

# College of Liberal Arts and Sciences

Ross MacKinnon, Ph.D., Dean, *College of Liberal Arts and Sciences*  
 Harry Frank, Ph.D., Associate Dean, *College of Liberal Arts and Sciences*  
 Ronald Growney, Ph.D., Associate Dean, *College of Liberal Arts and Sciences*  
 Anne L. Hiskes, Ph.D., Associate Dean, *College of Liberal Arts and Sciences*

## Admission Requirements

The college requires 16 high school units including:

- 4 years of English
- 3 years of mathematics, with 4 preferred
- 2 years of a single foreign language, with 3 preferred
- 2 years of a laboratory science
- 2 years of social science

The Transfer Admissions Office reviews credits from other institutions. Unless exempted by the Dean or the Assistant Vice Provost, students shall take all of their course work at the University during the last two semesters.

## Bachelor's Degree Requirements

To graduate a student must:

1. earn a total of 120 credits.
2. earn at least 45 credits numbered 200 or above.
3. meet the College of Liberal Arts and Sciences (from the list that follows) General Education and concentration requirements.
4. have an overall grade point average of at least 2.0 and a grade point average of at least 2.0 in the courses presented in satisfaction of major requirements.

### Field of Concentration

Students may meet this requirement by completing the courses described in 1 or 2 below. Only courses taken at the University of Connecticut meet the requirement. Students may not use Pass/Fail courses to meet these requirements. Exceptions are made by the dean of the college.

**1. Major and related groups.** The field of concentration includes both the major and related groups; it must total at least 36 credits, all numbered 200 or above. At least 24 credits in one department, or with the permission of the head of the student's major department, in two related departments, make up the major group. At least 12 credits in courses closely related to the student's major, but outside the major department, make up the related group. Students must earn an overall grade point average of at least 2.0 and a grade point average of at least 2.0 in the courses presented in satisfaction of major requirements.

**2. Double Major Program.** Students may earn a double major by selecting two majors within the College. A minimum of 48 credits without overlap is required to earn both majors. Therefore, students may not be able to double major if the two majors they choose require the same courses and prevent them from earning 48 credits without overlap. Acceptance into the Double Major program requires the Dean's approval. Students shall choose one of the two majors as their primary major and shall receive one degree appropriate to that major. (Note: students cannot choose one major from the College of Liberal Arts and Sciences and a second from another school or college. This combination is only possible through the Additional Degree program, explained in the "Academic Regulations" section of this Catalog.)

### Plan of Study

Students shall file with the department of their major, after approval by their major academic advisor, a tentative plan of study on a form provided by the advisor. Students must file the tentative plan of study by the beginning of advance registration in their fifth semester.

Students shall file a final plan of study with the Registrar by the end of the fourth week of the semester in which they expect to graduate. The advisor and the department head shall approve the final plan of study.

Students completing a double major must file a plan of study for each major.

## Bachelor's Degree Requirements

### Bachelor of Arts (BA) and Bachelor of Science (BS)

As well as satisfying all University General Education requirements, students must also satisfy the following requirements for a Bachelor of Arts (BA) or Bachelor of Science (BS) degree. To determine whether a given major can lead to the BA, the BS, or both, consult the descriptions of majors below.

**Foreign Languages:** All students must have either (1) passed a third-year high school-level course in a single foreign language, (2) high school work and an added year of intermediate level college courses, or (3) two years of a single foreign language through the intermediate level in college.

**Expository Writing:** All students must take English 110 or 111, and three W courses, two required at the 200-level with at least one 200-level W course approved for use in the major field of study. No student who has not passed the writing component of W courses may pass the course.

**Quantitative Reasoning:** Three Q courses, at least one of which must be in Mathematics or Statistics. Students should contact the Q-advising contours, accessible on-line, and their advisers to determine the adequacy of their preparedness for specific Q-courses. Q courses may be used to satisfy other degree requirements.

**Computer Competency:** Unless an additional requirement is specified in a major, the Computer Technology Competency exit requirement for students in the College of Liberal Arts and Sciences does not go beyond the University's entrance requirement.

The courses in the University General Education content areas one, two, and three and the areas indicated below must be taken in at least eight different academic units.

### Bachelor of Arts (BA):

Five courses, including at least one from each of areas A-D. Courses must be from at least four different academic units.

### Bachelor of Science (BS):

Four courses, including one course from each of areas A-D. Courses must be from at least four different academic units.

#### A. Arts:

ART 135  
 ARTH 137, 138, 191  
 DRAM 101, 110  
 FINA 183  
 FREN 171  
 GERM 171, 281W, 284W  
 ILCS 149, ILCS 258/W, 260W  
 MUSI 190, MUSI 191  
 SPAN 250  
 WS 104

#### B. Literature:

CAMS 101, 102, 103  
 CLCS 102  
 ENGL 112/W, 113/W, 127/W, 130, 205, 206, 210, 216, 219  
 FREN 184, 230, 234\*, 261W\*, 262W\*, 270W  
 GERM 140W, 252W, 253W, 254W, 255W  
 HEB/JUDS 103  
 ILCS 101, 158, 255W  
 SPAN 187, 282\*

#### C. History:

ECON 201/201W, 203/203W  
 GEOG 130/URBN 130  
 HIST 100, 101, 108, 121, 131/W, 132/W  
 HIST/SCI 206

\* indicates foreign-language pre-requisite.

**D. Philosophical/ethical analysis:**

LING 101  
 PHIL 101, 102, 103, 104, 105/105W, 106, 107, 175, 185W  
 POLS 106

**E. World cultures:**

AASI 201  
 AASI/HIST 268  
 ANTH 269  
 FREN 184, 196, 210\*, 211\*, 218, 224, 267W\*, 268W\*  
 GERM 169, 251, 258  
 HIST 106, 205  
 ILCS 160  
 INTD 294  
 SPAN 188

**Bachelor of Science Only:**

All of the following:

One of the Chemistry sequences:  
 CHEM 124Q, 125Q, 126Q  
 CHEM 127Q, 128Q  
 CHEM 129Q, 130Q  
 CHEM 137Q, 138Q

One of the Mathematics sequences:  
 MATH 112Q, 113Q, 114Q  
 MATH 115Q, 116Q

One of the following:  
 MATH 210Q, 211Q, 220Q, 221Q  
 BIOL 107, 108

One of the Physics sequences:  
 PHYS 121Q, 122Q and PHYS 123Q  
 PHYS 131Q, 132Q  
 PHYS 141Q, 142Q  
 PHYS 151Q, 152Q

\* indicates foreign-language pre-requisite.

**American Studies**

The American Studies Program at the University of Connecticut provides students with the opportunity to gain a critical understanding of the American experience while allowing individual students to define what aspects of that experience they would like to explore. Although our required courses focus largely on the United States, the field is now understood as comprising the study of issues and subjects from throughout the Western Hemisphere. Among the goals of the American Studies curriculum is to promote an awareness of complex cultural, political, and economic structures at the root of the social organizations that have existed throughout the history of what has come to be known as the "New World." Other areas of concentration may include, for example, the ways in which literary, musical, and visual artists have articulated cultural concerns, our changing understandings of the geography and ecology of the Western Hemisphere, or issues of cultural and ethnic diversity.

**Prerequisite:** 100-level "Introduction to American Studies"

**Core Courses:** 15 Credits (One course from I, II, III, IV, and V below.)

- I. One course from the following: HIST 210, 215, 238, 243, 244, 246, 249.
- II. ENGL 270 American Literature to 1880 *or* 271 American Literature since 1880
- III. POLS 241 American Political Parties *or* POLS 251 Law and Society *or* POLS 252: Constitutional Law *or* POLS 275 The Presidency and Congress *or* ECON 203 Economic History of the United States
- IV. One 200-level course that deals with Latin America, Canada, or the Caribbean.
- V. INTD/ENGL 265W Seminar in American Studies

**Track Requirement:** 9 Credits

Students must choose a "Track" from the four American Studies tracks. They must take three 200-level courses from within this track.

The American Studies Tracks are:

1. History, Culture, and Society
2. Literature and the Arts
3. Economics, Political Science, and the Law
4. The Americas

The following are the courses that are included in each track.

**Track I – History, Culture, and Society**

ANTH 218, 226, 241, 242, 253, 254, 263, 270, 275; GEOG 239; HDFS 201, 248, 267; HIST 210, 215, 227, 233, 234, 237, 238, 239, 241, 242, 243, 244, 246, 247, 294; NRME 217; PHIL 228; SOCI 221, 235, 242, 240, 250, 252; WS 264, 266, 267, 268

**Track II – Literature and the Arts**

ARTH 253, 254, 256; DRAM 231, 251; ENGL 251, 252, 270, 271, 272, 274, 276, 277, 278

**Track III – Political Science, Economics, and the Law**

BLAW 275; COMS 238; ECON 203, 268; HDFS 274; HIST 235, 242, 248, 249; JOUR 220; NRME 240; PHIL 226, 245; PHRM 208; POLS 207, 215, 217, 219, 221, 224, 241, 248, 251, 252, 253, 255, 260, 270, 274, 275, 276; SOCI 267

**Track IV – The Americas**

ANTH 221, 222, 227, 229; ARTH 276, 279; FREN 281; GEOG 255; HIST 275, 276, 280, 281, 282, 283, 285, 286; LAMS 275, 284, 290; POLS 235; SPAN 201, 202, 204, 294, 295, 296, 297

A number of these courses are cross-listed in the catalog, but in most cases they appear on this list only once. Many are offered as "W" courses, and some may have departmental prerequisites.

Other courses, such as "Special Topics" courses, may be used to fulfill American Studies requirements with the approval of the Director of American Studies. (If possible, students should seek such permission before taking the course.) All courses must be taken for three credits.

The Core Courses may not be used to fulfill the 9-credit track requirement. A second core course from the same group, however, may be so used.

Seminar in American Studies: 3 Credits (W). This seminar will provide an in-depth study of a historical period, event, or cultural movement from an interdisciplinary perspective. Students will produce a substantial essay on a topic approved by the instructor.

INTD/ENGL 265W Seminar in American Studies satisfies the Information Literacy Competency and Writing in the Major requirements.

**Related Courses:** 12 Credits

Students will take four related courses. The approval of these courses as germane to the American Studies major will be left to the discretion of the advisor.

A minor in American Studies is described in the "Minors" section.

**Anthropology**

Anthropology studies human beings of all times and places. It examines human biological, cultural and social similarities and differences, and tries to explain them. Because of its broad perspective – which stresses writing, critical thinking, and social analysis – anthropology provides an excellent preparation for a variety of professional and business careers. Anthropology can also be an integral part of the training for life that is the goal of the University's liberal arts program.

All majors must take the following courses: a 100 level Anthropology course, as well as, ANTH 214, 220, 233, and 244. Students must take at least one course in an ethnographic area (ANTH 221, 222, 223, 225, 226, 227, 228, 229, 230, 238, 241, 270). To satisfy the writing in the major competency, all majors must pass at least one of ANTH 212W, 288W, or any 200-level W course approved for this major. To fulfill the information literacy requirement, Anthropology majors must take either ANTH 249 or ANTH 268.

In addition, majors must take at least three 200-level anthropology courses two of which are not ethnographic area courses. We strongly recommend that majors take ANTH 212 and a course in research methods (ANTH 249 or 268). These courses should be taken during the student's senior year, if possible.

A minor in Anthropology is described in the "Minors" section.

## Biology

The biological sciences are organized into three departments: the Department of Ecology and Evolutionary Biology (EEB), the Department of Molecular and Cell Biology (MCB), and the Department of Physiology and Neurobiology (PNB). Introductory level courses (numbered in the 100's) are shared by the three departments and are listed under General Biology (BIOL). Courses above the 100's level are listed separately under individual departments.

The Bachelor of Science degree is generally recommended for students planning a scientific career in biology, but the Bachelor of Arts degree in Biological Sciences allows a richer liberal arts program and provides good preparation for many careers, including subsequent graduate study.

**Credit restriction:** In no case may students receive more than 12 credits for courses in biology at the 100's level.

### Biological Sciences Major

The requirements for the major in Biological Sciences are designed to ensure a sound and broad background in biology, with opportunities to explore related fields. Biological Sciences majors should take BIOL 107 and 108, but majors interested primarily in botany may wish to take BIOL 110 in addition or may substitute BIOL 110 for BIOL 108. Students wishing to complete this major must take at least 24 credits of 200's level courses from EEB, MCB, and PNB. It is strongly recommended that at least four courses include laboratory or field work. In addition to laboratory work associated directly with courses, Independent Study (course #299 in any of the three biology departments) will provide majors with a means of gaining specific research experience. Courses chosen for the major must include at least one course or course sequence from each of the following three groups:

- A. MCB 200, 203, 204, 210, 213, or 229
- B. EEB 244/244W or 245/245W.
- C. PNB 250, or 274-275. (Note: PNB 274-275 must be taken in sequence to be counted towards the Biology major.)

