., U. of Arizona. Sr. Lec., Asian Studies
- Ghosh, Durba, Ph.D., U. of California, Berkeley. Assoc. Prof., History
- Giambattista, Alan G., M.S., Cornell U. Sr. Lec., Physics
- Gibbons, Lawrence K., Ph.D., U. of Chicago. Assoc. Prof., Physics/LEPP¶
- Gibson, Eleanor J., Ph.D., Yale U. Susan Linn Sage Professor of Psychology Emeritus, Psychology
- Gierasch, Peter J., Ph.D., Harvard U. Prof., Astronomy/CRSR
- Gilbert, Roger S., Ph.D., Yale U. Prof., English
- Gilgen, Peter, Ph.D., Stanford U. Assoc. Prof., German Studies
- Gilovich, Thomas, Ph.D., Stanford U. Prof., Psychology
- Ginet, Carl A., Ph.D., Cornell U. Prof. Emeritus, Philosophy
- Ginsparg, Paul, Ph.D., Cornell U. Prof., Physics/CIS
- Giovanelli, Riccardo, Ph.D., Indiana U. Prof., Astronomy/NAIC‡
- Gleach, Frederic, Ph.D., Stanford U. Sr. Lec., Anthropology
- Goetz, Kent, M.F.A., U. of Wisconsin, Madison. Prof., Theatre, Film and Dance
- Gold, Daniel, Ph.D., U. of Chicago Divinity School. Prof., Asian Studies
- Goldsmith, Paul F., Ph.D., U. of California, Berkeley. Professor Emeritus, Astronomy/NAIC‡
- Goldstein, Michael, Ph.D., Indiana U. Asst. Prof., Psychology
- Gomes, Carla P., Ph.D., U. of Edinburgh (Scotland). Assoc. Prof., Computer Science
- Gosa, Travis L. ars, Ph.D., Johns Hopkins U. Asst. Prof., Africana Studies and Research Center
- Gottfried, Kurt, Ph.D., Massachusetts Inst. of Technology. Prof. Emeritus, Physics/LEPP¶
- Gottschalk, Katherine Kiblinger, Ph.D., U. of Chicago. Sr. Lec., English and Knight Institute for Writing in the Disciplines
- Greenberg, Donald P., Ph.D., Cornell U. Prof., Computer Science

- Greenberg, Mitchell, Ph.D., U. of California, Berkeley. Goldwin Smith Professor of Romance Studies
- Greene, Brian, Ph.D., Oxford U. Adj. Prof., Physics/LEPP¶
- Greene, Charles H., Ph.D., U. of Washington. Prof., Earth and Atmospheric Sciences/CFE
- Greene, Sandra E., Ph.D., Northwestern U. Prof., History
- Greenwood, Davydd J., Ph.D., U. of Pittsburgh. Goldwin Smith Professor of Anthropology
- Gries, David, Ph.D., Dr rer.nat. Munich Inst. of Technology (Germany). Prof., Computer Science
- Grimes, Joseph E., Ph.D., Cornell U. Prof. Emeritus, Modern Languages and Linguistics
- Groos, Arthur, Ph.D., Cornell U. Prof., German Studies and Music
- Gross, Leonard, Ph.D., U. of Chicago. Prof., Mathematics
- Grossman, Yuval, Ph.D., Weizmann Inst. of Science, Rehovot (Israel). Assoc. Prof., Physics/LEPP¶
- Grossvogel, Anita V., Ph.D., Cornell U. Assoc. Prof. Emerita, Romance Studies
- Grossvogel, David I., Ph.D., Columbia U. Prof. Emeritus, Goldwin Smith Professor of Romance Studies and Comparative Literature
- Gruner, Sol M., Ph.D., Princeton U. Prof., Physics/LASSP\*
- Guckenheimer, John, Ph.D., U. of California, Berkeley. Prof., Mathematics
- Guerdjikova, Ani, Ph.D., U. of Heidelberg (Germany). Asst. Prof., Economics
- Gunn, Edward M., Jr., Ph.D., Columbia U. Prof., Asian Studies
- Haenni, Sabine, Ph.D., U. of Chicago. Assoc. Prof., Theatre, Film and Dance/American Studies
- Haines-Eitzen, John, B.M., U. of Indiana. Sr. Lec., Music
- Haines-Eitzen, Kim, Ph.D., U. of North Carolina. Assoc. Prof., Near Eastern Studies/Religious Studies
- Hale, John T., Ph.D., Johns Hopkins U. Assoc. Prof., Linguistics
- Hall, Daniel Crawford, M.F.A., U. of Iowa. Sr. Lec., Theatre, Film and Dance
- Halpern, Bruce P., Ph.D., Brown U. Susan Linn Sage Professor of Psychology, Psychology/Biological Sciences
- Halpern, Joseph Y., Ph.D., Harvard U. Prof., Computer Science
- Hammes, Gordon G., Ph.D., U. of Wisconsin. Horace White Prof. Emeritus, Chemistry and Chemical Biology
- Hand, Louis N., Ph.D., Stanford U. Prof. Emeritus, Physics/LEPP¶
- Hanson, Ellis, Ph.D., Princeton U. Prof., English
- Harbert, Wayne E., Ph.D., U. of Illinois. Prof., Linguistics
- Harris, David, Ph.D., Northwestern U. Prof., Sociology
- Harris, Robert L., Ph.D., Northwestern U. Prof., Africana Studies and Research Center
- Harris-Warrick, Rebecca, D.M.A., Stanford U. Prof., Music
- Hartill, Donald L., Ph.D., California Inst. of Technology. Prof., Physics/LEPP¶
- Hartmanis, Juris, Ph.D., California Inst. of Technology. Walter R. Read Professor of Engineering Emeritus, Computer Science
- Harwit, Martin O., Ph.D., Massachusetts Inst. of Technology. Prof. Emeritus, Astronomy/CRSR†
- Hassan, Salah M., Ph.D., U. of Pennsylvania. Prof., Africana Studies and Research Center/Adj. Prof., History of Art
- Hatch, Martin, Ph.D., Cornell U. Assoc. Prof., Music
- Hatcher, Allen, Ph.D., Stanford U. Prof., Mathematics
- Hay, George A., Ph.D., Northwestern U. Prof., Economics/Edward Cornell Prof. of Law
- Hayes, Donald P., Ph.D., U. of Washington. Prof. Emeritus, Sociology
- Haynes, Martha P., Ph.D., Indiana U. Goldwin Smith Professor of Astronomy/NAIC‡
- Heckathorn, Douglas D., Ph.D., U. of Kansas. Prof., Sociology
- Henderson, David W., Ph.D., U. of Wisconsin. Prof., Mathematics
- Henderson, John S., Ph.D., Yale U. Prof., Anthropology
- Henley, Christopher L., Ph.D., Harvard U. Prof., Physics/LASSP\*
- Herath, Bandara, B.A., U. of Peradeniya (Sri Lanka). Lec., Asian Studies
- Herrin, W. Lamar, Ph.D., U. of Cincinnati. Prof. Emeritus, English
- Herring, Ronald, Ph.D., U. of Wisconsin, Madison. Prof., Government
- Herter, Terry L., Ph.D., U. of Rochester. Prof., Astronomy/CRSR†
- Hertz, Susan R., Ph.D., Cornell U. Adjunct Prof., Linguistics
- Hijazi, Feryal, M.A., Amman U. (Jordan) Lec., Near Eastern Studies
- Hildebrand, George H., Ph.D., Cornell U. Maxwell M. Upson Professor of Economics and Industrial Relations Emeritus, Economics/Industrial and Labor Relations
- Hilgartner, Stephen, Ph.D., Cornell U. Assoc. Prof., Science and Technology Studies
- Hill, Thomas D., Ph.D., Cornell U. Prof., English/Medieval Studies
- Hines, Melissa A., Ph.D., Stanford U. Prof., Chemistry and Chemical Biology
- Hinrichs, T. J., Ph.D., Harvard U. Asst. Prof., History
- Hirano, Katsuya, Ph.D., Chicago U. Asst. Prof., History
- Hirsh, Elizabeth, Ph.D., U. of Washington. Asst. Prof., Sociology
- Hite, Molly, Ph.D., U. of Washington. Prof., English
