The College of Arts and Science represents a range of academic disciplines and contributes to the general and professional education of all undergraduate students at the University.

Students enrolled in the College of Arts and Science may choose among a number of degree programs and options designed to permit undergraduates flexibility in the pursuit of their educational goals, within guidelines or requirements established by the faculty. These formal requirements ensure that all students in the college complete courses representative of each of the major disciplinary groupings in the College: Arts and Humanities, Culture and Institutions Through Time, Behavioral and Social Sciences, and Natural Sciences and Mathematics.

The intent of these requirements is to provide students acquaintance with, and appreciation of, the materials and methodologies of each area and, ideally, to foster an awareness that the works of an artist, historian, novelist, sociologist, and physicist may all be equally valid representations of reality. In the process, students should develop a heightened understanding of all aspects of human environment, intellectual curiosity, respect for fact, perception of the complexity of truth, skill in reasoning, and concern for integrity and logical consistency and should acquire perceptions, skills, and attitudes that will assist them in achieving a full and satisfying life as contributing members of society.

In addition to the requirements listed for the various degrees, students must fulfill the general University requirements for baccalaureate degrees listed in the all-campus Academic Regulations section of this catalog.

**ADVISEMENT**

Students who have declared majors will be assigned an advisor who is a faculty member in the appropriate department. Undeclared students are assigned a member of the professional staff of the College of Arts and Science Advisement Center located at 102 Elliott Hall. All freshman students who have earned less than 28 credit hours are required to meet with their advisors during preregistration for the spring and fall semesters. All other students are strongly encouraged to meet regularly with their academic advisors.

Preprofessional advisement committees are available to advise students who plan to study dentistry, law, medicine, social work, or veterinary medicine. Dean's Office personnel will be glad to direct students to appropriate faculty members.
GENERAL DEGREE REQUIREMENTS INFORMATION

Pass/Fail Grade Option. Courses to fulfill degree requirements may not be taken pass/fail unless they are offered only on a pass/fail basis. Students may elect to take one course per semester pass/fail. A total of no more than 24 credits may be taken pass/fail for a Bachelor's degree and no more than 12 credits for an Associate's degree.

Physical Education. A maximum of two credits of HPER 120 may be counted toward the required minimum credits of all degrees in the college.

Duplicate Credits. Credits may be counted only once toward a degree. Courses repeated to improve a passing grade may not be counted a second time toward the minimum total credit hours required. Certain courses offered in a sequence will not be counted toward a degree if taken in reverse order of difficulty, e.g., a French 105 course would not be considered if taken after French 107; similarly, a Math 115 course would not be acceptable if taken after a Math 221 course.

Certain other courses have sufficient overlap of content, although taught at different degrees of difficulty, that credit would not be offered for both courses regardless of the order taken. For instance, credit will be offered only once for the following pairs of courses: MATH 221 and MATH 241, MATH 222 and MATH 242

MAJOR OPTIONS

Single Major. A departmental major consists of at least 30 credits with the specified and elective courses determined by the individual department. A grade of C- is normally required in all major courses.

Several departments, e.g., English and history, have a number of internal options or specializations. To round out the departmental major, students may be required to take a designated number of credits of related work determined in consultation with a faculty advisor.

The faculty of the college have ruled that for the Bachelor of Arts degree, a maximum of 45 credits with the same departmental prefix may be applied to the total number of credits required for the degree. A cross-listed course will be considered a part of the 45 credit total, regardless of which prefix a student used to register for the course.

Students who choose a single major will normally have a number of "free elective" credits. Considerable thought should be given to the best use of these "elective" credits.

Double Major. This involves fulfilling the major requirements of two Bachelor of Arts or two Bachelor of Science majors. The advantage of a double major is that the student is able to develop and demonstrate strength in each area covered in the undergraduate program. Admission to double major status requires the approval of both departments and the dean(s) of the college(s). The minimum grade necessary in all courses required for the double major is the same as that needed for a single major in that degree program.

Interdepartmental Major. Students whose goals and interests heavily involve materials from two departments but do not extend to all aspects of each subject area may work out and submit for the approval of both departments and the dean of the college an interdepartmental proposal. More detailed instructions on the Interdepartmental Major are available in the Advisement Center and Dean's Office, but basically this major involves a minimum of 30 credits from each department with another nine credits that may be distributed in a number of ways. Examples of departments frequently combined in such programs are Communication and English or Political Science and Economics. With the approval of the other college or department, one area of the interdepartmental major may be from outside the College of Arts and Science.