To satisfy the writing in the major and information literacy competency requirements, all students must pass at least one of the following courses: EEB 243W, 244W, 245W, 280W, 284W, 288W, 292W, 293W, 335W; 226W, 240W, 241W, 292W; PNB 263WQ, 292W; or any 200-level W course approved for this major.

A minor in Biological Sciences is described in the "Minors" section.

**Biotechnology Concentration:** Students interested in a career in biotechnology are encouraged to follow a program emphasizing biochemistry, microbiology and molecular genetics and leading to a B.S. degree in Biology with concentration in Biotechnology. It will be difficult to complete the Biotechnology curriculum unless the following courses have been completed by the end of the second semester: ENGL 105, 109, MATH 115, 116 (or MATH 112, 113, 114), CHEM 127-128, BIOL 107 and either BIOL 108 or 110. The major in Molecular and Cell Biology (see below) is also appropriate preparation for further study in biotechnology.

### Structural Biology and Biophysics Major

This B.S. program emphasizes the physical and chemical foundations of molecular biology. A total of 36 credits at the 200-level or above from the following courses are required for the major.

#### Required courses

CHEM 127 and 128 or CHEM 129 and 130 or CHEM 124, 125, and 126; MATH 115 and 116 or MATH 112, 113, and 114; MATH 210; MATH 211 or MATH 227; PHYS 131 and 132 or PHYS 141 and 142 or PHYS 121, 122, and 123; CHEM 243 and 244; CHEM 263 and 264; CHEM 265 or CHEM 245; MCB 204; MCB 208 or MCB 338 or Special Topics: MCB 298 (with Biophysics Program approval); MCB 209

#### Recommended courses

MCB 292W, 299, 226W, 221, 335, 201, 210, 200, 212, 213, 215, 217, 229, 235; CHEM 232, 251; CSE 110C, 123C, 130C; MATH 215

To satisfy the writing in the major and information literacy competency requirements, all students must take one of the following courses: 226W, MCB 241W, 292W; CHEM 270W, 297W; or any 200-level W course approved for this major.

## Ecology and Evolutionary Biology Major

Students majoring in Ecology and Evolutionary Biology may opt for either a Bachelor of Arts degree or Bachelor of Science degree. Both BA and BS degree candidates must complete the following courses in addition to the general CLAS requirements for these degrees:

- BIOL 107, and BIOL 108 or 110 (8 cr. total)
- CHEM 127 and 128 (8 cr. total) or CHEM 124Q, 125Q, and 126Q

Requirements for the EEB Major (BS or BA)

- I. Both of the following core courses:  
EEB 244 or 244W (4 cr.) and EEB 245 or 245W (3-4 cr.)
- II. At least one of the following animal diversity courses:  
EEB 200 (4 cr.), 214 (3 cr.), 252 Field Entomology (var. credits), 254 (4 cr.), 265 (4 cr.), 273 (4 cr.), 275 (4 cr.), 281 & 287 (4 cr.), 283 (4 cr.), 286 (4 cr.)
- III. At least one of the following plant diversity courses:  
EEB 203 (4 cr.), 204 (4 cr.), 227 (3 cr.), 240 (4 cr.), 271 (4 cr.), 272 (3 cr.), 280/W (3-4 cr.), 290 (4 cr.)
- IV. A course in physiology - EEB 296 (students who take PNB 250 as a related course are not required to take EEB 296).
- V. It is recommended that students take at least four EEB courses that require extensive laboratory or field work.
- VI. Students are encouraged to complete a course in statistics.
- VII. At least 24 credits of EEB courses at the 200-level or above, which may include courses in I - IV above.
- VIII. Related Course Requirements: At least 12 credits of 200 level science courses outside EEB, which must include either MCB 200 or 213. One semester of organic chemistry is recommended.
- IX. To satisfy the Writing in the Major and Information Literacy competency requirements, all students must pass at least one of the following courses: EEB 243W, 244W, 245W, 280W, 284W, 288W, 292W, 293W, 335W

A minor in Ecology and Evolutionary Biology is described in the "Minors" section.

### Molecular and Cell Biology Major

This B.S. program is suitable for students with interests in biology at the cellular and subcellular level, including the areas of biochemistry, cell biology, developmental biology, molecular genetics, and microbiology, and their applications in biotechnology and medical science. Many opportunities for independent research projects in these areas are open for undergraduates.

The following 100's level courses are required: BIOL 107; CHEM 127, 128 or 124, 125, 126; MATH 115, 116 or 112, 113, 114; and PHYS 131, 132 or 121, 122, 123. Courses required for the major: at least 24 credits in MCB courses, including:

**Group 1:** At least 3 of the following core courses  
MCB 200 (Note: MCB 213 may be substituted for MCB 200), 204, 210, 229

**Group 2:** CHEM 243 and 244

**Group 3:** Laboratory requirement: At least 3 laboratory courses chosen from the following list:  
MCB 203, 204, 213, 214, 215, 225, 226, 229, 233, 235, 240W, 299 Independent Study (may be repeated, but only 3 credits may count toward the 24 credits of required MCB courses).

For breadth of study in biology, it is recommended that students take PNB 250 and EEB 244 or 245. Majors must complete at least 24 credits in MCB courses at the 200 level or above.

Where appropriate, a course may fulfill more than one requirement; e.g., MCB 204 and 229 count towards the Group 1 requirement as well as the Group 3 Laboratory requirement. BIOL 295 may be used to count toward the 24 credits of required MCB courses.

To satisfy the MCB writing in the major and information literacy competency requirements, all students must take one of the following courses: MCB 226W, 240W, 241W, 292W; EEB 244W or 245W; or any 200-level W course approved for this major.

A minor in Molecular and Cell Biology is described in the "Minors" section of this *Catalog*.

### Physiology and Neurobiology Major

This major, which also leads to a Bachelor of Science, is suitable for students interested in the physiology and neurobiology of humans and animals. Coursework and independent study opportunities span the fields of comparative physiology, neurobiology, molecular endocrinology, reproductive endocrinology, developmental neurobiology and neurochemistry.

The following 100's level courses are required:

BIOL 107, 108; CHEM 124-126 or 127-128; MATH 115-116 or 112-113-114; PHYS 131-132 or 121-122-123 or 141-142-143

PNB majors must take no fewer than 24 credits in PNB courses numbered 200 and above. This must include all of the following core courses: PNB 274-275, 251, 262. The remaining credits needed to fulfill this requirement should be selected from the available PNB courses, including PNB 225, 250, 252, 260, 263W, 280, 292W, 298, 299. (At most 3 credits from among PNB 292W, 298 and 299 may count towards the 24 credit requirement.)

PNB majors must also take all of the following courses, which count as the related group:

CHEM 243, 244; MCB 203 or 204 and either MCB 200 or 213.

In addition, students are urged to take:

CHEM 245; EEB 244 or 244W or 245 or 245W; and MCB 210.

To satisfy the writing in the major and information literacy competency requirements, all students must pass at least one of the following courses: PNB 263WQ, PNB 292W, EEB 244W, or EEB 245W.

There is a minor in Physiology and Neurobiology. Additionally, a minor in Neuroscience is offered jointly by the Physiology and Neurobiology Department and the Psychology Department. Both programs are described in the "Minors" section of this *Catalog*.

### Chemistry

Programs in the Department of Chemistry may lead to either the Bachelor of Arts or the Bachelor of Science degree. The American Chemical Society certifies a rigorous professional program which is an option for the B.S. students.

The B.A. degree is appropriate for students who are interested in chemistry but do not wish to pursue a career as a laboratory scientist. The B.S. degree prepares students to pursue graduate study in Chemistry or to find employment in technologically oriented industries.

Prospective majors with a good high school chemistry background should take CHEM 137 and 138 in their first year. Other prospective majors should take 127-128 or 124-125-126 or 129-130 (Honors).

Chemistry majors must complete the following mathematics and physics sequences:

MATH 115 and 116 (or MATH 112, 113, and 114)  
MATH 210 (or 220)  
MATH 211 (or 221)  
PHYS 131-132 (or PHYS 121-122, and 123)

Failure to complete these sequences by the end of the fourth semester may delay completion of the degree.

A minor in Chemistry is described in the "Minors" section.

Field of concentration requirements for the B.A. and B.S. degrees are as follows:

#### Bachelor of Science

At least 35 credits of Chemistry courses numbered 200 and above must be successfully completed for the Bachelor of Science in Chemistry in addition to the College requirements. The field of concentration requirements include CHEM 243, 244, 245, (Organic), 263, 264, 265 (Physical), 210, 214, 215 (Inorganic) and 232, 234 (Analytical).

#### Bachelor of Arts

At least 28 credits of Chemistry courses numbered 200 or above must be successfully completed for the Bachelor of Arts in Chemistry in addition to the College requirements. The field of concentration requirements include those listed above for the B.S. degree with the exception of CHEM 215 and 234.

For the degree certified by the American Chemical Society, two courses designated by the department as advanced courses must be taken in addition to the B.S. requirements. Also, these or other courses beyond the core curriculum must include at least 80 contact hours of laboratory work. The grade point average in all of the required chemistry courses must be at least 2.300.

Undergraduate students are encouraged to participate in research.

To satisfy the computer technology competency, all students must take CHEM 265W. Other courses that will further enhance competency in computer technology include 215, 232, 234, and 264.

To satisfy the information literacy competency, all students must take CHEM 265W. Other courses that further enhance competency in information literacy include 215, 242W, 234, 270W, 296, and 297W.

To satisfy the writing in the major requirement, all students must take CHEM 265W. Other courses that will further help students develop writing skills in chemistry include 242W, 270W, and 297W.

### Cognitive Science

Cognitive Science is the study of how intelligent beings (including people, animals, and machines) perceive, act, know, and think. It explores the process and content of thought as observed in individuals, distributed through communities, manifested in the structure and meaning of language, modeled by algorithms, and contemplated by philosophies of mind. Its models are formulated using concepts drawn from many disciplines, including psychology, linguistics, logic, computer science, anthropology, and philosophy, and they are tested using evidence from psychological experiments, clinical studies, field studies, computer simulations, and neurophysiological observation.

This program is intended to prepare students for graduate training in cognitive science and related disciplines or to work in the information sciences. Advanced courses from at least four different departments are required. The research and formal systems requirements provide basic knowledge concerning the experimental and theoretical foundations of cognitive science. Finally, majors are encouraged to learn about theory building and testing in a variety of natural and physical sciences. One way to achieve this is to fulfill the requirements of the Bachelor of Science degree.

#### General Requirements

The requirements for the cognitive science major include 39 200-level credits, no more than 21 of which may be taken in any one department. There are several 100-level courses that are required preparation for the 200-level requirements. These courses should be taken during the first four semesters and may fulfill general education requirements.

#### Core Courses (12 credits)

Four courses from four departments:

ANTH 244; CSE 282; LING 202; PHIL 241, 250; PSYC 256

#### Research Courses (6 credits)

Statistics (one of the following):

PSYC 202Q; STAT 201Q, 220Q (Calculus level)

Research Methods (one of the following):

LING 215; PSYC 210W, 211W, 215W, 232W, 267/267W

#### Formal Systems Courses (3 credits)

CSE 254, 257, 259; MATH 211Q, 215, 216, 227Q, 231, 237; 279, PHIL 211Q, 214Q

#### Advanced courses (12 credits)

Must include courses from at least 3 departments. Can include core courses not needed to satisfy the core course requirement.

ANTH 232, CDIS 202/202W\*, 244, 244W, 253; CSE 298; LING 205, 206, 208, 244W; PHIL 210, 212/212W\*\*, PNB 251; PSYC 206, 220, 221, 236, 239\*, 254, 257, 260, 291/291W; SCI 240\*\*

#### Electives (6 credits)

Two additional courses (from above lists or other related courses from any department), chosen with the approval of the advisors.

\*Note: Only one of CDIS 202/202W and PSYC 239 may be counted toward the major.

\*\*Note: Only one of PHIL 212/212W and SCI 240 may be counted toward the major.