- Hjortshoj, Keith Guy, Ph.D., Cornell U. Sr. Lec., Knight Institute for Writing in the Disciplines
- Hodes, Harold, Ph.D., Harvard U. Assoc. Prof., Philosophy
- Hoffmann, Roald, Ph.D., Harvard U. Frank H. T. Rhodes Professor of Humane Letters, Emeritus, Chemistry and Chemical Biology
- Hoffstaetter, Georg, Ph.D., Michigan State U. Assoc. Prof., Physics/LEPP¶
- Hogg, Nelson, Ph.D., Massachusetts Institute of Technology, Adj. Prof., Earth and Atmospheric Sciences
- Hohendahl, Peter U., Ph.D., Hamburg U. (Germany). Jacob Gould Schurman Professor of German Literature, German Studies/Comparative Literature
- Holcomb, Donald F., Ph.D., U. of Illinois. Prof. Emeritus, Physics/LASSP\*
- Holdheim, W. Wolfgang, Ph.D., Yale U. Frederic J. Whiton Professor of Liberal Studies, Emeritus, Comparative Literature/Romance Studies
- Holm, Tara, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Mathematics
- Holmberg, David H., Ph.D., Cornell U. Prof., Anthropology/Feminist, Gender, & Sexuality Studies
- Holst-Warhaft, Gail, Ph.D., Cornell U. Adj. Prof., Comparative Literature
- Hong, Yongmiao, Ph.D., U. of California, San Diego. Assoc. Prof., Economics
- Hopcroft, John E., Ph.D., Stanford U. IBM Prof. of Engineering and Applied Mathematics, Computer Science
- Horne, Luz, Ph.D., Yale U. Asst. Prof., Romance Studies
- Hosea, Chrissy, M.A. equivalent, Vrije U. (Amsterdam). Lec., German Studies
- Houck, James R., Ph.D., Cornell U. Kenneth A. Wallace Professor of Astronomy/CRSR†
- Houston, Paul L., Ph.D., Massachusetts Inst. of Technology. Peter J. W. Debye Professor of Chemistry and Chemical Biology
- Howie, Cary S., Ph.D., Stanford U. Asst. Prof., Romance Studies
- Hsu, John T. H., D. Music, New England Conservatory of Music. Old Dominion Foundation Professor Emeritus of Humanities and Music
- Huang, Hong, M.A., City Coll. of New York. Sr. Lec., Asian Studies
- Hubbard, John H., Doctorat d'Etat, U. of Paris (France). Prof., Mathematics
- Hughes, Robert E., Ph.D., Cornell U. Prof. Emeritus, Chemistry and Chemical Biology
- Hull, Isabel V., Ph.D., Yale U. John Stambaugh Professor of History, History
- Husa, Karel, Diplomat, Paris Conservatory (France). Kappa Alpha Professor Emeritus of Music
- Huttenlocher, Daniel P., Ph.D., Massachusetts Inst. of Technology. Prof., Computer Science/JGSM
- Hwang, J. T. Gene, Ph.D., Purdue U. Prof., Mathematics
- Hyams, Paul R., D. Phil., Oxford U. (UK). Prof., History
- Hysell, David L., Ph.D., Cornell U. Prof., Earth and Atmospheric Sciences
- Ichikawa, Sahoko, M.A., Indiana U. Lec., Asian Studies
- Ilyashenko, Yulij, Ph.D., Moscow State U. (Russia). Prof., Mathematics
- Intemann, Edward David, M.F.A., Cornell U. Sr. Lec., Theatre, Film, and Dance
- Irwin, Terence H., Ph.D., Princeton U. Prof. Emeritus, Philosophy
- Isacks, Bryan L., Ph.D., Columbia U. William and Katherine Snee Prof., Emeritus, Earth and Atmospheric Sciences
- Isard, Walter, Ph.D., Harvard U. Prof. Emeritus, Economics
- Isbell, Billie J., Ph.D., U. of Illinois. Prof. Emerita, Anthropology
- Isen, Alice M., Ph.D., Stanford U. Prof., Johnson Graduate School of Management/Psychology
- Jagacinski, Ngampit, Ph.D., Ohio State U. Sr. Lec., Asian Studies
- James, Doug L., Ph.D., U. of British Columbia. Assoc. Prof., Computer Science
- Jancaitis, Holland, M.M.A., Yale U. Lec., Music
- Janowitz, Phyllis, M.F.A., U. of Massachusetts. Prof. Emerita, English
- Joachims, Thorsten, Ph.D., U. of Dortmund (Germany). Assoc. Prof., Computer Science
- John, James J., Ph.D., U. of Notre Dame. Professor Emeritus, History
- Johnston, Robert E., Ph.D., Rockefeller U. Prof., Psychology
- Johnston Turner, Cynthia, D.M.A., Eastman School of Music. Asst. Prof., Music
- Jones, Wendy, Ph.D., Cornell U. Sr. Lec., English
- Jones-Correa, Michael, Ph.D., Princeton U. Prof., Government

- Jordan, Kurt, Ph.D., Columbia U. Asst. Prof., Anthropology
- Jordan, Teresa E., Ph.D., Stanford U. Prof., Earth and Atmospheric Sciences/INSTOC#
- Kahn, Alfred E., Ph.D., Yale U. Robert Julius Thorne Professor of Political Economy Emeritus, Economics
- Kahn, Peter J., Ph.D., Princeton U. Prof., Mathematics
- Kalas, Rayna, Ph.D., U. of Pennsylvania. Assoc. Prof., English
- Kammen, Michael G., Ph.D., Harvard U. Newton C. Farr Professor Emeritus of American History and Culture, History
- Kanbur, Ravi, Ph.D., Oxford U. (England) T. H. Lee Prof. of World Affairs, Economics
- Kanematsu, Janice, Ph.D., U. of California, Berkeley. Asst. Prof., Asian Studies
- Kaplan, Steven L., Ph.D., Yale U. Goldwin Smith Professor of History, History
- Karig, Daniel E., Ph.D., U. of California, San Diego. Prof. Emeritus, Earth and Atmospheric Sciences
- Kaske, Carol V., Ph.D., Johns Hopkins U. Prof. Emerita, English
- Kassabov, Martin, Ph.D., Yale U. Asst. Prof., Mathematics
- Katagiri, Yukiko, M.A., Nihon Joshi Daigaku (Japan). M.A., Cornell U. Sr. Lec., Asian Studies
- Katzenstein, Mary F., Ph.D., Massachusetts Inst. of Technology. Stephen and Evalyn Milman Professor of American Studies, Government
- Katzenstein, Peter J., Ph.D., Harvard U. Walter S. Carpenter, Jr., Professor of International Studies, Government
- Kay, Robert W., Ph.D., Columbia U. Prof., Earth and Atmospheric Sciences/INSTOC#
- Kay, Suzanne Mahlburg, Ph.D., Brown U. Prof., Earth and Atmospheric Sciences/INSTOC#
- Keller, Patricia, Ph.D., U Michigan. Asst. Prof. Romance Studies
- Kelley, E. Wood, Ph.D., Indiana U. Assoc. Prof., Government
- Kelley, Michael C., Ph.D., U. of California, Berkeley. Prof., Earth and Atmospheric Sciences/Electrical and Computer Engineering
- Kellock, Judith, M.M., Boston U. Assoc. Prof., Music
- Kennedy, William J., Ph.D., Yale U. Prof., Comparative Literature
- Kesten, Harry, Ph.D., Cornell U. Prof. Emeritus, Mathematics
- Khoussainov, Bakhadyr, Ph.D., Novosibirsk U. (Russia). Adj. Prof., Mathematics
- Kiefer, Nicholas M., Ph.D., Princeton U. Ta-Chung Liu Prof. of Economics
- Kim, Chris Y., M.M., U. of Michigan, Ann Arbor. Asst. Prof., Music
- Kim, Eun-Ah, Ph.D., U. of Illinois. Asst. Prof., Physics/LASSP
- Kinoshita, Toichiro, Ph.D., Tokyo U. (Japan). Goldwin Smith Professor of Physics Emeritus/LEPP¶