A minimum grade of C- is normally required in all courses constituting the 21 credits of each area, and a C average is necessary for all the 51 credits in the interdepartmental major.

Area Study. Opportunity is provided for students interested in pursuing a broader field of study such as Comparative Literature, International Relations or Latin American Studies. Students majoring in International Relations would be required to take 51 credits distributed among appropriate departments. Thirty of the 51 credits must be earned with at least a C- grade, and a C average is required for the total of the 51 credits.

Minors. In addition to the major, students may also elect to complete one or two minor programs. Departments offering a minor set their own requirements, but these always include at least 15 credits of course work. A minimum grade of C- is normally required in all courses for a minor. (See the list of minors in the front of this catalog.)

BACHELOR OF ARTS

This degree, offered by all departments of the College of Arts and Science, is awarded to those students who follow a broad course of study and is designed to provide a liberal education. For this degree, students must complete a minimum of 124 credits, composed of requirements for general education, required courses in a major, and elective courses.

CORE CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-) 3

ENGL 110 will be taken by all students as freshmen, except by students who have otherwise demonstrated the skills taught in that course. A score of 650 on the College Board Achievement Test in English Composition will be a satisfactory demonstration of basic writing skills. ENGL 110 must be completed by the time a student has earned 60 credits. Students who transfer into the College of Arts and Science with 45 credits or more must complete this requirement within two semesters.

MULTICULTURAL COURSE

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see page 20).

BACHELOR OF ARTS

COLLEGE SKILL REQUIREMENTS

Writing: (minimum grade C-)

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 59.)

Mathematics:

MATH 114 or MATH 170 College Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics) 3

MATH 115 or MATH 171 Pre-Calculus (designed for students who intend to continue the study of mathematics) 3

Successful completion of any mathematics course at or above the 200-level except MATH 251 or MATH 252.

Successful performance on a proficiency test in mathematics administered by the Department of Mathematical Sciences through the College of Arts and Science Advisement Center.

The math requirements must be completed by the time a student has earned 60 credits. Students who transfer into the College of Arts and Science with 45 credits or more must complete this requirement within two semesters.

Foreign Language:

Completion of the intermediate-level course (107 or 112 or 214) in a given foreign language (ancient or modern). Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination.
ASSOCIATE DEGREES • COLLEGE OF ARTS AND SCIENCE

COLLEGE BREADTH REQUIREMENTS
The only exception for total number of credits in breadth requirements for a Bachelor of Arts degree is for the Bachelor of Arts in Mathematics Education. See page 98 for these requirements.

GROUP A
Analysis and appreciation of the creative arts and humanities. Twelve credits of courses representing at least two departments or appropriate instructional units.

GROUP B
The study of culture and institutions over time. Twelve credits of courses representing at least two departments or appropriate instructional units.

GROUP C
Empirically based study of human beings and their environment. Twelve credits of courses representing at least two departments or appropriate instructional units.

GROUP D
The study of natural phenomena through experiment or analysis. Thirteen credits of courses representing at least two departments or appropriate instructional units and including a minimum of one course with an associated laboratory.

A course may be applied toward more than one requirement (e.g., breadth and major requirements), but the credits are counted only once toward the total credits for graduation. If all but one course in a group has been taken in one department or program, a course cross-listed with that program will not satisfy the distribution requirement. For a complete list of the courses which fulfill breadth requirements, see pages 60-64.

BACHELOR OF SCIENCE
Students whose goals indicate a high level of concentration or specialization may elect to fulfill requirements for the Bachelor of Science degree. Similar degrees are the Bachelor of Fine Arts, with a heavy concentration on studio work, and the Bachelor of Music with its own areas of specialization. Curricular details for all of these degree programs can be found in the sections devoted to the individual departments.

BACHELOR OF ARTS IN LIBERAL STUDIES
An option that offers a great deal of flexibility is the Bachelor of Arts in Liberal Studies (BALS). The degree is designed for students who have need and justification for developing their own undergraduate major program within the 124-credit minimum.

This degree differs from the regular Bachelor of Arts degree in that it requires 60 credits at the 300-level or higher. The most significant difference from the more conventional degree, however, is that, instead of a major, students pursue a sequence of courses of their choice that are consistent with their stated educational goals.