#### Competency and Writing Requirements

The exit requirements for computer technology and information literacy will be met by satisfaction of the Research Methods Requirement. The exit requirements for writing in the major can be met by taking one of the following courses: CDIS 202W, CDIS 244W, LING 244W, PHIL 212W, PSYC 202WQ, PSYC 210W, PSYC 232W, PSYC 267W, PSYC 291W.

Students in the program will have an advisor and an associate advisor, each in different departments contributing to the cognitive science program. Students will consult with both of them to plan a course of study.

For further information, contact Associate Professor Jay Rueckl, Chair, Cognitive Science Steering Committee, 121 Psychology Building.

## Communication Sciences

The Department of Communication Sciences is concerned with the human communication process and its analysis. Undergraduate students may major in Communication Sciences with a concentration in either Communication or Communication Disorders. The Department offers the following graduate degrees in the field of Communication Sciences: the M.A. with concentrations in Speech, Language and Hearing, and in Communication, and the Ph.D. with concentrations in Speech, Language and Hearing, and in Communication and Marketing Communication and the Doctor of Audiology, Au.D. degree.

**Communication Disorders.** The undergraduate concentration is a pre-professional program within the liberal arts curriculum. It permits the student to apply for graduate studies in one of two specialty areas: audiology or speech-language pathology.

Students who elect the concentration in Communication Disorders must take: CDIS 201, 202 or 202W, 242, 247, 248, 249 or 249W, and 250.

In addition, students must take at least two (2) of the following courses: CDIS 244 or 244W, 251 and 253.

The information literacy competency is met by the successful completion of required courses.

To satisfy the writing in the major requirement, students must pass at least one course from CDIS 202W, 244W, or 249W.

The Master's degree programs in Speech and Language and the Au.D. degree in Audiology are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association. The Speech and Hearing Clinic is accredited by the American Speech-Language-Hearing Association's Professional Services Board.

**Communication.** The undergraduate concentration in Communication is designed to produce students capable of analyzing human communication from a scientific standpoint. It emphasizes the empirical investigation of human communication, stressing developments in communication theory and research with a special emphasis on interpersonal, mass, organizational and international communication. Students who elect to take the Communication concentration must pass:

COMM 100, 105, 200Q,

In addition, students must pass at least two (2) of the following Core courses: COMM 210, 220, 230

Students must pass at least five (5) more 200-level courses in Communication. No more than two of the five can be applied courses: COMM 280, 282, 288, 290, and 291. Three of the five must be theory courses, which are all other COMM courses numbered 200 or above. As long as students have met the above requirements, they may also pass additional applied courses. We strongly recommend that everyone take at least one internship (COMM 291).

To satisfy the information literacy competency, all students must pass COMM 100, 105, and 200Q. Other courses that will further enhance competency in information literacy include COMM 130, 205, 210, 211, 215, 220, 225, 226, 230, 232, 233, 234, 241, 242, 245, 250, 251W, 255, 260, 262, 270W, 271, 272, and 273W. To satisfy the writing in the major requirement, students must pass at least one course from COMM 242W, 251W, 270W, 273W, 296W, or any 200-level W course approved for this major. For students interested in media and public relations careers, journalism courses are recommended for additional writing competency.

Students must apply to the department to become a Communication Sciences major with a concentration in Communication. The deadline for applications during a semester is the end of the second week of classes. Applications are accepted for Fall and Spring semesters. Students typically apply Spring semester of their Sophomore year. Forms can be obtained outside Room 223 PCSB, on the department website, and from Communication faculty members at the Stamford Regional Campus.

The decision to admit will depend on several criteria:

- Successful completion of at least 54 credits, or successful completion of 40 credits plus current enrollment that should result in at least 54 credits by the end of the current semester.
- Cumulative GPA, and
- Successful completion of COMM 100.

The applicant's academic record and space availability will also be considered.

We recommend that students interested in the Communication concentration complete COMM 105 and COMM 130 before junior year, if possible. COMM 130 is a prerequisite for many 200-level media courses, and is advised for all students interested in media production, communication technology, marketing, public relations, or advertising.

Prior to acceptance into the Communication Sciences major, students may designate themselves as Pre-Communication by notifying their advisor. The PRECOM designation, however, will only indicate an intention to apply and will not insure acceptance into the concentration. PRECOM majors must still apply to become Communication Sciences majors with a Communication concentration at the appropriate time. PRECOM majors are given priority in registering for 100-level Communication courses.

A minor in Communication is described in the "Minors" section.

## Economics

A student majoring in economics should acquire a thorough grounding in basic principles and methods of analysis, plus a working competence in several of the specialized and applied fields. Examples of such fields are industrial organization, law-and-economics, money and banking, international trade and finance, public finance, comparative economic systems, labor economics, health economics, urban and regional economics, and economic development.

Economics majors must earn twenty-four credits in 200 level courses, including two intermediate theory courses (ECON 218 and ECON 219), plus at least nine credits in either quantitative skills courses (ECON 212-217) or applied theory courses which have an intermediate theory course as a prerequisite, and have a calculus course recommended (ECON 237-289). ECON 300 level courses may count as part of the nine required credits in the ECON 212-217 and ECON 237-289 series. Economics majors are also required to pass twelve credits in 200 level courses in fields related to economics or a minor related to economics, plus STAT 100Q or 110Q and one of the following: MATH 106Q, 113Q, 115Q, 118Q, or 120Q. MATH 115Q and STAT 110Q are preferred.

The intermediate theory courses are open to sophomores and should be taken early in the student's major program. Recommended courses for economics majors include ECON 212Q and ENGL 249W. Qualified students may substitute some 300 level courses for 200 level courses with the consent of instructor and the student's faculty advisor. The department has special requirements for economic majors in the University Honors and Degree with Distinction Programs, and for majors who qualify for the department's Economics Scholars and Quantitative Certificate Program.

Course work in economics serves a wide variety of vocational objectives. An economics major (supplemented by a rigorous calculus and statistics course sequence) is excellent preparation for graduate work in economics, which qualifies a person for academic, business, or government employment. Majors and others with strong economics training are attractive prospects for business firms and government agencies, and for professional graduate study in business or public policy. An economics background is especially desirable for the study and practice of law.

Economics majors satisfy the computer technology competency by passing either STAT 100Q or STAT 110Q in addition to meeting the University-wide computer entrance expectations.

Economics majors satisfy the information literacy competency by passing at least one 200-level W course in Economics. Students may gain enhanced competence in information literacy by taking ECON 212, ECON 213W, or ECON 217.

Economics majors satisfy the writing in the major requirement by passing at least one 200-level W course in Economics.

A minor in Economics is described in the "Minors" section.

## English

To satisfy the English major, the student must present for the degree ten 200-level three-credit courses in this department. Courses elected in satisfaction of one of the following requirements will also satisfy one or more others, when course content warrants.

Five courses (Group A) must be 200-level English courses whose organizing principle is the study of literary works within a specific historical period: 205, 206, 220, 221, 222, 223, 226, 270, 271.

Four courses (Group B) must be 200-level English courses whose organizing principle is the sharply focused study of a literary genre, theme, movement, topic, school, or author: 200, 204, 210, 211, 212, 216, 217, 218, 219, 227, 230, 231, 232, 233, 234, 236, 237, 238, 239, 240, 242, 244, 261, 262, 264, 265, 266, 267, 268, 272, 274, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 293, 295, 298, 299.

One course must be in Shakespeare.

At least three courses must focus upon literature written before 1800: 204, 205, 220, 221, 222, 230, 231, 232, 242, 244, 270. Others, such as 217, 219, 240, 264, 265, 266, 267, 268, 279, 280, 281, 282, 283, 284, 291, 293, 295, 298, 299 may occasionally apply as approved by the Department.

One course must focus upon literature that expresses the formation of diverse cultural identities: 218, 227, 233, 234, 261, 262, 272, 274, 276, 277, 278, 285, 286, 287, 288, 289, 290. Others, such as 217, 264, 265, 267, 268, 283, 284, 291, 293, 295, 298, 299 may occasionally apply as approved by the Department.

Any 200-level English course will count as the tenth course to fulfill the major.

To satisfy the general education requirement for writing in the major, students must pass one of the following English courses: 220W, 221W, 222W, 223W, 226W, 227W, 270W, 271W, 251W, 252W, 253W, 254W, 255W, 256W.

To satisfy the general education requirement for information literacy in the major, students must pass one of the following English courses: 268W, 279, 280, 281, 282, 283, 284, 287, 288, 290.

A minor in English is described in the "Minors" section.

**Concentration in Irish Literature.** English majors may choose to pursue a concentration in Irish Literature. Within the requirements for all English majors, these students will select four courses in Irish literature approved by their advisors in Irish literature and by the Irish Literature Coordinator.

**Study Abroad in London.** The University sponsors an academic program at The City University in London. Students take university-level courses in the history of London, British art history, British history, English literature and other subjects in the humanities.

## Environmental Science

The major in Environmental Science is based in the physical and biological sciences, but also includes course work in selected areas of the social sciences. The major leads to a Bachelor of Science degree, and may be adopted by students in either the College of Agriculture and Natural Resources or the College of Liberal Arts and Sciences. This curriculum offers a comprehensive approach to the study of environmental problems, including not only a rigorous scientific background, but also detailed analyses of the social and economic implications of environmental issues. The complexity and interdisciplinary nature of environmental science is reflected in the core requirements of the major. These courses, assembled from several different academic departments representing two colleges, provide both breadth and depth, preparing students for careers that deal with environmental issues, and for graduate study in environmental science and related fields.

A. Required courses in Basic Science: ARE 150; BIOL 107, 108 or BIOL 107, 110; CHEM 127Q, 128Q or 124Q, 125Q, 126Q; MATH 115Q, 116Q or 112Q, 113Q, 114Q; PHYS 131Q, 132Q or 121Q, 122Q, 123; STAT 100Q or 110Q or 220Q.

B. Required Courses in Introductory Environmental Science: Select any two from GEOG 205, GEOL 105, MARN 170, NRME 100.

C. Required Courses in 200-level Environmental Science: ANSC 226, EEB 244 or 244W, GEOL 251, MARN 200, NRME 241

D. Capstone course: GEOG 286W

E. General Education competency requirements: Completion of the courses listed in A.-D. will satisfy the competency requirements. Completion of GEOG 286W

will satisfy the writing in the major and information literacy competency requirements. Completion of BIOL 108 and EEB 244 will satisfy the Computer Literacy requirement.

F. Concentration requirements. All students majoring in Environmental Science must also fulfill the requirements of a concentration in a discipline associated with the program before graduation. Approved concentrations are listed below.

**Environmental Biology** - Students must complete: EEB 245 or 245W; EEB 207 or 293W; and at least one course from each of the following groups:

Group I -- Ecological Systems and Processes

EEB 208, 247, 294, 296, 301, 302, 310

Group II -- Plant Diversity

EEB 203, 204, 240, 256, 271, 272, 276, 280/W, 290

Group III -- Animal Diversity

EEB 200, 214, 252, 254, 265, 273, 275, 281 and 287, 283, 286

**Environmental Chemistry** - Students must complete at least 15 credits including CHEM 243, 244, 240 or 245, and 232, with remaining credits from CHEM 234; MATH 210 and CHEM 263; CHEM 210; or CHEM 370.

**Environmental Geography** - Students must complete: GEOG 240 or 246; and at least four of: GEOG 230, 232, 236, 242Q, 248, 285, 287W

**Environmental Geoscience** - Students must complete at least five of: GEOL 228, 229, 234, 250, 252, 253

**Marine Science** - Students must complete four courses from the following list, but with no more than two courses from a single group.

Group A: MARN 236, 294, 331, 332, 380

Group B: MARN 280, 371, 325

Group C: MARN 275

Group D: MARN 270, 372, 376

Environmental Science also offers the following concentrations through the College of Agriculture and Natural Resources: Environmental Health, Natural Resources, Resource Economics, Soil Science. For the complete requirements, refer to the Environmental Science description in the "College of Agriculture and Natural Resources" section of this *Catalog*.

## Geography

Geography is a field of study that investigates the surface of the earth as the scene of human activity. Because our living environment has its origins in physical processes and human activities, geographers use both natural and social science concepts.

Geography students are prepared to enter a wide range of careers in business, planning, government, and teaching. In private sector firms, geographers select locations for capital investment, determine market or service areas, assess the impact on the environment of proposed changes in land use, and develop effective strategies for planning. At all levels of government geographers work in teams with other disciplinary experts. Many geographers work for Federal mapping agencies, the Bureau of the Census, the Department of State, the U.S. Geological Survey, or other agencies. The undergraduate program also provides students with the background to pursue graduate degrees in geography or related fields such as urban and regional planning. At the University of Connecticut, graduate study in regional analysis and geographic information systems leads to the M.A. and Ph.D. degrees.