- Kirshner, Jonathan, Ph.D., Princeton U. Prof., Government
- Klein, Richard J., Ph.D., Yale U. Prof., Romance Studies
- Kleinberg, Jon, Ph.D., Massachusetts Inst. of Technology. Tisch University Professor of Computer Science
- Kleinberg, Robert, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Computer Science
- Kline, Ronald, Ph.D., U. of Wisconsin. Sue G. and Harry E. Bovay Jr. Professor of History and Ethics of Engineering, Science and Technology Studies
- Knapp, Warren W., Ph.D., U. of Wisconsin. Prof. Emeritus, Earth and Atmospheric Sciences
- Koch, Christoph, Ph.D., T. U. Vienna. Assoc. Prof., Computer Science
- Koch, Michael, M.F.A., Wichita State U. Sr. Lec., English
- Kosch, Michelle, Ph.D., Columbia U. Assoc. Prof., Philosophy
- Koschmann, J. Victor, Ph.D., U. of Chicago. Prof., History
- Kovar, Janice Sue, B.S., U. of Illinois. Sr. Lec., Theatre, Film and Dance
- Kozen, Dexter, Ph.D., Cornell U. Joseph N. Pew Professor of Engineering/Computer Science
- Kramnick, Isaac, Ph.D., Harvard U. Richard J. Schwarz Professor of Government
- Krasicky, Philip, Ph.D., Cornell U. Sr. Lec., Physics
- Kreps, Sarah, Ph.D., Georgetown U. Asst. Prof., Government
- Krivitsky, Raissa, M.A., Odessa U. (Ukraine). Sr. Lec., Russian
- Krumhansl, Carol L., Ph.D., Stanford U. Prof., Psychology
- Kufner, Herbert L., Ph.D., Cornell U. Prof. Emeritus, Modern Languages and Linguistics
- Kuniholm, Peter I., Ph.D., U. of Pennsylvania. Prof., Archaeology and Dendrochronology
- LaCapra, Dominic C., Ph.D., Harvard U. Bryce and Edith M. Bowman Professor in Humanistic Studies, History/Comparative Literature
- LaFeber, Walter F., Ph.D., U. of Wisconsin. Marie Underhill Noll Professor of American History Emeritus, History
- Lai, Clement, Ph.D., U. of California, Berkeley. Asst. Prof., Asian American Studies
- Lai, Dong, Ph.D., Cornell U. Assoc. Prof., Astronomy/CRSR†
- Lambert, Bernd, Ph.D., U. of California, Berkeley. Prof. Emeritus, Anthropology
- Langwick, Stacey, Ph.D., U. of North Carolina. Asst. Prof., Anthropology
- Larson, Naomi, M.A., Seikei U. (Japan). Sr. Lec., Asian Studies
- Law, Jane Marie, Ph.D., U. of Chicago. Assoc. Prof., Asian Studies
- Lawler, Edward J., Ph.D., U. of Wisconsin. Prof. Sociology/Industrial and Labor Relations
- Lawler, Gregory F., Ph.D., Princeton U. Adj. Prof., Mathematics
- Lawler, Margaret, M.A., San Jose State Coll. Assoc. Prof. Emerita, Theatre Arts
- Lawless, Cecelia Burke, Ph.D., Cornell U. Sr. Lec., Romance Studies
- Lazzaro, Claudia, Ph.D., Princeton U. Prof., History of Art
- Leavitt, Thomas W., Ph.D., Harvard U. Prof. Emeritus, History of Art
- LeClair, André R., Ph.D., Harvard U. Prof., Physics/LEPP¶
- Lee, David M., Ph.D., Yale U. James Gilbert White Distinguished Professor in the Physical Sciences Emeritus, Physics/LASSP\*
- Lee, Lillian, Ph.D., Harvard U. Assoc. Prof., Computer Science
- Lee, Stephen, Ph.D., U. of Chicago. Prof., Chemistry and Chemical Biology
- Leed, Richard L., Ph.D., Cornell U. Prof. Emeritus, Modern Languages and Linguistics
- Lennon, J. Robert, M.F.A., U. Montana. Asst. Prof., English
- Lepage, G. Peter, Ph.D., Stanford U. Prof., Physics/LEPP¶
- Leuenberger, Christine A., Ph.D., U. of Konstanz (Germany). Sr. Lec., Science and Technology Studies
- Levitsky, David A., Ph.D., Rutgers U. Prof., Nutritional Sciences/Psychology
- Levitt, Bruce, Ph.D., U. of Michigan. Prof., Theatre, Film and Dance
- Lewenstein, Bruce V., Ph.D., U. of Pennsylvania. Assoc. Prof., Science and Technology Studies/Communication
- Lewis, Philip E., Ph.D., Yale U. Prof. Emeritus, Romance Studies
- Liepe, Matthias, Ph.D., U. Hamburg (Germany). Asst. Prof., Physics/LEPP¶
- Lillard, Pamela S., M.F.A., Virginia Tech. Sr. Lec., Theatre, Film and Dance
- Lin, Hening, Ph.D., Columbia U. Asst. Prof., Chemistry and Chemical Biology
- Lin, Joseph, B.A., Harvard U. Asst. Prof., Music
- Lischke, Gunhild Iris, Zweites Staatsexamen, Ministry of Education, Hamburg (Germany). M.A. Cornell U. Sr. Lec., German Studies
- Littauer, Raphael M., Ph.D., Cambridge U. (England). Prof. Emeritus, Physics/LEPP¶
- Liu, Petrus, Ph.D., U. of California, Berkeley. Asst. Prof., Comparative Literature
- Livesay, G. Roger, Ph.D., U. of Illinois. Prof. Emeritus, Mathematics
- Lloyd, James P., Ph.D., U. of California, Berkeley. Asst. Prof., Astronomy/CRSR†
- LoBello, Susan, M.A., U. of Kansas. Sr. Lec., Romance Studies
- Logevall, Fredrik, Ph.D., Yale U. Prof., History
- Lohman, Rowena B., Ph.D., California Inst. of Technology. Asst. Prof., Earth and Atmospheric Sciences
- Long, Kathleen P., Ph.D., Yale U. Prof., Romance Studies
- Loos, Tamara L., Ph.D., Cornell U. Assoc. Prof., History
- Lorenz, Philip, Ph.D., New York U. Asst. Prof., English
- Loring, Roger F., Ph.D., Stanford U. Prof., Chemistry and Chemical Biology
- Lovelace, Richard V. E., Ph.D., Cornell U. Prof., AEP/Astronomy/CRSR†
- Lowi, Theodore J., Ph.D., Yale U. John L. Senior Professor of American Institutions, Government
- Luks, Joanna G., Ed.M., Boston U. Sr. Lec., Romance Studies
- Lurie, Alison, A.B., Radcliffe Coll. Frederic J. Whiton Professor of American Literature Emerita, English
- Luster, Martin, LLB, New York U. Government
- Lynch, Michael, Ph.D., U. of California, Irvine. Prof., Science and Technology Studies
- Lyons, Thomas, Ph.D., Cornell U. Prof., Economics
- Maas, James B., Ph.D., Cornell U. Prof., Stephen H. Weiss Presidential Fellow, Psychology
- MacDonald, Scott, Ph.D., Cornell U. Prof., Norma K. Regan Professor in Christian Studies, Philosophy
- Macpike, Richard E., M.F.A., Boston U. Sr. Lec., Theatre, Film and Dance
- Macy, Michael W., Ph.D., Harvard U. Prof., Sociology
- Magaziner, Daniel R., Ph.D., U. of Wisconsin, Madison. Asst. Prof., History
- Mahowald, Natalie, Ph.D., Massachusetts Inst. of Technology. Assoc. Prof., Earth and Atmospheric Sciences
- Majumdar, Mukul K., Ph.D., U. of California, Berkeley. H. T. Warshaw and Robert Irving Warshaw Professor of Economics
- Maldonado-Méndez, Nilsa, Ph.D., SUNY Albany. Sr. Lec., Romance Studies