Admission into Bachelor of Arts in Liberal Studies is determined by the College Faculty Senate Committee on Special Academic Programs which reviews student proposals and approves them or makes suggestions on improving or strengthening them. To be eligible to apply to the program, a student must have a cumulative grade index of 2.25 and must have completed no more than 75 credit hours at the time of the application. The committee looks for proposals that are cohesive and realistic, designed to afford the student knowledge in some broad, interdisciplinary field or focused more narrowly and in greater depth on one theme and, in general, involve course combinations that would not be feasible within one of the other degree options. A minimum of 39 credit hours must be related to the main theme of the BALS project and a minimum grade of C- must be earned in these core courses.

Advisement and planning are essential in formulating such a proposal. Students are urged to seek advice from faculty members and the Dean’s Office as they work on drawing up their programs. The screening committee will expect the applications to carry the signature of at least two faculty members including the candidate’s advisor. Proposals should be submitted to the Dean’s Office by October 15 or by March 15.

ASSOCIATE DEGREES
The nonterminal degrees of Associate in Arts (A.A.) and Associate in Science (A.S.) may be awarded upon application before completion of a prescribed curriculum. Information regarding admission requirements and eligibility for the associate degree programs may be found in the Undergraduate Admissions section of this catalog.

ASSOCIATE DEGREES from the College of Arts and Science. The non-terminal degrees of Associate in Arts and Associate in Science may be awarded upon application before completion of 75 earned credit hours. Specific requirements follow:

ASSOCIATE IN ARTS REQUIREMENTS
If any of the course requirements are satisfied through proficiency tests or exams, elective credits must be substituted to make up 60 hours. Courses taken to fulfill specific group, math, or language proficiency requirements must be taken for a regular grade, not pass/fail.

CURRICULUM

UNIVERSITY REQUIREMENTS

Writing
ENGL 110 (minimum grade C-) or Exemption or Multicultural Course (see p 20) 3

SKILL REQUIREMENTS

Mathematics
MATH 114 or MATH 115 3

or Successful completion of any mathematics course above the 100-level (except MATH 251 and MATH 252) 3-4

or Proficiency Test 0

Foreign Language
Elementary Level or Proficiency Test 4 0

BREADTH REQUIREMENTS
Courses in each of the groups A-D must be taken in at least two departments. If all but one course in a group has been taken in one department or program, a course cross-listed with that department or program will not satisfy the distribution requirement.

Group A Creative Arts and Humanities 9

Group B Culture and Institutions through Time 9

Group C Humans and Their Environment 9

Group D Natural Phenomena 10

At least one course in Group D must be a laboratory science.

ELECTIVES

Elective Courses
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. Students may opt to take one free elective course per semester pass/fail, but the total number of credits taken on a pass/fail basis may not exceed 12, excluding courses that are graded pass/fail only. Courses numbered below 100-level do not count toward a degree.

CREDITS TO TOTAL A MINIMUM OF 60
ASSOCIATE IN SCIENCE REQUIREMENTS

If any of the course requirements are satisfied through proficiency tests or exams, elective credits must be substituted to make up 60 hours. Courses taken to fulfill specific group, math, or language proficiency requirements must be taken for a regular grade, not pass/fail.

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

Writing
ENGL 110 (minimum grade C) or Exemption
Multicultural Course (see p. 20)

SKILL REQUIREMENTS

Mathematics
MATH 221-222 or MATH 241-242

Foreign Language
Required if there is a language requirement for the corresponding Bachelor of Science degree
Elementary Level
Proficiency Test

BREADTH REQUIREMENTS

Courses in each of the groups AD must be taken in at least two departments. If all but one course in a group has been taken in one department or program, a course cross-listed with that department or program will not satisfy the distribution requirement
Group A Creative Arts and Humanities
Group B Culture and Institutions through Time
Group C Humans and Their Environment
Group D Natural Phenomena
At least one course in Group D must be a laboratory science

ELECTIVES

Elective Courses
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. Students may opt to take one free elective course per semester pass/fail, but the total number of credits taken on a pass/fail basis may not exceed 12, excluding courses that are graded pass/fail only. Courses numbered below 100-level do not count toward a degree

CREDITS TO TOTAL A MINIMUM OF 60

Academic Advisement is available in the College of Arts and Science Advisement Center, 102 Elliott Hall.

DEAN'S SCHOLAR PROGRAM

Each year some undergraduate colleges consider upon application a number of highly motivated students who have clear educational goals and the ability to achieve those goals. These students may be appointed Dean's Scholars. These students are freed of all college general education requirements so that they can build their entire program with faculty advisors. They are generally selected after they have finished three semesters at the University. Additional information is available from the Dean's Office.