**Requirements for the Major.** The geography major requires 24 credits in 200-level geography courses and 12 credits of related course work in other departments. Majors complete a basic core of courses (GEOG 200 or 204, GEOG 205, and GEOG 242Q) and select 15 additional credits, including at least one "W" course in geography numbered 280 or higher in consultation with their departmental advisor.

The writing in the major requirement for Geography can be met by passing any of the following geography courses: GEOG 280W, 286W, 287W, or 288W.

The information literacy requirement in Geography can be met by passing any of the following geography courses GEOG 280W, 286W, 287W, or 288W.

The computer technology exit requirement in Geography can be met by passing GEOG 242Q.

A minor in Geographic Information Science is described in the "Minors" section.

## Geology and Geophysics

Geology integrates biology, chemistry and physics in the study of the Earth's history and composition as recorded by rocks, fossils, and landscapes. Geophysics uses the methods of mathematical physics to investigate the Earth's interior through the analysis of earthquake energy and measurement of electromagnetic, gravitational, and thermal fields. Together, geology and geophysics provide the tools needed for the exploration for mineral and energy resources, for the monitoring and remediation of environmental contaminants in soil, sediment, and groundwater and for the study of earthquakes, volcanic eruptions, floods and other natural phenomena that pose a hazard to human life.

The challenge of geology and geophysics is to understand our planet and its history, and to use that knowledge to forecast its future in an era of global change.

The Geology and Geophysics Program is administered by the Center for Integrative Geosciences. Until the new undergraduate course of studies for this Program is approved (anticipated Fall 2006 or 2007), students interested in geosciences may pursue a course of studies with a foundation in geology and geophysics through the Individualized Major program. Faculty associated with the Center (located in Beach Hall) are available to provide information and for advising. For further information and application forms, contact the Individualized Major Program Director at (860) 486-3631.

A minor in Geology and Geophysics is described in the "Minors" section.

## History

The study of history aims at the understanding and disciplined reconstruction of past human activities, institutions, ideas, and aspirations in the light of present knowledge and in the hope of usefulness for the future. History belongs both to the humanities and to the social sciences. It is studied both for its own sake and for the light it throws on the present problems and future prospects of particular societies and of humankind in general.

A major in history in combination with work in foreign languages, philosophy, literature, and the social sciences provides a broad foundation for informed citizenship. History majors find employment in many fields of human endeavor from arts and business to public service and zymurgy. Specialization in history is especially valuable as pre-professional training for law, government, diplomacy, and journalism and for library, archival, and museum administration.

**Requirements for the Major in History:** Undergraduate majors are required to take at least 27 credits in 200-level courses, which must include one three-credit course from each of Groups A, B, and C, and two three-credit courses from Group D. All majors must take HIST 211 in the semester following their declaration as majors, and all majors except Honors students must take HIST 297W in their senior year. Honors students should take in sequence 297W and 200W or 299 and 200W. With the consent of the undergraduate major's advisor, 300-level courses may be used to fulfill the distribution requirement. HIST 211 and 297W satisfy the information literacy competency. HIST 200W or 297W satisfy the writing in the major requirements.

### Group A - Ancient, Medieval, and Early Modern

HIST 203, 212 (or ANTH 257), 213 (or CAMS 253), 214 (or CAMS 254), 216 (or CAMS 255), 217 (or CAMS 243), 218 (or CAMS 256, HEB 218, JUDS 218), 219, 220, 250, 251, 255, 257 (or CAMS 250), 261, 267, 271, 272, 273, 274.

### Group B - Modern Europe

HIST 203, 206 (or SCI 206), 208 (or WS 208), 209 (or HDFS 279), 225, 228, 229, 252, 253, 254, 256, 258, 259, 262, 264, 265, 269, 279, 291.

### Group C - United States

HIST 206 (or SCI 206), 207, 210 (or WS 210), 215 (or WS 215), 227, 233, 234, 235, 236, 237, 238, 239, 240, 241 (or URBN 241), 242, 243, 244, 245, 246, 247, 248, 249, 253, 260, 266, 268 (or AASI 268), 278 (or PRLS 220), 284 (or PRLS 221), 294 (or AASI 294).

### Group D - Africa, Asia, Latin America, and Middle East

HIST 204, 205, 221, 222, 223, 224, 226, 253, 266, 275, 276, 277 (or AASI 277), 278 (or PRLS 220), 280, 281, 282, 283, 285, 286, 287 (or AASI 287), 288 (or AASI 288), 289, 290.

**Variable Topics Courses** (HIST 200, 201, 270, 292, 293, 295, 296, 297, 298, 299, or a graduate level History course) may be applied to any of the four distribution groups as determined by course content and with Advisor consent.

A minor in History is described in the "Minors" section.

## Individualized Major

Students with a grade point average of 2.0 or higher may apply for an individualized major. The 36 concentration credits numbered 200 or above may come from two or more departments in the University. At least 18 of the credits shall come from departments of this College. Students must earn a grade point average of 2.5 or better in the 36 concentration credits. The student may include no more than 6 credits of independent study nor more than 12 credits of field work. All students with an approved individualized major plan of study must complete a capstone course as part of their concentration credits: they must register for INTD 295W (INTD 296W for honors students or students doing distinction projects) during their last academic year. (Double majors and additional degree students may meet the capstone course requirement by substitution if they register for a capstone course or thesis in the final year of their own major/degree.)

Students may submit proposals for admission to the individualized major once they achieve third semester status and may be admitted after completing three semesters of work (45credits). The latest they may submit proposals is prior to beginning their final 30 credits of study. Internship, field work, research, or study abroad is recommended as part of the proposed plan of study. The proposed field of concentration must show coherence of subject matter or principle and have academic merit. For further information and application forms, see the Individualized Major website at: <http://www.imjr.uconn.edu/> or contact the Individualized Major Program Director at (860) 486-3631.

With respect to the computer technology competency requirement, the University's basic entrance expectations are considered to be adequate for Individualized Majors in general. However, Individualized Majors are required to consider if more advanced computer technology competency is required for their major and, if yes, specify as part of their plan of study how they will achieve it.

To satisfy the information literacy competency, all majors must take INTD 295W (or INTD 296W). In addition, all majors must include one research methods or research course in their plans of study. (Double majors and additional degree students may choose to satisfy the information literacy competency outside the Individualized Major.)

To satisfy the writing in the major requirement, all students must nominate one 200-level W course to develop writing in a relevant academic discipline and, in addition, take INTD 295W (or INTD 296W). (Double majors and additional degree students may choose to satisfy the exit level writing in the major competency outside the Individualized Major.)

## Journalism

This department offers professional preparation for students who are planning careers in journalism. It also offers other students the chance to improve their writing, interviewing and research skills and to learn about the news media. Students in writing courses are expected to produce work of professional quality and to publish that work when possible.

Students who major in journalism should also take related courses in history, economics, political science and other liberal arts disciplines as a sound preparation for news reporting. The department strongly urges students to complete a second major. Students also should gain professional experience before graduation, either through part-time jobs, the Co-operative Education Program or the department's internship program. Internships are available at newspapers, radio and television stations, magazines, public relations offices and political press offices.

In addition to satisfying the requirements of the College, majors must complete 24 credits in journalism at the 200s-level, including JOUR 200W, 201W, 202, 220 and 230. JOUR 102 is a prerequisite for JOUR 202.

A journalism education is, by definition, an education in writing and information literacy. A journalism major will fulfill the writing in the major requirement and the information literacy competency by completing the department's core courses (JOUR 200W, 201W, 202, 220 and 230).

Students will fulfill the computer technology competency by (a) meeting the university's expectations in computer operation basics, word processing, presentation software, spreadsheets, database basics, graphics and multimedia, Internet basics and electronic communication, and (b) completing Journalism 230.

Journalism majors are advised to consult with their advisors about additional computer skills that may be helpful to them, based on individual career plans.

Students must apply to the Journalism Department to become majors. They must do so by the end of the third full week of classes in the fall or spring semester. A student who is not accepted initially may reapply in subsequent semesters. Forms can be obtained in the Journalism Department Student Resource Center, Arjona 428.

Students must meet the following two requirements:

- 1) Successful completion of at least 39 credits. (Students who are members in good standing of the University Honors Program may apply after completing 23 credits at UConn.)
- 2) Cumulative GPA of at least 2.8 - *or* - successful performance on a timed writing exercise administered by the department. Applicants taking the test must show mastery of the fundamental tools of writing, including spelling, grammar and syntax. The applicant's academic record and goals also will be considered.

## Latin American Studies

The major in Latin American Studies responds to a need in the New England region and nationally for a deeper understanding of the peoples and cultures of Latin America, its history and contemporary economic, social, and political problems, and its relations with the United States. Completion of the B.A. in Latin American Studies prepares the student to work in government, international organizations, business, journalism and communications, or to pursue graduate studies that lead to careers in research and teaching.

The Center for Latin American and Caribbean Studies administers the undergraduate major in Latin American Studies, a program of study leading to the B.A. degree. The major in Latin American Studies consists of a minimum of 36 credit hours of interdisciplinary course work built around 5 core courses (15 credit hours) as follows:

### Core Courses

*Anthropology*: One course selected from ANTH 221, 222, 227, or 229.

*History*: One course selected from HIST 281, 282, or 283.

*Humanities*: One course in Latin American literature or art: SPAN 295, 296, 297; ARTH 277, 278, or 279.

*Political Science*: POLS 235.

*Latin American Studies*: LAMS 290W.

### Language Requirement

Successful completion of two of SPAN 278, 279, 290, or 291.

Students select the remaining courses (a minimum of 21 credit hours) needed to complete the major in consultation with an advisor, who will assure that the student's program is coherent and comprehensive.

**Study Abroad.** While study abroad is not mandatory, we strongly urge all Latin American Studies majors and minors to spend at least a semester in Latin America. The University sponsors academic programs in Mexico at the Universidad de las Américas, Puebla, in the Dominican Republic, at the Pontificia Universidad Católica Madre y Maestra, Santiago de los Caballeros, at the University of Costa Rica in San José, Costa Rica, at the Pontificia Universidad Católica de Chile and the Universidad de Chile in Santiago, Chile and at the Universidad de Buenos Aires, Argentina. Students may go for either a semester or a full academic year. The University also sponsors an academic year and a one-semester program in Brazil at the Universidade de São Paulo. For further information, contact the Center for Latin American and Caribbean Studies or the Study Abroad Office.

Information literacy and writing in the major competencies will be satisfied by completion of the core course LAMS 290W.

A minor in Latin American Studies is described in the "Minors" section.

## Linguistics

The Department of Linguistics offers two joint majors, one together with the Department of Philosophy in Linguistics and Philosophy, and the other with the Department of Psychology in Linguistics and Psychology. For either major, a minimum of four courses (twelve credits) at the 200 level from each department is required.

For the **Linguistics and Philosophy** joint major, specifically required courses are LING 206, LING 215C, and PHIL 241. For this joint major, exit requirements for computer technology and information literacy will be satisfied by passing

LING 215C. The exit requirement for writing in the major will be satisfied by passing either LING 244W or PHIL 225W.

For the **Linguistics and Psychology** joint major, specifically required linguistics courses are: LING 202 and 215C, and at least two out of the other 200 level linguistics courses; and specifically required psychology courses are: PSYC 202Q and 221, and at least two out of PSYC 210W, 215, 220, 236, 254, and 256. All students in the Linguistics/Psychology Major are strongly encouraged to take LING/PSYC 305 in their senior year. A minimum of four courses (12 credits) at the 200 level from each department is required. For this joint major, exit requirements for computer technology and information literacy will be satisfied by passing LING 215C. The exit requirement for writing in the major will be satisfied by passing either LING 244W or PSYC 210W.

A minor in Linguistics is described in the "Minors" section.

Other students interested in Linguistics should consider forming their major group from the courses in another field, and using courses in linguistics for their related group, as described under "Field of Concentration," item 1.

## Marine Sciences

**Bachelor of Science in Coastal Studies:** The B.S. in Coastal Studies requires a foundation of courses including 28 credits of Marine Science courses, and 12 credits of defined social science courses constituting the Related Area. Coastal Studies majors must pass the following courses.