- Mankin, David P., Ph.D., U. of Virginia. Assoc. Prof., Classics
- Mann, Jenny, Ph.D., Northwestern U. Asst. Prof., English

- Manning, Sturt W., Ph.D. Cambridge U. Prof., Classics/Dendrochronology
- March, Kathryn S., Ph.D., Cornell U. Prof., Anthropology/Feminist, Gender & Sexuality Studies
- Marcus, Phillip L., Ph.D., Harvard U. Prof. Emeritus, English
- Margot, Jean-Luc, Ph.D., Cornell U. Asst. Prof., Astronomy/CRSR†/NAIC‡
- Marohn, John, Ph.D., California Inst. of Technology. Assoc. Prof., Chemistry and Chemical Biology
- Marschner, Steve, Ph.D., Cornell U. Assoc. Prof., Computer Science
- Marsit, Matthew, B.M., Temple U. Lec., Music
- Martin, Joseph A., M.A., Cornell U. Sr. Lec., Knight Institute for Writing in the Disciplines
- Martin, Sherry, Ph.D., U. of Michigan. Asst. Prof., Government/Feminist, Gender & Sexuality Studies
- Masson, Robert T., Ph.D., U. of California, Berkeley. Prof., Economics
- Matthews, Jeanna N., Ph.D., U. of California, Berkeley. Asst. Prof., Computer Science
- Matthias, Grit, M.A., Friedrich Schiller U. (Germany). Lec., German Studies
- Maxwell, Barry Hamilton, Ph.D., Stanford U. Sr. Lec., Comparative Literature
- Mazrui, Ali A., Ph.D., Oxford U. (England). Sr. Scholar, Africana Studies and Research Center and A. D. White Professor-at-Large Emeritus
- McAllister, Liam, Ph.D., Stanford U. Asst. Prof., Physics/LEPP¶
- McBride, Douglas, Ph.D., Indiana U., Bloomington. Sr. Lec., German Studies
- McBride, Patrizia C., Ph.D., Indiana U., Bloomington. Assoc. Prof., German Studies
- McCall, Dan E., Ph.D., Columbia U. Prof. Emeritus, English
- McCarrick, Thomas Arthur, M.S., Brock U. Sr. Lec., Chemistry
- McClane, Kenneth A., M.F.A., Cornell U. W.E.B. DuBois Professor of Literature, English
- McClelland, Peter D., Ph.D., Harvard U. Prof. Emeritus, Economics
- McConkey, James R., Ph.D., State U. of Iowa. Prof. Emeritus, English
- McConnell-Ginet, Sally, Ph.D., U. of Rochester. Prof. Emerita, Linguistics
- McCoy, Maureen, M.F.A., U. of Iowa. Prof., English
- McCrea, Lawrence, Ph.D., U. of Chicago. Asst. Prof., Asian Studies
- McCullough, M. Kate, Ph.D., U. of California, Berkeley. Assoc. Prof., English/Feminist, Gender, & Sexuality Studies
- McEuen, Paul L., Ph.D., Yale U. Prof., Physics, Physics/LASSP\*
- McGowan, Kaja, Ph.D., Cornell U. Assoc. Prof., History of Art
- McLafferty, Fred W., Ph.D., Cornell U. Peter J. W. Debye Emeritus Professor of Chemistry and Chemical Biology
- McMurry, John E., Ph.D., Columbia U. Prof. Emeritus, Chemistry and Chemical Biology
- McNeal, Robin, Ph.D., U. of Washington. Assoc. Prof., Asian Studies
- McNulty, Tracy, Ph.D., U. of California, Irvine. Assoc. Prof., Romance Studies/Comparative Literature
- McQuade, D. Tyler, Ph.D., U. of Wisconsin. Asst. Prof., Chemistry and Chemical Biology
- Mehta, Yufen Lee, M.A., National Taiwan Normal U. M.A., Brigham Young U. Sr. Lec., Asian Studies
- Mei, Tsu-Lin, Ph.D., Yale U. Hu Shih Prof. Emeritus of Chinese Literature and Philology, Asian Studies
- Meinwald, Jerrold, Ph.D., Harvard U. Goldwin Smith Professor Emeritus of Chemistry and Chemical Biology
- Meixner, Laura L., Ph.D., Ohio State U. Assoc. Prof., History of Art
- Melas, Natalie A., Ph.D., U. of California, Berkeley. Assoc. Prof., Comparative Literature
- Mermin, Dorothy M., Ph.D., Harvard U. Goldwin Smith Professor Emerita of English
- Mermin, N. David, Ph.D., Harvard U. Horace White Professor of Physics Emeritus, Physics/LASSP\*
- Merrill, Paul, M.M., Ithaca Coll. Lec., Music
- Mertens, Karel, Ph.D., European U. Inst. (Italy). Asst. Prof., Economics
- Mertha, Andrew, Ph.D., U. of Michigan. Assoc. Prof., Government
- Mettler, Suzanne, Ph.D., Cornell U. Clinton Rossiter Professor of American Institutions, Government
- Michler, Gerhard, Ph.D., Frankfurt U. Adjunct Prof., Mathematics
- Migiel, Marilyn, Ph.D., Yale U. Prof., Romance Studies
- Miller, Richard W., Ph.D., Harvard U. Prof., Philosophy/Science and Technology Studies
- Milles, Beth F., M.A., Harvard U. Assoc. Prof., Theatre, Film and Dance
- Mitra, Tapan, Ph.D., U. of Rochester. Prof., Goldwin Smith Professor of Economics
- Miyazaki, Hirokazu, Ph.D., Australian National U. Assoc. Prof., Anthropology
- Mize, Ronald, Ph.D., U. of Wisconsin, Madison. Asst. Prof., Latino Studies/Development Sociology
- Mohanty, Satya P., Ph.D., U. of Illinois. Prof., English
- Molinari, Francesca, Ph.D., Northwestern U. Asst. Prof., Economics
- Monosoff-Pancaldo, Sonya, Artists Diploma, Juilliard School of Music. Prof. Emeritus, Music
- Monroe, Chris, Ph.D., U. of Michigan. Sr. Lec., Near Eastern Studies
- Monroe, Jonathan B., Ph.D., U. of Oregon. Prof., Comparative Literature
- Monroe, Lauren, Ph.D., New York U. Asst. Prof., Near Eastern Studies
- Moore, Justin Thatch, Ph.D., U. of Toronto (Canada). Assoc. Prof., Mathematics
- Moore, R. Laurence, Ph.D., Yale U. Howard A. Newman Professor in American Studies, History
- Morató, Luis, B.A., U. San Simone; B.A., National Teachers Coll. of Suene. Sr. Lec., Romance Studies
- Morgan, Robert R., M.F.A., U. of North Carolina. Kappa Alpha Prof. of English
- Morgan, Stephen L., Ph.D., Harvard U. Assoc. Prof., Sociology
- Morgenroth, Joyce, M.A., Johns Hopkins U. Prof., Theatre, Film and Dance
- Morley, Michael D., Ph.D., U. of Chicago. Prof. Emeritus, Mathematics
- Morrison, George H., Ph.D., Princeton U. Prof. Emeritus, Chemistry and Chemical Biology
- Morrison, Kevin, Ph.D., Duke U. Asst. Prof., Government
- Mueller, Erich, Ph.D., U. of Illinois, Urbana Champaign. Asst. Prof., Physics/LASSP\*
- Mukherjee, Sreemati, M.A., Jadavpur U. (India). Lec., Asian Studies
- Munasinghe, Viranjini P., Ph.D., Johns Hopkins U. Assoc. Prof., Anthropology/Asian American Studies
- Murray, Timothy, Ph.D., Johns Hopkins U. Prof., English/Comparative Literature
- Muscalu, Florin Camil, Ph.D., Brown U. Asst. Prof., Mathematics
- Myers, Andrew, Ph.D., Massachusetts Inst. of Technology. Assoc. Prof., Computer Science
- Najemy, John M., Ph.D., Harvard U. Prof., History
- Nanji, Abdul, M.A., SUNY New Paltz. Sr. Lec., Africana Studies and Research Center