LIBERAL ARTS/ENGINEERING

These five-year programs combine work in liberal arts and engineering and lead to the simultaneous awarding of a bachelor's degree in Arts and Science and a bachelor's degree in the appropriate engineering field. For complete details on these programs, see the Arts and Science-Engineering Curricula section.

TEACHER EDUCATION PROGRAMS

The College of Arts and Science offers teacher education programs in twenty-three areas for students who wish to prepare themselves to be certified teachers in Delaware or in twenty-seven other states and the overseas dependent schools. For secondary certification (high school, junior high school, middle school), programs are offered in biology, chemistry, earth sciences, English, foreign languages (Classics, French, German, Italian, Latin, Russian, Spanish), mathematics, physics, and social studies (anthropology, economics, geography, history, political science, psychology, and sociology). For K-12 certification, teacher education programs are offered in music (instrumental, keyboard, voice).

Each degree program in teacher education requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The appropriate teacher education program advisor (see list on p. 127) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

See Teacher Education Programs in the College of Education section of this catalog.

PREMEDICINE AND PREDENTISTRY

Preparation for admission to professional schools in medicine, dentistry, and related fields must include specific course work in biology, chemistry, physics and mathematics. Although many preprofessional students major in biology or chemistry, because these disciplines include the science training required, nonscience majors are acceptable and, in fact, encouraged by many professional schools.

Preprofessional students usually begin their career-related course work in the first semester of the freshman year in order to complete the relevant courses before taking professional aptitude tests as juniors. Early academic advisement is essential to ensure that the preprofessional curriculum requirements are met. The Health Sciences Advisory and Evaluation Committee (Room 117A, Wolf Hall) coordinates advisory services for all students preparing for admission to health-related professional schools. Call 831-2282 for information.

MEDICAL SCHOLARS PROGRAM

The Medical Scholars Program has been developed by the University of Delaware and Jefferson Medical College in Philadelphia to educate men and women to meet society's changing health care demands. This unique approach to medical studies unifies college, medical school, and residency years by integrating liberal arts, science, and professional studies across both institutions. Utilizing faculty and courses at the University of Delaware and Jefferson Medical College, the curriculum includes traditional studies in the life and health sciences, as well as courses in the humanities, ethics, social sciences, economics, political science, and health policy. Group discussion, problem-based instruction, hands-on science, computer and video disc technology are part of the program. Under this program, students receive a Bachelor of Arts in Liberal Studies degree and conditional acceptance to Jefferson Medical College as early as their sophomore year at the University of Delaware. For information, contact Professor Paul Durbin at 831-8202.

FIELD STUDIES OPTION

Many students may benefit from a semester devoted to a carefully planned field studies program away from the campus. Opportunity is available under this option to develop an academic program involving field research and data collection or involving associated work in
a government organization or private company. Such an academic option must be developed in detail with an academic advisor. More information is available from the Dean's office, to which proposals should be submitted by October 15 or by March 15.

**COURSES APPROVED FOR SECOND WRITING REQUIREMENT**

**NOTE:** Only the sections designated in the Registration Booklet as satisfying the Arts and Science Second Writing Course apply. Only a limited number of courses, when transferred from another institution, will satisfy the second writing requirement. Please contact the Arts and Science Advisement Center and Dean's Office for further information.

**Anthropology (ANTH)**
- ANTH 486 Tutorial in Social and Cultural Anthropology
- ANTH 487 Tutorial in Archaeology
- ANTH 488 Tutorial in Physical Anthropology

**Art History (ARTH)**
- ARTH 213 Art of the Northern Renaissance
- ARTH 250 Rulers' Images: Augustus to Washington
- ARTH 301 Research and Methodology in Art History
- ARTH 302 Prints and Society
- ARTH 310 The Role of the Artist in Society
- ARTH 402 Undergraduate Seminar: History of Art
- ARTH 403 Seminar in Greek and Roman Art
- ARTH 406 Seminar in Medieval Art
- ARTH 408 Seminar in Northern Renaissance Art
- ARTH 413 Seminar in Italian Renaissance Art
- ARTH 417 Seminar in Northern Baroque Art
- ARTH 423 Seminar in Twentieth Century Art
- ARTH 429 Seminar in Modern Architecture
- ARTH 431 Seminar in American Architecture
- ARTH 435 Seminar in American Art