**I. 100's Level:** BIOL 107, 108; CHEM 127Q-128Q; MATH 115Q, 116Q; PHYS 131Q, 132Q; MARN 170

Coastal Studies requires a course in data analysis and interpretation. This requirement may be fulfilled with STAT 110Q or another course approved by the Department. Students are encouraged to choose:

Either SCI 240 or HIST 206; and either ECON 112 or ARE 150

### II. Coastal Studies B.S. Major Requirements

The following courses constitute the major requirements: MARN 210, 211, 212C, 220Q, 255W, 256, and 3 electives. The electives must represent different areas of Marine Sciences. At least one course must be chosen from each of the following groups:

Group 1: MARN 230, 270;

Group 2: MARN 236, 282, 294, 241, 242;

Group 3: MARN 236, 282, 275, 280, 325.

Note, however, that only one of MARN 236 and 282 may be counted as an elective. It can satisfy either the Group 2 or Group 3 requirement, but not both.

### III. Coastal Studies B.S. Related Area

In consultation with their faculty advisor, students choose Related Area courses appropriate to their interests, one from each of four subject areas: Environmental Policy, Economic Development, Law and Regulation, and Coastal Issues. The department maintains a list of courses acceptable for each subject area.

**Bachelor of Arts in Coastal Studies:** The B.A. in Coastal Studies requires a foundation of courses including 25 credits of Marine Science courses, and 18 credits of defined social science courses constituting the Related Area.

The B.A. plan of study allows interested students to take additional social science courses. Coastal Studies majors must pass the following courses.

**I. 100's Level:** BIOL 107, 108; CHEM 127Q-128Q or CHEM 122 and GEOL 102; MATH 109Q, 118Q; PHYS 121Q, 122Q; MARN 170

Coastal Studies requires a course in data analysis and interpretation. This requirement may be fulfilled with STAT 110Q or another approved course. Students are encouraged to fulfill some of their General Education requirements with the following choices: Either SCI 240 or HIST 206; and either ECON 112 or ARE 150.

### II. Coastal Studies B.A. Major Requirements

The following courses constitute the major requirements: MARN 210, 211, 212C, 255W, 256, and 3 electives. The electives are: MARN 220Q, 230, 236 or 282, 241, 242, 270, 275, 280, 294, 325

### III. Coastal Studies B.A. Related Area

In consultation with their faculty advisor, students choose Related Area courses appropriate to their interests, one from each of four subject areas, plus two additional courses from any of the following areas: Environmental Policy, Economic Development, Law and Regulation, Coastal Issues. The department maintains a list of courses acceptable for each subject area.

**Competency Requirements (B.S. and B.A. programs)**

The University's competency requirements for computer technology and information literacy will be satisfied by completing the major requirements above, in particular MARN 210, 211, and 212 for computer technology, and 211, 255W and 256 for information literacy. The writing in the major requirement will be satisfied by MARN 255W.

Note: Some Marine Sciences courses may only be offered at the Avery Point campus. Please check the Directory of Courses in this *Catalog*.

Both a minor in Marine Biology and a minor in Oceanography are described in the "Minors" section.

**Maritime Studies**

Water covers more than two-thirds of the Earth's surface and the majority of the human population lives within 50 miles of navigable waterways. The world's oceans and great riparian systems have provided the dominant medium for human economic and cultural exchange and the context for many of humanity's most dramatic stories, powerful technologies, and aesthetic and literary achievements.

Maritime Studies is an interdisciplinary major that embraces the liberal arts as the foundation for exploring humankind's critical and continually evolving connections with the world's waterways and watersheds. The Maritime Studies Program combines rigorous liberal arts training in recognized humanities and social science disciplines such as history, English, economics, political science and anthropology with specialized courses, interdisciplinary seminars, and research and internship opportunities that focus on issues, traditions, and problems that influence life in maritime regions. A complement to the Marine Sciences Department Coastal Studies Program, Maritime Studies highlights the social and cultural side of the human/water relationship, but recognizes and explores the links between human activities and the composition and the condition of the coastal and marine environments.

Maritime Studies is a flexible but focused major that students may shape to meet a wide range of occupational and educational goals. Depending upon the track of studies selected, Maritime Studies students may prepare for a range of careers including those in the maritime service and heritage tourism sectors as well as for graduate study in maritime and public history, English, journalism, marine policy and cultural resource management, planning and regulation, education, law, or business. The Maritime Studies Program takes advantage of the UConn-Avery Point campus' unique Long Island Sound location and its many coastal and maritime educational resources and research programs including the UConn Sea Grant Institute, the National Undersea Research Center, the Long Island Sound Resource Center, and Marine Sciences Department. Significant internship and research opportunities for students are also available through agreements with regional institutions that include Mystic Seaport, one of the world's premier maritime museums and research centers.

**Major Requirements****Core Courses**

Students are required to take the following Core Courses:

MAST 101; MARN 135; ENGL 237; ECON 233; HIST 245; POLS 259; MAST 297

The writing in the major requirement can be met with any 200-level W course approved for this major. Students will satisfy the information literacy requirement as they complete core courses.

**Disciplinary Concentration**

Students must take an approved four-course sequence of 200 level courses. Disciplinary concentrations available at Avery Point include Political Science, History, English, Anthropology, and Economics. Students may pursue disciplinary tracks in other departments with the approval of the Maritime Studies Coordinator and their advisor.

**Related Areas**

Students must complete 12 credits in related areas. The Maritime Studies coordinator and the student's advisor will determine what courses are germane to Maritime Studies.

**Mathematics**

The Mathematics Department offers programs of study in Mathematics, Applied Mathematical Sciences, Actuarial Science (in cooperation with the School of Business), and Mathematical Statistics (in cooperation with the Department of Statistics).

MATH 242W, 247, and 248 may not be counted in any of the major groups listed below.

The Department offers both a Bachelor of Science and a Bachelor of Arts degree in Mathematics, Applied Mathematical Sciences, Mathematics-Statistics, and Mathematics-Actuarial Science. The Bachelor of Science program provides in-depth training in Mathematics as preparation for graduate study or for participation in scientific and engineering teams in government, industry, or research laboratories. The Bachelor of Arts degree is designed to provide training in contemporary mathematics without the depth and concentrated specialization required for the Bachelor of Science program. To satisfy the writing in the major and information literacy competencies in the Bachelor of Arts in Mathematics, the Bachelor of Science in Mathematics, the Bachelor of Arts in Applied Mathematical Sciences, and the Bachelor of Science in Applied Mathematical Sciences, all students must pass one of the following courses: MATH 201W, 202W, 242W, or 292W.

**Bachelor of Arts in Mathematics:** The requirements for the B.A. in Mathematics are 27 credits of 200-level course work in Mathematics and 12 credits of course work in approved related areas. The required courses are MATH 210 and 211 (or 220 and 221), 213, 216, 227, 273, and at least 3 additional credits from any of the following courses: MATH 215, 217, 225, 250, and 258. The remaining credits may come from any 200-level Mathematics courses, except MATH 242W, 247 and 248.

**Bachelor of Science in Mathematics:** The requirements for the B.S. in Mathematics are: MATH 220 and 221 (or 210 and 211), 213, 216, 227, 273-274, at least 6 additional credits from any of the following courses: MATH 204, 215, 217, 223, 224, 225, 231, 232, 235, 237, 250, 252, 255, 258, 272, 277, 278, 281, 282, 286, and approved sections of 297 and 298, and at least 3 additional credits from any of the following courses: MATH 215, 217, 225, 250, and 258. In addition, at least 12 credits at the 200 level in approved related areas are required.

**Bachelor of Arts in Applied Mathematical Sciences:** The requirements for the B.A. in Applied Mathematical Sciences are 27 credits of 200's level course work in Mathematics and at least 12 credits in approved related areas. The required courses for the degree are MATH 210 or 220, 211 or 221, 215 or 227, 272, 281, and 282. The remainder of the 27 credits of Mathematics must be chosen from MATH 204, 213 or 214, 231, 232, 237, 252, 255, 273, 277 and 278.

**Bachelor of Science in Applied Mathematical Sciences:** The requirements for the B.S. in Applied Mathematical Sciences are MATH 220 (or 210 and 211), 213, 227, 272, 273, 281, and 282, and two courses to be selected from MATH 204, 221, 231, 232, 237, 252, 255, 274, 277, 278, and approved sections of 297 and 298, and at least 3 additional credits from MATH 215, 216, 217, 223, 224, 231, 235, 250, 258, 286, and approved sections of 297 and 298. In addition, at least 12 credits at the 200 level in approved related areas are required.

**Bachelor of Science or Arts in Mathematics-Statistics:** The requirements for the B.S. or B.A. in Mathematics-Statistics degree are 36 credits at the 200's level in Mathematics and Statistics (in addition to MATH 210 or 220), with at least 12 credits in each department. The required courses for the Mathematics-Statistics major are MATH 215 or 227, 211 or 221, and STAT 230 and 231. To satisfy the Writing in the Major and Information Literacy competencies, all students must pass one of the following courses: MATH 201W, MATH 202W, MATH 242W, MATH 292W, or STAT 202W.

**Bachelor of Science or Arts in Mathematics-Actuarial Science:** The requirements for the B.S. or B.A. degree in Mathematics-Actuarial Science are 36 credits at the 200 level in Mathematics, Statistics, Business, and related areas (in addition to MATH 210 or 220). The required courses are MATH 227 or 215,

231, 232 (or STAT 235), 285, 286, 287-288, STAT 230-231, and FNCE 221 or 225. Students should include ECON 111 and 112, a Computer Science course, and ACCT 131 and 200 in their program of study as early as possible. To satisfy the Writing in the Major and Information Literacy competencies, all students must pass one of the following courses: MATH 201W, 202W, 242W, 291W, or 292W.

Admittance to this program is available only to students who meet at least one of the following requirements:

- a total grade point average of 2.75 or higher;
- a total grade point average of 3.0 or higher in Mathematics;
- a passing score on one or more Actuarial examinations;
- acceptance by the Mathematics Department's Actuarial Science Committee.

To remain in the Actuarial Science Major, students are expected to maintain a total grade point average of 2.75 or higher.

A minor in Mathematics is described in the "Minors" section.

### Modern and Classical Languages

The Department of Modern and Classical Languages offers courses in French, German, Hebrew, Italian, Portuguese, Spanish, the classical languages, and selected critical languages. Students may major in Classics and Ancient Mediterranean Studies, French, German, Italian Literary and Cultural Studies, Portuguese, or Spanish or a combination of languages. The department aims to give students a working knowledge of foreign languages for teaching, research, travel, business, diplomatic or governmental work, and for graduate or undergraduate study of the civilization and literature of a foreign country.

Ordinarily study abroad or internship in the major **modern** language for at least one semester (or approved equivalent time period) will be required for all majors. With the advisor's consent students may choose from a variety of programs. The department conducts programs in Austria, France, Italy, Spain and Germany, sponsors a resident study program in Mexico and offers credit arrangements for study at a Goethe Institute in Germany. Such study normally is most valuable during the junior year, but unusually qualified sophomores and some seniors are also eligible. (The year abroad program in Italy welcomes applications by sophomores, juniors and seniors.) Additional language experience is available through residence in the University's Foreign Language dormitory. Students interested in any of these possibilities should consult early with their advisors.

Courses numbered in the 200's are open to freshmen and sophomores if they meet the prerequisites for the course. In the modern languages, classwork is conducted in the foreign language unless otherwise indicated.

#### Classics and Ancient Mediterranean Studies

The major in Classics and Ancient Mediterranean Studies allows students to pursue an interest in the Greek, Latin, and Ancient Hebrew/Biblical world. Students may choose to pursue a traditional, language-oriented (Greek or Latin) concentration in Classics or a concentration in Ancient Mediterranean Studies. Students who concentrate in Classics may take courses in Ancient Mediterranean Studies in addition to their language and literature requirements. Those who concentrate in Ancient Mediterranean Studies may also pursue some relevant language study (Greek, Latin, or Biblical Hebrew). Either concentration will lead to a major in Classics and Ancient Mediterranean Studies.

**Concentration in Classics.** Students must complete a minimum of 8 courses from the following:

A. At least two courses involving reading in Greek and/or Latin: CAMS 207, 208, 211, 212, 213, 214, 215, 221, 224, 225, 226, 227, 230, 231, 232, 293\*, 295\*, 298\*, 299\*.

\*May count toward major only with consent of advisor.

B. At least one writing course on Classical literature in English: CAMS 241W, 242W.

C. At least two other courses dealing with the ancient world CAMS 243, 244, 251, 252, 253, 254, 255, 256, 257, 293\*, 295\*, 298\*, 299\*. (These may be cross-listed under Art History, History, Judaic Studies, and Philosophy.) JUDS/HEB 201 and INTD 294 may also be included.