- Nee, Victor, Ph.D., Harvard U. Goldwin Smith Professor of Sociology
- Neisser, Ulric, Ph.D., Harvard U. Prof. Emeritus, Psychology
- Nerode, Anil, Ph.D., U. of Chicago. Goldwin Smith Professor of Mathematics
- Neubert, Matthias, Ph.D., Ruprecht-Karls-U., Heidelberg (Germany). Prof., Physics/LEPP¶
- Nicholson, Philip, Ph.D., California Inst. of Technology. Prof., Astronomy/CRSR†
- Njardarson, Jón, Ph.D., Yale U. Asst. Prof., Chemistry and Chemical Biology
- Norton, Mary Beth, Ph.D., Harvard U. Mary Donlon Alger Professor of American History, History
- Nussbaum, Alan, Ph.D., Harvard U. Prof., Classics/Linguistics
- Nussbaum, Michael, Dr. Sci., Academy of Sciences Berlin (Germany). Prof., Mathematics
- O'Connor, Stanley J., Ph.D., Cornell U. Prof. Emeritus, History of Art
- O'Donoghue, Ted, Ph.D., U. of California, Berkeley. Assoc. Prof., Economics
- Oja, Shambhu, M.A., Tribhubon U. (Nepal). Sr. Lec., Asian Studies
- Oliveira, Jurandir, Ph.D., U. of North Carolina, Chapel Hill. Sr. Lec., Romance Studies
- Oliver, Jack E., Ph.D., Columbia U. Prof. Emeritus, Earth and Atmospheric Sciences
- Orear, Jay, Ph.D., U. of Chicago. Prof. Emeritus, Physics/LEPP¶
- Orlov, S., Ph.D., Cornell U. Sr. Lec., Knight Institute for Writing in the Disciplines
- Orlov, Yuri, Ph.D., Institute for Theoretical and Experimental Physics. Prof., Government
- Owen, David I., Ph.D., Brandeis U. Bernard and Jane Schapiro Professor of Assyriology, Ancient Near Eastern History and Archaeology, Near Eastern Studies
- Padamsee, Hasan, Ph.D., Northeastern U. Adj. Prof., Physics/LEPP¶
- Palmer, Robert M., M.M., Eastman School of Music. Given Foundation Professor Emeritus of Music Composition, Music
- Pan, An-yi, Ph.D., U. of Kansas. Assoc. Prof., History of Art
- Pandin, Jolanda, M.S.C., U. of Wisconsin, Madison. Lec., Asian Studies
- Paperno, Slava, M.A. equivalent, Leningrad State U. (Russia). M.A. equivalent, Cornell U. Sr. Lec., Russian
- Park, Jiwoong, Ph.D., U. of California, Berkeley. Asst. Prof., Chemistry and Chemical Biology
- Parker, A. Reeve, Ph.D., Harvard U. Prof., English
- Parmenter, Jon, Ph.D., U. of Michigan. Assoc. Prof., History
- Parpia, Jeevak M., Ph.D., Cornell U. Prof., Physics/LASSP\*
- Parra, Pilar, Ph.D., U. of Wisconsin, Madison. Sr. Lec., Latino Studies
- Parrish, Stephen M., Ph.D., Harvard U. Goldwin Smith Professor of English Emeritus
- Pass, Rafael, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Computer Science
- Patel, David S., Ph.D., Stanford U. Asst. Prof., Government

- Paterson, Lorraine M., Ph.D., Yale U. Asst. Prof., Asian Studies
- Patterson, J. Ritchie, Ph.D., U. of Chicago. Prof., Physics/LEPP¶
- Patti, Lisa, ABD, Cornell U. Adjunct Asst. Prof., Theatre, Film & Dance
- Payne, Lawrence E., Ph.D., Iowa State U. Prof. Emeritus, Mathematics
- Paz-Soldán, José E., Ph.D., U. of California, Berkeley. Prof., Romance Studies
- Peeva, Irena, Ph.D., Brandeis U. Asst. Prof., Mathematics
- Pelliccia, Hayden, Ph.D., Yale U. Assoc. Prof., Classics
- Pepinsky, Thomas, Ph.D., Yale U. Asst. Prof., Government
- Peraino, Judith A., Ph.D., U. of California, Berkeley. Assoc. Prof., Music
- Pereboom, Derk, Ph.D., U. of California, Los Angeles. Prof., Philosophy
- Perelstein, Maxim, Ph.D., U. of California, Los Angeles. Asst. Prof., Physics/LEPP¶
- Pérez del Solar, Pedro, Ph.D., Princeton U. Lec., Romance Studies
- Petersen, Poul, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Chemistry and Chemical Biology
- Peterson, Charles A., Ph.D., U. of Washington. Prof. Emeritus, History
- Phan, Hannah, M.P.S., Cornell U. Lec., Asian Studies
- Phipps Morgan, Jason, Ph.D., Brown U. Prof., Earth and Atmospheric Sciences
- Pierpont, Judith, M.A., Teachers Coll., Columbia U. Sr. Lec., Knight Institute for Writing in the Disciplines
- Pinch, Trevor J., Ph.D., U. of Bath (England). Prof., Science and Technology Studies
- Pinet, Simone, Ph.D., Harvard U. Assoc. Prof., Romance Studies
- Pintner, Walter M., Ph.D., Harvard U. Prof. Emeritus, History
- Pizarro, David A., Ph.D., Yale U. Asst. Prof., Psychology
- Plane, Robert A., Ph.D., U. of Chicago. Prof. Emeritus, Chemistry
- Pohl, Robert O., Doktor, U. of Erlangen (Germany). Prof. Emeritus, Physics/LASSP\*
- Polenberg, Richard, Ph.D., Columbia U. Goldwin Smith Professor of American History, History
- Pollak, Nancy, Ph.D., Yale U. Assoc. Prof., Russian
- Pond, Steven, Ph.D., U. of California, Berkeley. Assoc. Prof., Music
- Porte, Helene Sophrin, Ph.D., Harvard U. Sr. Lec., Psychology
- Possen, Rhoda, Ph.D., Yale U., Sr. Lec., Romance Studies
- Possen, Uri M., Ph.D., Yale U. Prof., Economics
- Power, Alison G., Ph.D., U. of Washington. Prof., Science and Technology Studies/Ecology and Evolutionary Biology
- Powers, David S., Ph.D., Princeton U. Prof., Near Eastern Studies
- Prentice, Rachel, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Science and Technology Studies
- Pritchard, Matthew, Ph.D., California Inst. of Technology. Asst. Prof., Earth and Atmospheric Sciences
- Pritchard, Sara, Ph.D., Stanford Ux. Asst. Prof., Science and Technology Studies
- Provine, William B., Ph.D., U. of Chicago. Prof., History/Biological Sciences
- Pucci, Pietro, Ph.D., U. of Pisa (Italy). Goldwin Smith Professor of Classics
- Quiñonez, Ernesto, M.A., CUNY. Asst. Prof., English
- Radzinowicz, Mary A., Ph.D., Columbia U. Jacob Gould Schurman Professor of English Emerita
- Ralph, Daniel C., Ph.D., Cornell U. Prof., Physics/LASSP\*
- Ramage, Andrew, Ph.D., Harvard U. Prof., History of Art
- Ramakrishna, Ravi, Ph.D., Princeton U. Assoc. Prof., Mathematics
- Raskolnikov, Masha, Ph.D., U. of California, Berkeley. Assoc. Prof., English
- Rawlings III, Hunter R., Ph.D., Princeton U. Prof., Classics/History
- Razin, Assaf, Ph.D., U. of Chicago. Friedman Professor of International Economics, Economics
- Rebillard, Eric, Ph.D., U. of Paris (France). Prof., Classics/History
- Redmond, Mary Kathryn, M.A.T., School for International Training, Brattleboro, Vt. Sr. Lec., Romance Studies
- Regan, Dennis T., Ph.D., Stanford U. Assoc. Prof., Psychology