**Arts and Science (ARSC)**
- ARSC 316 Honors: Peer Tutoring/Advanced Composition (cross-listed with ENGL 316)

**Biology (BISC)**
- BISC 330 Biology of Vision
- BISC 450 Proseminar in Environmental Science (cross-listed with GEOG 450 and GEOG 450)
- BISC 499 Topics in Biology (cross-listed with BISC 498)

**Black American Studies (BAMS)**
- BAMS 415 Race, Class and Gender (cross-listed with SOCI 415 and WOMS 415)
- BAMS 432 Psychological Perspectives on the Black American (cross-listed with PSYC 416)

**Center for Science and Culture (CSCC)**
- CSCC 355 Computers, Ethics and Society (cross-listed with SOCI 355)
- CSCC 368 Literature and Science (cross-listed with ENGL 368)
- CSCC 385 History of Biological Ideas (cross-listed with HIST 385)
- CSCC 411 Seminar in American History (cross-listed with HIST 411)
- CSCC 444 Medical Ethics (cross-listed with PHL 444)
- CSCC 499 Topics in Biology (cross-listed with BISC 498)

**Chemistry (CHEM)**
- CHEM 610 History of Chemistry

**Communication (COMM)**
- COMM 311 Communication Techniques
- COMM 438 Speech and Language in Human Behavior
- COMM 452 Communication, Power and Values
- COMM 485 Analysis of Verbal Communication

**Comparative Literature (CMIT)**
- CMIT 311 Twentieth-Century Literature I (cross-listed with FLIT 311)
- CMIT 312 Twentieth-Century Literature II (cross-listed with FLIT 312)
- CMIT 341 Theatre/Drama: Classic/Medieval (cross-listed with THEA 341)
- CMIT 342 Theatre/Drama: Renaissance to 1700 (cross-listed with THEA 342)
- CMIT 343 Theatre/Drama: 1700 to 1900 (cross-listed with THEA 343)
- CMIT 344 Theatre/Drama: 1900 to Present (cross-listed with THEA 344)
- CMIT 480 Seminar (cross-listed with ENGL 480, and WOMS 480)

**Criminal Justice (CRJU)**
- CRJU 428 Corporate Crime (cross-listed with SOCI 428)
- CRJU 456 Lawyers and Society (cross-listed with SOCI 456)
- CRJU 460 Criminal Justice Policy

**English (ENGL)**
- ENGL 200 Approaches to Literature
- ENGL 301 Expository Writing
- ENGL 302 Advanced Composition
- ENGL 307 News Writing and Editing
- ENGL 309 Feature and Magazine Writing
- ENGL 312 Written Communications in Business
- ENGL 316 Honors: Peer Tutoring/Advanced Composition (cross-listed with ARSC 316)
- ENGL 368 Literature and Science (cross-listed with CSCC 368)
- ENGL 409 Topics in Journalism
- ENGL 410 Technical Writing
- ENGL 415 Writing in the Professions
- ENGL 480 Seminar (cross-listed with CMIT 480 and WOMS 480)

**Foreign Languages and Literatures (FLIT)**
- FLIT 311 Twentieth-Century Literature I (cross-listed with CMIT 311)
- FLIT 312 Twentieth-Century Literature II (cross-listed with CMIT 312)

**Geography (GEOG)**
- GEOG 346 Urban Cultural Geography
- GEOG 445 Method and Theory in Geography
- GEOG 450 Prosminar in Environmental Science (cross-listed with BISC 450 and GEOG 450)