\*May count toward major only with consent of advisor.

**Concentration in Ancient Mediterranean Studies.** Students must complete a minimum of 8 courses from the following: CAMS 243, 244, 251, 252, 253, 254, 255, 256, 257, 293\*, 295\*, 298\*, 299\*. (These may have cross-listings

under Art History, History, Judaic Studies, and Philosophy.) JUDS/HEB 201 and INTD 294 may also be included.

\*May count toward major only with consent of advisor.

To satisfy the information literacy and the writing in the major competencies, all students must take CAMS 241W or 242W.

A minor in Classics and Ancient Mediterranean Studies is described in the "Minors" section.

#### French

The French major requires a minimum of 30 credits in 200-level French courses and 12 credits in 200-level "related courses" from departments other than French. All majors must complete the following courses: FREN 211, 261W, 262W, 268W, 269 and either 257 or 258. Students may follow the French for the Global Community track or the French Cultural and Literary Studies track.

French majors pursuing the French for the Global Community track must complete 12 credits, distributed as follows:

- FREN 215, 216 or 222
- FREN 217
- FREN 224 or 280 or 283
- FREN 218 or 281

French majors pursuing the French Cultural and Literary Studies track must complete 12 credits, distributed as follows:

- FREN 210, 223 or 224
- FREN 220, 221 or 222
- FREN 218, 230, 231, 232, 233, 234, 235, 280, or 281
- FREN 272

Study Abroad in our Paris program is required for all French majors. Any of the above courses may be replaced, with advisor approval, by an appropriate FREN 293 course from study abroad in Paris.

**Study Abroad in Paris:** French majors must complete at least a semester in the study abroad program in a Francophone culture. Students participating in the Paris program attend the University of Paris, and may earn a full academic year's credit at the University of Connecticut and a maximum of 15 credits toward the major in French. The department encourages interdisciplinary work in this program, and wishes students to take courses in other disciplines wherever possible.

To satisfy the writing in the major and information literacy requirements, all majors must take FREN 261W, 262W, and 268W.

A minor in French is described in the "Minors" section.

#### German

Students majoring in German have a choice between a concentration in German literature or German studies. For the concentration in German literature the following courses are required: 1) 233, 234, 246; 2) three from among the following literature courses: 253W, 254W, 255W, 293 (on a literary topic), 296 (on a literary topic), and 298 (on a literary topic); 3) one from 200, 231, 232, 245, 281W, 285, 290, 293 (on a non-literary topic), 296 (on a non-literary topic) and 298 (on a non-literary topic); and 4) one of the following courses taught in English: 251, 258, or 284W. (Only one course taught in English is allowed toward the literature major.)

For the concentration in German studies the following courses are required: 1) 233, 234, 246; 2) either 251 or 258; 3) three from 200, 231, 245, 281W, 284W, 285, 290, 293 (on a non-literary topic) and 296 (on a non-literary topic) and 298 (on a non-literary topic); 4) one of the following literature courses: 253W, 254W, 255W, 293 (on a literary topic), 296 (on a literary topic) and 298 (on a literary topic) (Only two courses taught in English are allowable toward the German studies major.)

To satisfy the Information Literacy Competency requirement, the following courses are required:

- 1) one of 233, 234; and
- 2) one of 253W, 254W, 255W, 281W, 284W; and
- 3) 246.

To satisfy the writing in the major requirement, all majors must take one of the following courses: 253W, 254W, 255W, 281W, 284W.

**Eurotech.** In collaboration with the School of Engineering, the German Section offers Eurotech, a carefully structured five-year, double-degree program enabling students who have been admitted to the School of Engineering to earn

both a B.A. in German and a B.S. in Engineering. The program includes German language courses specially designed to include engineering content, engineering courses partly taught in German, and a six-month internship in a German-speaking company. There is a special emphasis on environmental engineering and pollution prevention. Eurotech students may substitute GERM 220, 221, and 222 for one of the courses in category 3 required of majors in German literature; and for one of the courses in category 2 required of majors in German Studies.

**Study Abroad in Austria and Germany.** The University of Connecticut sponsors a variety of programs in Salzburg, Regensburg and a number of universities in the State of Baden-Württemberg that allow students to follow their own concentration and interests. Students also have the possibility of work-study programs and internships.

A minor in German is described in the “Minors” section.

### Italian Literary and Cultural Studies

The major allows students to pursue a traditional concentration in Italian literary studies or a concentration in Italian cultural studies. Students who concentrate in Italian literary studies may take courses in Italian cultural studies in addition to their language and literature requirements. Those who concentrate in Italian cultural studies may also pursue relevant Italian literary studies.

#### Concentration in Italian Literary Studies

Students must complete a minimum of 8 courses (the equivalent of 24 credits) to be chosen among the following: ILCS 237, 238, 239, 240, 243, 244, 250, 251-252, 253, 254, 261, 262, 259. No more than 12 credits earned in Florence may count toward the major.

#### Concentration in Italian Cultural Studies

Students must complete a minimum of eight courses (the equivalent of 24 credits) from the following:

A. Three 200 level Italian courses from the following: ILCS 255W, 256, 258/258W, 260W, 237, 238, 243, 244, 250, 251-252, 253, 254, 261, 262, 259. Note that ILCS 239 and 240 may not apply to Group A.

B. Two courses from the following: HIST 216, 267, 269, 271, 297

C. Three courses to be chosen from the following: ARTH 251, 272, 273, or MUSI 292, 213; or ENGL 278W

Students must demonstrate proficiency in Italian at a level equivalent to ILCS 147.

**Study Abroad in Italy.** Students participating in the *Florence Study Program* may earn up to 30 credits during the academic year they spend in Florence; participants register at the University of Florence where they may take courses in any discipline. The program also offers courses designed exclusively for its participants and taught by Italian professors. No more than 12 credits taken in Florence may count toward a major in Italian at this University.

To satisfy the information literacy competency, all students must take ILCS 255W, or 260W, or 258W. To satisfy the writing in the major requirement, all students must take ILCS 255W, or 260W, or 258W.

A minor in Italian Cultural Studies and a minor in Italian Literary Studies are described in the “Minors” section.

### Spanish

**The Major Group.** Spanish courses comprise two main groups: A. Literature. B. Language and Culture.

A. At least 4 courses must be taken from the literature group: 202, 207, 208, 209, 220, 223, 224, 225, 226, 281, 282, 292W, 294, 295, 296, 297.

B. At least 2 courses must be taken from the language-culture group: 200, 201, 204, 205, 206, 208, 210, 270, 279, 290, 291W; 293 (Foreign Study) may be counted in either group depending on course content.

To satisfy the information literacy and writing in the major requirements, all students must pass one of SPAN 278W, 291W, or 292W.

**Study Abroad in Spain and Latin America.** Courses taken abroad in the programs operated by UConn in Granada, Spain or Puebla, Mexico will count toward the Spanish major as follows:

A maximum of 4 courses, or 12 credits taken abroad may be counted toward the major.

Programs are also available in Argentina, Chile, and the Dominican Republic for advanced Spanish language students.

A minor in Spanish is described in the “Minors” section.

### Philosophy

The program in philosophy introduces students to basic philosophical issues and acquaints them with techniques of philosophical inquiry. The program addresses problems in ethics, social and political philosophy, metaphysics, theory of knowledge, philosophy of science, logic, philosophy of religion, and aesthetics from both historical and contemporary perspectives.

Students majoring in philosophy must earn 24 or more credits in philosophy courses numbered above the 100's level, and 12 or more credits in related fields. Within the 24 credits in philosophy, students must pass PHIL 221 and 222, and at least two of the following four courses: PHIL 210, 211, 212, and 215. Students meeting the requirements for the major will automatically meet the exit requirements for information literacy. The exit requirement for writing in the major can be satisfied by passing any 200-level W course in Philosophy.

A minor in Philosophy is described in the “Minors” section.

Philosophy also offers a joint-major with the Department of Linguistics. The description of the Linguistics-Philosophy major appears under the Linguistics major.

### Physics

Physics, a fundamental and quantitative science, involves the study of matter and energy, and interactions between them. The subject is generally divided into mechanics, electricity and magnetism, statistical and thermal physics, and quantum physics. These form the foundation for present-day research areas, which include astrophysics, atomic, molecular and optical physics, condensed matter physics, nuclear physics, and the physics of particles and fields. In addition to a knowledge of physics, students gain a rigorous training in logical thinking and quantitative problem solving. An education in physics can also provide an entry into many other fields such as biophysics, geophysics, medical physics, and engineering, as well as into less technical fields such as secondary education, technical sales, and science writing. Many students have also found that physics is an excellent preparation for the study of medicine, dentistry, or law.

The preferred introductory sequence for a major in physics, common to all physics degree programs, consists of PHYS 140Q, 141Q, and 142Q. There are two options for the Bachelor of Science degree in physics: (1) the general option for students seeking to further their physics studies in graduate school and/or a career in research, and (2) the applied option, for students seeking graduate study in another field, medicine or dentistry, or a technical career in industry. The Bachelor of Arts degree in physics is ideal for pre-medical, pre-dental, or pre-veterinary students, students seeking double majors, or students seeking a middle or high school teaching career. There is also a Bachelor of Science in Engineering Physics offered jointly with the School of Engineering with possible emphases on Electrical Engineering, Mechanical Engineering, or Metallurgy and Materials Engineering.

In order to satisfy the information literacy exit competency requirement in the Physics Major, either PHYS 230 or PHYS 292W is required. Students will satisfy the University's computer technology and writing competency requirements by passing PHYS 258W, which is required of all Physics majors. Courses that further enhance competencies are PHYS 220 for computer technology, and PHYS 292W for writing skills. These requirements apply to both the Physics BS and the BA degrees.

#### Bachelor of Science, General Option:

A total of 48 credits from 200-level courses in physics, other sciences, mathematics, or engineering are required. Among these, 36 credits must be physics courses. The 36 credits of physics must include PHYS 230, 242, 255, 257, 258W, 261, and 271, and at least three credits of an advanced laboratory (PHYS 256, 259, or 285). It is strongly recommended that students going on to graduate school in physics take PHYS 262. All students are strongly encouraged to participate in an undergraduate research project. An experimental research project (PHYS 299) may count towards the advanced laboratory requirement. No more than two credits from PHYS 291, and no more than six credits from PHYS 299 may be counted towards this degree option. The general option for the Bachelor of Science degree requires a minimum of 12 credits from 200-level related courses in mathematics, other sciences, or engineering.

**Bachelor of Science, Applied Option:**

A total of 48 credits from 200-level courses in physics, other sciences, mathematics, or engineering are required. Among these, 30 credits must be physics courses. The 30 credits must include PHYS 209, 210, 230, 258W, and 271, plus a minimum of nine credits from the following eight courses: PHYS 256, 259, 273, 274, 275, 281, 285, and 325, with at least three of the nine credits being from an advanced laboratory (PHYS 256, 259, or 285). These eight courses involve the application of knowledge from multiple basic subjects, i.e., from mechanics, electricity and magnetism, statistical and thermal physics, and quantum mechanics. (PHYS 242 and 255 together may replace PHYS 209.) All students are strongly encouraged to participate in an undergraduate research project. An experimental research project (PHYS 299) may count towards the advanced laboratory requirement. The applied option for the Bachelor of Science degree requires a minimum of 12 credits from 200-level related courses in mathematics, other sciences, or engineering. To complete the 48 total required credits for the applied option, the remaining six credits may come from 200-level courses in physics, other sciences, mathematics, or engineering. No more than two credits from PHYS 291, and no more than six credits from PHYS 299, may be counted towards this degree option.

**Bachelor of Arts:**

A total of 36 credits from 200-level courses in physics, other sciences, mathematics, or engineering are required. Among these, 24 credits must be physics courses. These 24 credits must include PHYS 209, 210, 230, and 258W, along with 12 credits of elective physics courses. (PHYS 242 and 255 together may replace PHYS 209.) No more than two credits from PHYS 291, and no more than six credits from PHYS 299, may be counted towards this degree. The Bachelor of Arts degree requires a minimum of 12 credits from 200-level related courses in mathematics, other sciences, or engineering.

**Bachelor of Science in Engineering Physics:**

Offered jointly by the School of Engineering and the Department of Physics in the College of Liberal Arts and Sciences, Engineering Physics majors can concentrate in either (1) Electrical, (2) Materials Science and Engineering or (3) Mechanical. Students must satisfy the course requirements of both the College of Liberal Arts and Sciences and the School of Engineering to complete this degree.