- Regan, Elizabeth Adkins, Ph.D., U. of Pennsylvania. Prof., Psychology/Biological Sciences
- Reppy, John D., Ph.D., Yale U. John L. Wetherill Professor Emeritus of Physics, Physics/LASSP\*
- Reppy, Judith, Ph.D., Cornell U. Prof., Science and Technology Studies
- Rhodes, Frank H. T., Ph.D., U. of Birmingham (England). Prof. Emeritus/President
- Richards, Annette, Ph.D., Stanford U. Prof., Music
- Richardson, Betty McCarthy, Ph.D., Duke U. Sr. Lec., Physics
- Richardson, Riché, Ph.D., Duke U. Assoc. Prof., African Studies and Research Center
- Richardson, Robert C., Ph.D., Duke U. F. R. Newman Professor of Physics/LASSP\*
- Rickard, Jolene, Ph.D., SUNY Buffalo. Asst. Prof., History of Art/ART
- Riha, Susan J., Ph.D., Washington State U. Prof., Earth and Atmospheric Sciences
- Riles, Annelise, Ph.D., Cambridge U. (England). Prof., Anthropology
- Rivchin, Marilyn, M.F.A., Cornell U. Sr. Lec., Theatre, Film and Dance
- Roberts, Kenneth, Ph.D., Stanford U. Prof., Government
- Robcis, Camille, Ph.D., Cornell U. Asst. Prof., History
- Robinson, Cynthia, Ph.D., U. of Pennsylvania. Asst. Prof., History of Art
- Rodríguez-García, José María, Ph.D., U. of Colorado. Assoc. Prof., Romance Studies
- Roldan, Mary J., Ph.D., Harvard U. Assoc. Prof., History
- Rooth, Mats, Ph.D., U. of Massachusetts, Amherst. Prof., Linguistics
- Rosen, Bernard C., Ph.D., Cornell U. Prof. Emeritus, Sociology
- Rosen, Carol G., Ph.D., Harvard U. Prof., Linguistics
- Rosen, David, Ph.D., U. of California, Berkeley. Prof. Emeritus, Music
- Rosenberg, Alex, Ph.D., U. of Chicago. Prof. Emeritus, Mathematics
- Rosenberg, Edgar, Ph.D., Stanford U. Prof., Emeritus of English/Comparative Literature
- Rossiter, Margaret, Ph.D., Yale U. Marie Underhill Noll Professor of the History of Science, Science and Technology Studies
- Routier-Pucci, Jeannine Suzanne, D.E.A., École des Hautes Études (Paris, France). Sr. Lec., Romance Studies
- Rubenstein, Diane, Ph.D., Yale U. Prof., Government
- Rubin, David L., Ph.D., U. of Michigan. Boyce D. McDaniel Prof. of Physics, Physics/LEPP¶
- Ruff, Carin, Ph.D., U. of Toronto. Asst. Prof., English/Medieval Studies
- Ruppel, Antonia, Ph.D., Cambridge U. Townsend Lecturer of Greek, Latin and Sanskrit, Classics
- Rush, Myron, Ph.D., U. of Chicago. Prof. Emeritus, Government
- Rusk, Bruce, Ph.D., U. of California, Los Angeles. Asst. Prof., Asian Studies
- Russell, Nerissa, Ph.D., U. of California, Berkeley. Assoc. Prof., Anthropology
- Rusten, Jeffrey S., Ph.D., Harvard U. Prof., Classics
- Ryd, Anders, Ph.D., U. of California, Santa Barbara. Asst. Prof., Physics/LEPP¶
- Saccamano, Neil, Ph.D., Johns Hopkins U. Assoc. Prof., English/Comparative Literature
- Sachs, Aaron, Ph.D., Yale U. Asst. Prof., History
- Sakai, Naoki, Ph.D., U. of Chicago. Prof., Asian Studies/Comparative Literature
- Saloff-Coste, Laurent, Ph.D., U. of Paris VI (France). Prof., Mathematics
- Salvato, Nicholas, Ph.D., Yale U. Asst. Prof., Theatre, Film, and Dance
- Salvatore, Nicholas, Ph.D., U. of California, Berkeley. Prof., Industrial and Labor Relations/American Studies
- Samuels, Shirley, Ph.D., U. of California, Berkeley. Prof., English/History of Art
- Sanchez, Arturo Ignacio, Ph.D., Columbia U. Asst. Prof., Latino Studies/City and Regional Planning
- Sanders, Elizabeth, Ph.D., Cornell U. Prof., Government
- Sangren, P. Steven, Ph.D., Stanford U. Prof., Anthropology
- Santiago-Irizarry, Vilma, Ph.D., New York U. Assoc. Prof., Anthropology and Latino Studies
- Savella, Maria T. C., M.A., U. of the Philippines-Diliman; M.A., Cornell U. Sr. Lec., Asian Studies
- Sawyer, Paul L., Ph.D., Columbia U. Prof., English
- Sayers, William J., Ph.D., U. of California, Berkeley. Adj. Prof., Comparative Literature
- Scharf, Nava, M.A., Levinsky Seminary, Tel Aviv (Israel). Sr. Lec., Near Eastern Studies
- Schatz, Alfred H., Ph.D., New York U. Prof., Mathematics
- Scheraga, Harold A., Ph.D., Duke U. George W. and Grace L. Todd Professor Emeritus of Chemistry and Chemical Biology
- Schneider, Fred B., Ph.D., SUNY Stony Brook. Samuel B. Eckert Professor of Computer Science
- Schuler, Richard E., Ph.D., Brown U. Prof. Emeritus, Economics/Engineering
- Schwab, Keith, Ph.D., U. of California, Berkeley. Assoc. Prof., Physics/LASSP\*
- Schwarz, Anette, Ph.D., Johns Hopkins U. Fredric J. Whiton Professor of German Studies
- Schwarz, Daniel R., Ph.D., Brown U. Fredric J. Whiton Professor of English, English
- Segal, Harry, Ph.D., U. of Michigan. Sr. Lec., Psychology
- Selby, Katherine, Ph.D., U. of California, Berkeley. Sr. Lec., Physics
- Self, James T., B.A., Cornell U. Sr. Lec., Theatre, Film, and Dance
- Selman, Bart, Ph.D., U. of Toronto (Canada). Prof., Computer Science
- Sen, Shankar, Ph.D., Harvard U. Prof., Mathematics

- Senderovich, Savelly, Ph.D., New York U. Prof., Russian
- Sengers, Phoebe, Ph.D., Carnegie-Mellon U. Asst. Prof., Science and Technology Studies/Computing and Information Science
- Seth, Suman, Ph.D., Princeton U. Asst. Prof., Science and Technology Studies
- Sethi, Neelam, Ph.D., U. of California, San Diego. Lec., Philosophy
- Sethna, James P., Ph.D., Princeton U. Prof., Physics/LASSP\*
- Seznec, Alain, D.E.S., U. of Paris-Sorbonne (France). Prof. Emeritus, Romance Studies
- Shao, Weng Teng, M.A., Tsinghua U. (China). Lec., Asian Studies
- Shapiro, Elliot Hart, Ph.D., U. of Rochester. Sr. Lec., Knight Institute for Writing in the Disciplines
- Shapiro, Gavriel, Ph.D., U. of Illinois, Urbana-Champaign. Prof., Russian
- Shaw, Harry E., Ph.D., U. of California, Berkeley. Prof., English
- Shefter, Martin A., Ph.D., Harvard U. Prof., Government
- Shell, Karl, Ph.D., Stanford U. Robert Julius Thorne Professor of Economics
- Shen, Kyle M., Ph.D., Stanford U. Asst. Prof., Physics/LASSP\*
- Shmoys, David B., Ph.D., U. of California, Berkeley. Prof., Computer Science
- Shoemaker, Sydney S., Ph.D., Cornell U. Professor Emeritus, Philosophy
- Shoer, Shalom, B.A., Cornell U. Sr. Lec., Near Eastern Studies
- Shore, Richard A., Ph.D., Massachusetts Inst. of Technology. Prof., Mathematics
- Siegel, James T., Ph.D., U. of California, Berkeley. Prof. Emeritus, Anthropology
- Siegel, Sandra F., Ph.D., U. of Chicago. Prof. Emerita, English
- Sierra, Roberto, M.M., London U. (England). Old Dominion Foundation Professor in the Humanities, Music
- Sievers, Albert J. III, Ph.D., U. of California, Berkeley. Edward L. Nichols Professor, Physics/LASSP\*
- Siggia, Eric, Ph.D., Harvard U. Adj. Prof., Physics/LASSP\*
- Silbey, Joel H., Ph.D., U. of Iowa. President White Professor of American History Emeritus, History
- Silins, Nicholas, Ph.D., Oxford U. Asst. Prof., Philosophy
- Silsbee, Robert H., Ph.D., Harvard U. Prof. Emeritus, Physics/LASSP\*
- Silverman, Albert, Ph.D., U. of California, Berkeley. Prof. Emeritus, Physics/LEPP¶
- Singh, Sujata, B.A., Kashi Vidyapeeth U. (India). Lec., Asian Studies
- Sirer, Emin Gun, Ph.D., U. of Washington. Assoc. Prof., Computer Science
- Sjamaar, Reyer, Ph.D., Rijksuniversiteit te Utrecht (The Netherlands). Assoc. Prof., Mathematics
- Small, Meredith F., Ph.D., U. of California, Davis. Prof., Anthropology
- Smillie, John, Ph.D., U. of Chicago. Prof., Mathematics
- Smith, Anna Marie, Ph.D., U. of Essex (England). Prof., Government
- Smith, David M., Ph.D., U. of Illinois. Asst. Prof., Psychology
- Smith, Robert J., Ph.D., Cornell U. Goldwin Smith Professor of Anthropology Emeritus
- Snavelly, Noah, Ph.D., U. of Washington. Asst. Prof., Computer Science
- Sogah, Dotsevi Y., Ph.D., U. of California, Los Angeles. Prof., Chemistry and Chemical Biology
- Sokol, Thomas A., M.A., George Peabody Coll. Prof. Emeritus, Music
- Song, Meejeong, Masters in Korean Stds, Ewha Women's U. (Korea). Lec., Asian Studies
- Soule, Sara, Ph.D., Cornell U. Prof., Sociology
- Sparfel, Christine, Mathématiques-Physique I and DEUG. Sr. Lec., Romance Studies
- Speh, Birgit, Ph.D., Massachusetts Inst. of Technology. Prof., Mathematics
- Squyres, Steven W., Ph.D., Cornell U. Goldwin Smith Professor of Astronomy/CRSR†
- Stacey, Gordon J., Ph.D., Cornell U. Prof., Astronomy/CRSR†
- Staller, George J., Ph.D., Cornell U. Prof. Emeritus, Economics
- Starr, Deborah A., Ph.D., U. of Michigan. Assoc. Prof., Near Eastern Studies
- Stein, Peter C., Ph.D., Massachusetts Inst. of Technology. Prof. Emeritus, Physics/LEPP¶
- Stern, Robert, Ph.D., Vanderbilt U. Prof., Sociology/Industrial and Labor Relations
- Stillman, Michael E., Ph.D., Harvard U. Prof., Mathematics
- Stith, Marice W., M.A., Ohio State U. Prof. Emeritus, Music
- Strang, David, Ph.D., Stanford U. Prof., Sociology
- Stratakos Tió, Amalia, M.S., Syracuse U. Sr. Lec., Romance Studies
- Strauss, Barry S., Ph.D., Yale U. Prof., History/Classics
- Strichartz, Robert S., Ph.D., Princeton U. Prof., Mathematics
- Strout, S. Cushing, Jr., Ph.D., Harvard U. Ernest I. White Professor of American Studies and Humane Letters, Emeritus, English
- Stucky, Steven, D.M.A., Cornell U. Given Foundation Professor of Music
- Sturgeon, Nicholas L., Ph.D., Princeton U. Prof., Philosophy
- Suber, Paul Byron, B.A., Cornell U. Sr. Lec., Theatre, Film and Dance
- Sukle, Robert Joseph, M.A., Cornell U. Sr. Lec., Asian Studies
- Suñer, Margarita A., Ph.D., Indiana U. Prof. Emerita, Linguistics
- Suzuki, Misako, M.A., Ohio State U. Sr. Lec., Asian Studies
- Swartz, Edward, Ph.D., U. of Maryland, College Park. Asst. Prof., Mathematics
- Swedberg, Richard, Ph.D., Boston Coll.. Prof., Sociology
- Sweedler, Moss E., Ph.D., Massachusetts Inst. of Technology. Prof. Emeritus, Mathematics
- Taavola, Kristin, Ph.D., Eastman School of Music. Asst. Prof., Music
- Tagliacozzo, Eric, Ph.D., Yale U. Assoc. Prof., History
- Talman, Richard M., Ph.D., California Inst. of Technology. Prof. Emeritus, Physics/LEPP¶
- Tardos, Evá, Ph.D., Eötvös U. (Hungary). Prof., Computer Science
- Tarrow, Susan, Ph.D., Cornell U. Adjunct Assoc. Prof., Romance Studies
- Tarrow, Sidney G., Ph.D., U. of California, Berkeley. Maxwell M. Upson Professor of Government
- Taylor, Erin, Ph.D., U. of California, Los Angeles. Asst. Prof., Philosophy
- Taylor, Keith W., Ph.D., U. of Michigan. Prof., Asian Studies
- Teitelbaum, Tim, Ph.D., Carnegie-Mellon U. Assoc. Prof., Computer Science
- Teng, Qiuyun, M.A., Cornell U. Sr. Lec., Asian Studies
- Terrell, Maria Shea, Ph.D., U. of Virginia. Sr. Lec., Mathematics
- Terrell, Robert, Ph.D., U. of Virginia. Sr. Lec., Mathematics
- Terzian, Yervant, Ph.D., Indiana U. David C. Duncan Professor in the Physical Sciences, Astronomy/NAIC‡
- Teukolsky, Saul A., Ph.D., California Inst. of Technology. Hans A. Bethe Professor of Physics and Astronomy, Physics/LEPP¶/Astronomy
- Teutli, Brisa, M.A., U. de las Américas-Puebla. Sr. Lec., Romance Studies
- Thom, Julia, Ph.D., U. of Hamburg (Germany). Asst. Prof., Physics/LEPP¶
- Thorbecke, Erik, Ph.D., U. of California, Berkeley. H. Edward Babcock Professor of Economics and Food Economics Emeritus, Nutritional Sciences/Economics
- Thorne, Robert E., Ph.D., U. of Illinois. Prof., Physics/LASSP\*
- Thurston, William P., Ph.D., U. of California, Berkeley. Prof., Mathematics
- Tierney, Brian, Ph.D., Pembroke Coll. of Cambridge U. (England). Bryce and Edith M. Bowman Professor in Humanistic Studies Emeritus, History
- Tigner, Maury, Ph.D., Cornell U. Hans Bethe Prof. of Physics, Emeritus, Physics/LEPP¶
- Tolbert, Pamela, Ph.D., U. of California, Los Angeles Assoc. Prof., Sociology/Industrial and Labor Relations
- Toorawa, Shawkat, Ph.D., U. of Pennsylvania. Assoc. Prof., Near Eastern Studies
- Tranviet, Thuy D., M.A., U. of Michigan. Sr. Lec., Asian Studies
- Travers, T. Robert, Ph.D., Gonville and Caius Coll. Assoc. Prof., History
- Tsimberov, Viktoria, M.S., Leningrad Inst. of Chemical Technology (Russia). Sr. Lec., Russian
- Tsyrennikov, Viktor, Ph.D., New York U. Asst. Prof., Economics
- Tucker, Scott, M.M., New England Conservatory. Prof., Music
- Tun, San San Hnin, Ph.D., U. of Nottingham (England). Sr. Lec., Romance Studies/Asian Studies
- Turcotte, Donald L., Ph.D., California Inst. of Technology. Prof. Emeritus, Earth and Atmospheric Sciences
- Turner, James E., Ph.D., Union Graduate School at Antioch Coll. Prof., Africana Studies and Research Center