The major requires 128 credits of course work.

Engineering Physics majors are required to complete the following:

CHEM 128Q or 130Q

PHYS 230, 242, 255Q, 257, 258W, and 261

MATH 210Q, 211Q, and 272

*Electrical Engineering* - ECE 202, 210W, 212, 228, 229, 232, 241, 245, 290, and 291; CSE 210W; MATH 227Q; PHYS 271; STAT 224Q, Elective courses (4 credits).

*Mechanical Engineering* - ME 220, 227, 233, 234, 242, 250, 253, 272 and 273W; CE 211, 287; STAT 224Q; ME Elective Courses (6 credits); PHYS Elective courses (6 credits).

*Materials Science and Engineering* - MMAT 236W, 243, 244, 255, 256, 265, 266, 284, 285 and 286, 287 and 288W; CHEG 256; PHYS 273 and 281; MMAT Elective Courses (6 credits); Physics Elective Courses (3 credits).

Students in the Bachelor of Science in Engineering Physics are required to pass ENGR 100 in addition to PHYS 230 in order to satisfy the information literacy competency requirement; they are required to pass CSE 123 or the equivalent, in addition to PHYS 258W, in order to satisfy the computer technology competency requirement; and PHYS 258W will suffice to satisfy the writing in the major requirement.

The options for the electives courses are specified in the *Engineering Physics Guide to Course Selection*.

A minor in Physics is described in the "Minors" section.

## Political Science

Political Science serves students whose primary interest is in some phase of public affairs (law, politics, government service) or international relations (foreign service), in gaining a better understanding of the entire field of governmental organization and functions.

**Major Courses:** A minimum of 24 credits in Political Science numbered 200 or above (none on a pass-fail basis). Inter-departmental courses may not be included in the 24 credits. No more than 6 credits of independent study and/or field work can be counted toward the 24 credits.

**A.** Students majoring in Political Science must pass introductory 100-level courses in three of the following four subdivisions: Theory and Methodology (106), Comparative Politics (121 or 143), International Relations (132), and American Politics (173). It is recommended that these courses should be taken during the student's first two years of study.

**B.** All majors in political science must pass at least one course in **four** of the following six subdivisions (total of 12 credits). A W or Q course may be substituted for the same numbered course. Cross-listed courses may count only once toward this distribution requirement:

I. Theory and Methodology: 201, 202, 204, 206W, 207, 291

II. Comparative Politics: 203, 223, 228, 230, 231, 232, 233, 235, 237, 239, 244, 258

III. International Relations: 211, 212, 215, 216, 217, 218, 219, 220, 221, 222, 224, 225, 226, 227, 279

IV. American Politics: 241, 242, 245, 247, 248, 249, 263, 270, 273, 274, 275

V. Public Administration, Policy and Law: 250, 251, 252, 253, 255, 256, 259, 260, 261, 264, 266, 276, 277

VI. Race, Gender, and Ethnic Politics: 203, 204, 225, 239, 245, 247, 248, 249, 256, 263

POLS 296 and 298 may be counted toward this distribution only with consent of advisor. POLS 208, 287, 288W, 289, 297, 299 may **not** be counted toward the Group B distribution requirement.

The writing in the major requirement may be satisfied by passing any 200 level W course. Advanced information literacy exit requirements are incorporated into all Ws in the major, and students who successfully complete political science W courses will have met this requirement.

A minor in Political Science is described in the "Minors" section.

## Psychology

The Psychology Department recommends that its majors take a broad selection of psychology courses and electives to obtain a well-rounded introduction to the science. The Department encourages students to participate in its research activities, including laboratory courses, research seminars, and independent study experiences.

The Department advises students planning to major in psychology to secure a background in the basic sciences and relevant social sciences, preferably before their junior year. Suggested courses include BIOL 102, 107, or 108; ANTH 106 or 220; and SOCI 107. If at all possible, majors should take STAT 110Q (or 100Q) by their third semester.

A maximum of seven 200-level transfer credits in Psychology may count toward the major upon approval of the Transfer Coordinator in Psychology.

The following core curriculum is required: Two introductory-level psychology courses - General Psychology I 132 and either General Psychology II 133 or General Psychology II (Enhanced 135) - followed by at least twenty-four 200-level psychology credits including:

**Group I. Foundation.** Both courses: 202Q/202WQ and 291/291W.

**Group II. Social and applied science perspectives.** Two courses chosen so that two of the following four areas are represented: (a) Developmental Psychology 236; (b) Social Psychology 240; (c) Personality 243 or Abnormal Psychology 245/245W; (d) Industrial/Organizational Psychology 268.

**Group III. Natural science perspective.** Two courses (Bachelor of Arts degree) or three courses (Bachelor of Science degree) chosen so that two of the following five areas are represented: (a) Learning 220; (b) Cognitive Psychology 256; (c) Psychology of Language 221; (d) Animal Behavior 253 or Physiological Psychology 257; (e) Sensation-Perception 254.

**Group IV. Laboratory Courses.** Two courses from the following (Bachelor of Science degree only): 210W, 211W, 215, 232W, 242, 244, 263/263W, 267/267W.

**Additional 200-level psychology courses.** (At least six credits for the Bachelor of Arts degree; optional for the Bachelor of Science degree.) May include any courses taken for Groups II and III that are not used to fulfill those "core" requirements, as well as any psychology course in the *Catalog*. Up to three credits of PSYC 297 or 299 can be used, and PSYC 294 cannot be used.

**Related 200-level non-psychology courses.** At least 12 credits. Must be approved by advisor prior to registration. Because of content overlap, COMM

210, EPSY 221, and HDFS 202 may not be used.

To satisfy the computer technology competency, all students must pass PSYC 202Q/202WQ. Other courses that will further enhance competency in computer technology include PSYC 210W, 232W, 244W, 263W, 267W, 296W, 297, and 299.

To satisfy the information literacy competency, all students must pass PSYC 202Q/202WQ. Other courses that will further enhance competency in information literacy include PSYC 132, 135, 210W, 232W, 244W, 263W, 267W, 296W, 297, and 299.

To satisfy the writing in the major requirement, all students must pass PSYC 202WQ. Other courses that will further help students develop writing skills in psychological science are PSYC 205W, 210W, 232W, 239W, 241W, 244W, 245W, 263W, 267W, 270W, 280W, 282W, 291W, and 296W. For students who have taken PSYC 202Q rather than 202WQ, one or more of the above courses may be substituted with the permission of the Department Head.

There is a minor in Psychology. A minor in Neuroscience is offered jointly by the Psychology Department and the Physiology and Neurobiology Department. Both programs are described in the “Minors” section.

Psychology also offers a joint-major with the Department of Linguistics. The description of the Linguistics-Psychology major appears under *Linguistics*.

## Sociology

Sociology is an analytic discipline concerned with understanding people as creators of, and participants in, society. The field is broadly concerned with the study of modern society and its social organization, institutions, groups, and social roles. Sociologists study social influences on human behavior, such as sexuality, ethnic identity, and religious belief, and how individuals become members of families and communities. The field is also concerned with social problems, especially all forms of prejudice, discrimination, and inequality, and with poverty, crime, violence, and the threatened environment. Sociologists emphasize sources of social problems in the organization of society, public policies for their alleviation, and today’s questions of social justice. Finally, they study how individuals, both alone and working in groups, can change the society in which they live. A major in sociology opens many doors for careers and is excellent background for advanced training in a variety of other fields.

At least 24 credits of SOCI courses at the 200-level or above are required:

Three specific courses are required of all majors: SOCI 205, 207Q, 270. (Note: Students must take SOCI 107, 115, 125, or 133 prior to taking SOCI 205, 207Q, and 270.)

Passing SOCI 205 satisfies the information literacy competency, and passing SOCI 207Q satisfies the computer technology competency. To satisfy the writing in the major requirement, students must pass one of the following courses: SOCI 216W, 217W, 218W, 219W, 226W, 227W, 230W, 240W, 242W, 243W, 244W, 245W, 247W, 248W, 249W, 250W, 252W, 253W, 255W, 258W, 259W, 260W, 265W, 267W, 268W, 269W, 270W, 280W, 281W, 282W, 283W, 288W, 290W, 294W, 296W.

At least one course must be taken from the following group: Inequality, Diversity, and Change (SOCI 221, 222, 226, 227, 235, 236, 240, 242, 243, 245, 249, 252, 258, 268, 269, 282, or 290)

Twelve additional credits (usually four courses) must be taken from any 200-level (or greater) courses offered by the department, including those listed above. (Note: No more than three credits of SOCI 296 can apply to the major.)

A minor in Sociology is described in the “Minors” section.

## Statistics

The Statistics Department offers a major in statistics and a major in mathematics-statistics, the latter jointly with Mathematics.

The statistics major requires 24 credits at the 200 level in statistics, including STAT 230 and 231. MATH 215 or 227 and CSE 110 or 130 are strongly recommended. Since STAT 230 has MATH 210 or 220 as a prerequisite, students should begin the calculus sequence as soon as possible.

The mathematics-statistics major requires a total of 36 credits at the 200-level in mathematics and statistics (in addition to MATH 210 or 220), with at least 12 credits in each department. The required courses in the mathematics-statistics concentration are MATH 215 or 227, and 211 or 221, and STAT 230 and 231.

Students without mathematical background who wish some skill in statistical methodology should take STAT 110 followed by 201. Students interested in the statistical analysis of business and economic data should take STAT 100 followed by 201. Students with the appropriate calculus prerequisite should take STAT 220 rather than STAT 110 or 100 and 201. STAT 242 and 243 are appropriate

continuations for each of these three introductory sequences. Students interested in statistics as a mathematical discipline should complete STAT 230-231.

Satisfying the requirements for the statistics or mathematics-statistics major will satisfy the computer technology requirement. To satisfy the information literacy competency and writing in the major requirement, statistics majors must take the STAT 200 and 202W sequence, while mathematics-statistics majors must take one of the following courses: MATH 201W, 202W, 242W, 292W, or the STAT 200 and 202W sequence.

A minor in Statistics is described in the “Minors” section.

## Urban and Community Studies

The undergraduate major in Urban and Community Studies is an interdisciplinary program in the College of Liberal Arts and Sciences with a focus on educating citizens on the multiple dimensions of urban and community life and preparing students for careers in public and community service as well as graduate study in social work, public administration, law, public health, or other related areas.

The major has three parts. First, students receive a broad education in the study of cities, suburbs, neighborhoods and communities through core courses in three fields drawn from Economics, Geography, History, Political Science, Public Policy, Sociology, and Anthropology (URBN 248). Second, students acquire a solid foundation in analytical techniques such as statistical analysis, survey research, geographic information systems, qualitative methods, or archival research. Finally, students take three additional electives in order to broaden their academic training or to develop a deeper specialization in selected areas.

### Requirements of the major.

1. URBN 230
2. Three of the following with no more than one per department (cross-listed courses count towards the non-URBN department): ECON 221, 223; GEOG/URBN 233, GEOG 274; HIST/URBN 241; HIST 246, 247; POLS 260 or PP 260; POLS/URBN 263; PP 277; SOCI/URBN 280, SOCI 284, 285; URBN 248.
3. One of the following: ECON 217, GEOG 242, POLS 291, SOCI 205, STAT 201, URBN 220.
4. Three additional courses selected from group 2, group 3, or the following list: ECON 220, 253; ECON/URBN 259; GEOG 246, 280, HIST 238, 260, 278, 294; HDFS 201, 274, 276, INTD 211; POLS 248, 249, 274, 276; PP 274, 276; SOCI 248, SOCI/URBN 281, SOCI 283; URBN 232 or INTD 212; URBN 290, 295, 298, 299.

In order to assure a breadth of experience, students are encouraged to take courses which include content in each of the following areas: change over time, structural and spatial dimensions, diversity, power and decision-making, and political and social processes. One unique option for students is to enroll in the 15 credit Urban Semester Program, which provides major credit for two courses INTD 211 and 212.

Students interested in pursuing a program in Urban and Community Studies are advised to complete 100-level courses in the social sciences which are prerequisites for courses in Urban and Community Studies. These include, but are not limited to, GEOG/URBN 130, ECON 112, POLS 173, SOCI 107, SOCI 115, and STAT100Q/110Q. They should also plan on enrolling in URBN 230, which is open to sophomores, as soon as possible.

The writing within the major requirement can be met by taking any of the following courses: GEOG 280W, HIST/URBN 241W, POLS/URBN 263W, SOCI 248W, SOCI/URBN 280W, SOCI/URBN 281W, SOCI 283W, or any 200-level W course approved for this major. Students should be aware, however, that availability of specific W courses varies by campus. The information literacy requirements are met by successfully completing URBN 230.

A minor in Urban and Community Studies is described in the “Minors” section.

## Women’s Studies

The Women’s Studies Program is a flexible interdisciplinary academic program devoted to the critical analysis of gender and the pursuit of knowledge about women. Combining the methods and insights of traditional academic disciplines with the special insights of Women’s Studies scholarship, our courses yield fresh perspectives which help us to understand the origins of and changes in diverse cultural and social arrangements. The Women’s Studies major is broad as well as flexible, and the student’s program can readily reflect individual interests or complement a second major.

Gender is a common thread in our offerings, but it always interweaves with race, class, and other factors which contribute to the diversity of women’s lives.

The Women's Studies Program is committed to a vision of women and gender that is truly international and cross-cultural. Without this perspective, our view of the world is profoundly impoverished and stereotypes will continue to distort our understanding.

The Program prepares students to employ critical learning in their private lives, in their public roles as citizens and as members of the work force, and enhances their ability to work with and for women to create a more humane society. Women's Studies fosters interdisciplinary breadth and critical thinking and thus opens the way to a wide variety of career choices and graduate programs. Women's Studies students are flourishing in social service agencies, business, law, education, and journalism, and employers appreciate the broad interdisciplinary perspective of a Women's Studies education.

### Core Courses

Students are required to pass the following Core Courses:

One 100 level WS Introductory Course; WS 265W; PHIL 218 or WS 250; WS 261/262; WS 289W

### Supporting Courses

Students are required to pass five Supporting Courses. In addition, majors must complete at least 15 credits of 200 level courses that should be selected with the guidance of their faculty advisor. At least three of these courses will be Women's Studies or cross-listed courses. Two of the five supporting courses may include cross-referenced courses that cover special topics relevant to feminist scholarship in various departments. Such cross-referenced courses will be applied to the major with approval of the Program Director.

### Related Courses

Students must pass an additional 12 credits at the 200 level or above in fields closely related to the major. No required course in the major or in the related area may be taken pass/fail.

### General Education Competencies

Information Literacy and Writing in the Major: Passing the core courses WS 265W and WS 289 W will fulfill these competencies.

A minor in Women's Studies is described in the "Minors" section.

## Alternative Areas of Study

**African American Studies Institute.** The primary mission of the Institute is to enlighten and inform people about the history, culture, contributions and experiences of people of African descent in the United States. To achieve this goal, the African American Studies Institute promotes high quality research, scholarship, and teaching of the African American experience and sponsors a wide variety of programs on topics and issues that are critical to Black America and pertinent to a better understanding of the Black world. The Institute is located in Wood Hall. Professor Jeffrey O. G. Ogbar is Director. Phone (860) 486-3630.

**Air Force Studies.** Under Public Law 88-647, the Air Force Reserve Officer Training Corps (AFROTC) offers courses to prepare interested college students for United States Air Force officer commissions; other college students who have no interest in military commissions may also take these courses for credit. Qualified students may apply for Air Force ROTC scholarships. Current Air Force ROTC membership isn't necessary to apply for these scholarships; however, a student who receives and accepts an AFROTC scholarship must participate in the AFROTC program while in college and serve in the Air Force as an officer upon graduation and commissioning.

The basic Air Force ROTC course, called the General Military Course (GMC), covers the freshman and sophomore years; juniors, seniors and others may also participate. Unless they've already accepted AFROTC scholarships, students aren't obligated to the Air Force at this time. During the first two years, students take a one-credit Air Force ROTC class each semester; we recommend the following sequence: AIRF 113, AIRF 114, AIRF 123 and AIRF 124. They also attend Leadership Laboratory, a cadet-run, two-hour-a-week session.

The advanced course, called the Professional Officer Course (POC), covers the junior and senior years. Before entering this phase, students must secure an Air Force officer candidate allocation and successfully complete four-weeks of summer field training. Students who do not complete the entire GMC enroll the same way, but attend field training for six weeks. If interested in an Air Force commission, cadets sign a contract obligating them to service in the Air Force at the beginning of their junior year unless they have previously agreed to the commitment through acceptance of a scholarship.

In the POC, students take a three-credit AFROTC class every semester and attend Leadership Laboratory (other students may take only the academic classes without obligation to the Air Force). Cadets must maintain full-time student status. Students in the POC receive a nontaxable stipend of \$350-400 per month. The Air Force commissions these students as second lieutenants after graduation and completion of all AFROTC requirements. For most AFROTC graduates there is an initial obligation of four years on active duty in the Air Force.

Please contact the Air Force ROTC office at (860) 486-2224 for further information. Information can also be found at: [www.airforce.uconn.edu](http://www.airforce.uconn.edu).

**Asian American Studies Institute.** The Asian American Studies Institute is an interdisciplinary research, teaching and publication program devoted to study of the Asian American experience within the larger context of an evolving American society. Of special importance is the internment of Americans of Japanese ancestry during World War II. Although the primary focus of the Institute is upon Asians in America, attention is also given to a study of Asia, since the unique cultural sources of Asian Americans are rooted in Asia.

Although not offering a degree program, the Institute does offer a concentration in Asian American Studies at the undergraduate level in the fields of Allied Health, English, Geography, History and Sociology. These courses, whose common thread is the Asian American experience, offer a comparative analysis of class, gender and Asian ethnicity. In addition, these courses explore the neglected aspects of the cultural, historical, socioeconomic and political experiences of Asian Americans.

The goal of the Institute is to prepare students for positions of leadership and service by cultivating a broad understanding of America's racial and cultural diversity. The goal of the Institute is to also prepare students to employ critical learning in their private lives as citizens. To complement its academic mission, the Institute serves the community beyond the University as a resource for information and advocacy.

Students wishing to specialize in Asian American Studies can take the following courses: AASI 221, 239, 274, 277, 287, 288, 294, 298. Check with the Institute to find which AASI Special Topics courses are being offered currently.

Permanent features of the Institute's programming include: annual publication of the newsletter *The Asian American*; an annual guest lecture series; the Asian Community in Connecticut Research Publication Series; the Fred Ho Collection and biennial Fred Ho Prize in Asian American History and Culture; the annual Asian American Heritage Observance; the Asian Medicinal Garden; and the Japanese American Internment Resource Library and Oral History Project.

The Institute is directed by Professor Roger N. Buckley, Room 416, Beach Hall. For further information, contact the Asian American Studies Institute, Beach Hall, Room 416. (860) 486-4751; FAX (860) 486-2851.

**Comparative Literary and Cultural Studies.** Students interested in comparative literature may take a wide range of comparative literature courses (no foreign language requirements) as well as courses offered by the participating literature departments. For advice about integrating the study of several literatures and preparing for further work in comparative literature, students may consult the chair, Lucy McNeece, or any member of the comparative literature faculty.

**Judaic Studies.** Courses in Judaic Studies are listed under Judaic Studies as well as Hebrew (Modern and Classical Languages), History and Sociology. Students may major in Judaic Studies through the College of Liberal Arts and Sciences Individualized Major. The description of a minor in Judaic Studies is listed in the "Minors" section of this *Catalog*. For further information about current courses you are invited to contact the Center for Judaic Studies and Contemporary Jewish Life, Unit 1205, Dodd Center; Stuart S. Miller, Associate Director, or Arnold Dashefsky, Director.

**Law.** The process of applying for admission to law school begins in the student's final year of academic work as an undergraduate. Pre-law advising services provides general information and procedural advice about each element of the application process. In addition, prospective applicants can receive information to help them select law schools from among the nearly 200 ABA-accredited schools across the country. Students with general questions about the legal profession, the bar admission process and employment opportunities in the legal profession are also welcomed.

Pre-law advising services are available to all UConn undergraduates on all campuses in any year of their undergraduate career, regardless of major field,

program or specialization. Students are invited to come in during the regularly scheduled office hours established for each semester. Appointments are available by pre-arrangement. Contact Frank M. Goetz, Monteith Building, Room 132, telephone: (860) 486-3165, e-mail: frank.goetz@uconn.edu.

**Medicine and Dentistry.** Students planning for a career in medicine or dentistry need a rigorous and broad education in the liberal arts and sciences, as well as a strong record of academic achievement. Guidance in the structuring of academic programs, including selection of a major, should be done in consultation with advisors from the Pre-medical/Pre-dental Advising office.

Medical and dental schools require that students take a year of general and organic chemistry including lab, physics (one year), biochemistry, genetics, and physiology prior to taking admissions tests (e.g. MCAT or DAT). Students need to take the MCAT in April or August of the year before they apply. The DAT can be taken anytime. Students typically apply for admission into medical or dental school during the summer between their junior and senior years. Students should contact the Pre-medical/Pre-dental Advising Office early in their junior year to arrange for a composite letter of recommendation. Students with questions can access the Pre-medical and Pre-dental web page at: <http://www.premed.uconn.edu> or contact advisors by phone at (860) 486-5415.

**Medieval Studies.** Students wishing to gain broad cultural and scholarly grounding in the Middle Ages in conjunction with a departmental specialization may consult the chairman or one of the members of the Committee for Medieval Studies. T. Jambeck and R. Hasenfratz, (Co-chairs), F. Biggs, J. Givens, S. Olson.

**Military Science.** Under Public Law 88-647, Army Reserve Officers' Training Corps (AROTC) offers courses to prepare interested and qualified students for an officer commission; other students not interested in a commission may take the first two years of courses. Successful completion of the program can qualify the student for a commission in the United States Army, Army Reserve, or Army National Guard. AROTC furnishes uniforms, most textbooks, and other related equipment at no expense to the student. The program consists of the basic and the advanced courses. There is no military obligation in the basic course. Students desiring to take the basic course need only to register during the normal registration period but is generally restricted to freshman and sophomore students. Veterans (to include current members of the National Guard or Army Reserve) should consult with the Professor of Military Science (PMS) for possible waiver of the basic course.

A two-year program is available by special application and consent of the PMS during the sophomore year. Qualified students attend a paid, four-week summer camp after the sophomore year instead of the basic course, making them eligible to participate in the last two years of AROTC. The advanced course covers the junior and senior years and includes four three credit courses that meet for one

two hour period per week, plus a leadership lab immediately following class. This is also available to graduate students but they must coordinate with PMS.

Advanced course students attend a four-week summer camp after the junior year. Participation in the advanced course requires a military obligation. Entry into the advanced course is subject to the approval of the PMS. All contracted advanced course cadets receive a subsistence allowance of \$400-\$450 per month.

Scholarships are available to qualified students. Criteria considered include academic performance, major, leadership experience and potential, and physical fitness as evaluated through a board scholarship interview.

Interested students should visit the AROTC office or call (860) 486-6081/4538. Information can also be found at: [www.armyrotc.uconn.edu](http://www.armyrotc.uconn.edu)

**Native American Studies.** The University offers interdisciplinary curricula in topics pertaining to Native American cultures of the present and past. Native American studies is an area of concentration within the Individualized Major program. The description of a minor in Native American Studies is listed in the "Minors" section of this *Catalog*. For further information contact Robert Bee or Kevin McBride, or write to Native American Studies at Unit 2158.

**Puerto Rican and Latino Studies.** The Institute for Puerto Rican and Latino Studies has a flexible interdisciplinary research and teaching program devoted to the comparative, critical analysis of ethnicity and the quest for knowledge about Puerto Ricans on the island and the mainland, as well as about Mexican Americans, and other peoples of Latin American descent in the United States. Although the primary focus of the program is upon the majority segments of the Latino population who, like Puerto Ricans and Mexican Americans, are U.S. citizens, attention is also given to that segment which due to recent immigration or other reasons has not met the formal requirements for U.S. citizenship.

The Institute's Program prepares students to employ critical learning in their private lives, in their public roles as citizens, and as members of the labor force, and enhances their ability to work with and for peoples of Puerto Rican or Latin American descent to promote the development of fairness and equity in public policy as well as multicultural diversity in state, regional, and national life. Puerto Rican and Latino Studies promotes critical, comparative, interdisciplinary thinking and thus facilitates a wider variety of professional or other career choices for students. Students wishing to specialize in Puerto Rican/Latino Studies may take 12 credits from the following courses: PRLS 295, 298, 241

Please note that PRLS 295 and 298 may be repeated for credit. Additional courses will become available so it is necessary to check with the Institute's office to verify current course offerings.

For further information about Puerto Rican and Latino Studies, contact the Institute for Puerto Rican and Latino Studies, Beach Hall, Room 413, (860) 486-3997.