- Turner, Terrence, Ph.D., Harvard U. Adj. Prof., Anthropology
- Tye, Sze-hoi Henry, Ph.D., Massachusetts Inst. of Technology. Horace White Prof. of Physics, Physics/LNS¶
- Umrigar, Cyrus, Ph.D., Northwestern U. Adj. Prof., Physics/LASSP\*
- Uphoff, Norman T., Ph.D., U. of California, Berkeley. Prof. Emeritus, Government
- Usher, David A., Ph.D., Cambridge U. (England). Assoc. Prof., Chemistry and Chemical Biology
- Vallois, Marie-Claire, Ph.D., U. of Nice (France). Assoc. Prof., Romance Studies
- Van Clief-Stefanon, Lyrae, M.F.A., Pennsylvania State. Asst. Prof., English
- van de Walle, Nicolas, Ph.D., Princeton U. John S. Knight Professor of International Studies, Government
- Van Dyke, Alison. Sr. Lec., Theatre, Film, and Dance
- Vanek, Jaroslav, Ph.D., Massachusetts Inst. of Technology. Carl Marks Professor of International Studies Emeritus, Economics
- Van Loan, Charles F., Ph.D., U. of Michigan. Joseph C. Ford Prof. of Engineering, Computer Science
- Vaughn, Stephanie, M.F.A., U. of Iowa. Prof., English

- Velez, Hector, Ph.D., Cornell U. Adj. Assoc. Prof., Sociology
- Vengalattore, Mukund, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Physics/LASSP
- Verhoeven, Claudia, Ph.D., U. of California, Los Angeles. Asst. Prof., History
- Veverka, Joseph F., Ph.D., Harvard U. James A. Weeks Professor of Physical Sciences, Astronomy/CRSR†
- Villarejo, Amy, Ph.D., U. of Pittsburgh. Assoc. Prof., Theatre, Film and Dance/Feminist, Gender, & Sexuality Studies
- Viramontes, Helena M., M.F.A., U. of California, Irvine. Prof., English
- Vladimirsky, Alexander, Ph.D., U. of California, Berkeley. Asst. Prof., Mathematics
- Vogel, Kathleen, Ph.D., Princeton U. Asst. Prof., Science and Technology Studies
- Vogtmann, Karen L., Ph.D., U. of California, Berkeley. Prof., Mathematics
- Volman, Thomas P., Ph.D., U. of Chicago. Assoc. Prof., Anthropology
- Wagner, Michael, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Linguistics
- Wahlbin, Lars B., Ph.D., U. of Göteborg (Sweden). Prof., Mathematics
- Waite, Geoffrey C. W., Ph.D., Princeton U. Assoc. Prof., German Studies
- Waldron, Colette Denise, M.A. equiv., Faculté De Lettres, Besancon (France). Sr. Lec., Romance Studies
- Wan, Henry Y., Jr., Ph.D., Massachusetts Inst. of Technology. Prof., Economics
- Wang, Michelle D., Ph.D., U. of Michigan. Assoc. Prof., Physics/LASSP\*
- Warner, Ding Xiang, Ph.D., U. of Washington. Assoc. Prof., Asian Studies
- Warner, Sara, Ph.D., Rutgers U. Asst. Prof., Theatre, Film, and Dance
- Washington, Margaret, Ph.D., U. of California, Davis. Prof., History
- Wasserman, Ira M., Ph.D., Harvard U. Prof., Astronomy/Physics/CRSR†
- Waugh, Linda R., Ph.D., Indiana U. Prof. Emerita, Romance Studies/Comparative Literature
- Way, Christopher, Ph.D., Stanford U. Assoc. Prof., Government
- Weatherspoon, Hakim, Ph.D., U. of Washington. Asst. Prof., Computer Science
- Webster, James, Ph.D., Princeton U. Goldwin Smith Professor of Music
- Weeden, Kim, Ph.D., Stanford U. Asst. Prof., Sociology
- Weeks, Jessica, Ph.D., Stanford U. Asst. Prof., Government
- Weil, Rachel, Ph.D., Princeton U. Assoc. Prof., History
- Weiss, John H., Ph.D., Harvard U. Assoc. Prof., History
- Weiss, Michael, Ph.D., Cornell U. Prof., Linguistics
- Welker, Marina, Ph.D., U. of Michigan. Asst. Prof., Anthropology
- West, James E., Ph.D., Louisiana State U. Prof., Mathematics
- Wetherbee, Winthrop, Ph.D., U. of California, Berkeley. Avalon Professor of English and Medieval Studies Emeritus, English/Medieval Studies
- Wethington, Elaine, Ph.D., U. of Michigan. Assoc. Prof., Sociology/Human Development
- White, William M., Ph.D., U. of Rhode Island. Prof., Earth and Atmospheric Sciences
- Whitman, John B., Ph.D., Harvard U. Prof., Linguistics
- Widom, Benjamin, Ph.D., Cornell U. Goldwin Smith Professor Emeritus of Chemistry and Chemical Biology
- Wilcox, Charles F., Jr., Ph.D., U. of California, Los Angeles. Prof. Emeritus, Chemistry and Chemical Biology
- Wilks, Daniel S., Ph.D., Oregon State U. Prof., Earth and Atmospheric Sciences
- Willford, Andrew C., Ph.D., U. of California, San Diego. Assoc. Prof., Anthropology
- Williams, L. Pearce, Ph.D., Cornell U. John Stambaugh Professor of the History of Science Emeritus, Science and Technology Studies
- Wissink, Jennifer Parker, Ph.D., U. of Pennsylvania. Sr. Lec., Economics
- Wittich, Peter, Ph.D., U. of Pennsylvania. Asst. Prof., Physics/LEPP¶
- Wolczanski, Peter T., Ph.D., California Inst. of Technology. George W. and Grace L. Todd Professor of Chemistry and Chemical Biology
- Wolff, John U., Ph.D., Yale U. Prof. Emeritus, Linguistics/Asian Studies
- Wong, Shelley, Ph.D., U. of California, Berkeley. Assoc. Prof., English/Asian American Studies
- Woubshet, Dagmawi, Ph.D., Harvard U. Asst. Prof., English
- Wysocki, Mark W., M.S., Cornell U. Sr. Lec., Earth and Atmospheric Sciences
- Xu, Xin, Ph.D., Adj. Assoc. Prof., Government; Sr. Lec., China and Asia Pacific Studies
- Yampolsky, Miryam, M.M., Peabody Conservatory of Music. Lec., Music
- Yan, Haiping, Ph.D., Cornell U. Prof., Theatre, Film & Dance
- Yan, Tung-Mow, Ph.D., Harvard U. Prof., Physics/LEPP¶
- Yearsley, David G., Ph.D., Stanford U. Assoc. Prof., Music
- Younes, Munther A., Ph.D., U. of Texas, Austin. Sr. Lec., Near Eastern Studies
- Zabih, Raman, Ph.D., Stanford U. Prof., Computer Science
- Zacher, Samantha, Ph.D., U. of Toronto (Canada). Asst. Prof., English
- Zaslaw, Neal A., Ph.D., Columbia U. Herbert Gussman Professor of Music
- Zax, David B., Ph.D., U. of California, Berkeley. Assoc. Prof., Chemistry and Chemical Biology
- Zayas, Vivian, Ph.D., U. of Washington. Asst. Prof., Psychology
- Zec, Draga, Ph.D., Stanford U. Prof., Linguistics
- Zhu, Tao, Ph.D., Pennsylvania State U. Asst. Prof., Economics
- Zittel, Thomas, Ph.D., U. of Mannheim. Visiting Assoc. Prof., Government

\*Laboratory of Atomic and Solid State Physics.

†Center for Radiophysics and Space Research

‡National Astronomy and Ionosphere Center

¶Laboratory of Elementary Particle Physics

#Institute for the Study of the Continents