**Geology (GEOG)**
- GEOG 450 Prosminar in Environmental Science (cross-listed with BISC 450 and GEOG 450)

**History (HIST)**
- HIST 130 Survey of the History of the Near East from the Rise of Islam to 1500 CE
- HIST 131 History of the Islamic Near East: 1500 to the Present
- HIST 250 Roots of Contemporary Culture
- HIST 300 Women in American History (cross-listed with WOMS 300)
- HIST 301 The Worker in American Life
- HIST 302 The World in Our Time (cross-listed with WOMS 302)
- HIST 303 American Intellectual History
- HIST 304 American Intellectual History
- HIST 307 The U.S. in the Early National Period
- HIST 308 The U.S. in the Antebellum Period
- HIST 309 U.S. Business and Political Economy
- HIST 313 Early Twentieth-Century America
- HIST 314 Twentieth-Century America
- HIST 318 Colonial America
- HIST 319 Revolutionary America
- HIST 323 The Old South
- HIST 328 American Industrial Society; 1815 to Present
- HIST 330 Peasants and Revolution in Africa
- HIST 334 History of Mexico
- HIST 335 History of Colonial Latin America
- HIST 341 Ancient Rome
- HIST 344 Renaissance Europe
- HIST 345 Europe in the Reformation Era; 1517 to 1648
- HIST 346 Age of Louis XIV
- HIST 347 The French Revolution and Napoleonic
- HIST 352 Contemporary European Society
- HIST 355 Early Modern Intellectual History
- HIST 356 Modern European Intellectual History
- HIST 359 Soviet Russia; 1917 to 1990
- HIST 361 European Business History; 1850 to Present
- HIST 363 Modern Germany; 1770 to 1919
- HIST 364 Germany in 20th Century; 1914 to Present
- HIST 368 Modern China; 1600-1920s
- HIST 369 China Since 1900
- HIST 373 Modern Ireland; 1534 to Present
- HIST 380 History of the Arab-Israeli Conflict
- HIST 385 History of Biological Ideas (cross-listed with CSCC 385)
- HIST 392 History of Modern Japan
- HIST 397 Radicalism and Revolution: Islamic Movements in the Middle East
- HIST 378 Nationalism in the Modern Middle East
- HIST 390 History of South Africa
- HIST 409 Varieties of Modern Feminism (cross-listed with WOMS 409)
- HIST 411 Seminar in American History (cross-listed with CSCC 411 and WOMS 411)
- HIST 430 Twentieth-Century Latin American Revolutions
- HIST 440 Africa Under Colonial Rule
- HIST 459 United States Urban History
- HIST 471 Studies in Medieval History (cross-listed with WOMS 472)
- HIST 473 Studies in Early Modern European History (cross-listed with WOMS 473)
- HIST 474 Studies in English History
ANTH 239 Arts and Crafts of Native North America
ANTH 251 Introduction to the Ethnic Arts
ANTH 338 Arts and Crafts of Native South America
ANTH 360 Humanities Colloquium

Art (ART)
ART 315 Issues in Contemporary Art

Art History (ARTH)
ARTH 150 Monuments and Methods in the History of Art
ARTH 151 Myth, Religion, and Art
ARTH 152 Design and Expression in the Visual Arts
ARTH 161 Art in East and West
ARTH 162 History of Architecture

Center for Science and Culture (CSCC)
CSCC 247 Ethical Issues in Health Care (cross-listed with PHIL 244)
CSCC 246 Philosophical Perspectives of Medicine (cross-listed with PHIL 246)
CSCC 368 Literature and Science (cross-listed with ENGL 368)
CSCC 369 Literature and Medicine (cross-listed with ENGL 369)
CSCC 444 Medical Ethics (cross-listed with PHIL 444)

Comparative Literature (CMLT)
CMLT 202 Biblical and Classical Literature
   (cross-listed with ENGL 202 and FLIT 202)
CMLT 217 Introduction to Film (cross-listed with ENGL 217)
CMLT 218 Introduction to Drama
   (cross-listed with ENGL 208 and WOMS 208)
CMLT 219 Introduction to the Novel
   (cross-listed with ENGL 209 and WOMS 209)
CMLT 314 Introduction to Folklore and Folklife
   (cross-listed with ENGL 314)
CMLT 316 Classical Mythology (cross-listed with FLIT 316)
CMLT 320 Varying Authors and Genres
   (cross-listed with FLIT 320 and WOMS 320)
CMLT 322 Topics: Classical Literature in Translation
   (cross-listed with FLIT 322)

English (ENGL)
ENGL 200 Approaches to Literature
ENGL 202 Biblical and Classical Literature
   (cross-listed with CMLT 202 and FLIT 202)
ENGL 204 American Literature
ENGL 208 Introduction to Poetry
ENGL 209 Introduction to the Novel
   (cross-listed with CMLT 219 and WOMS 209)
ENGL 210 Short Story
ENGL 217 Introduction to Film
ENGL 314 Introduction to Folklore and Folklife
ENGL 315 Ballad and Folksong
ENGL 320 The Bible as Literature
ENGL 324 Shakespeare
ENGL 368 Literature and Science (cross-listed with CSCC 368)
ENGL 369 Literature and Medicine (cross-listed with CSCC 369)
ENGL 380 Women Writers (cross-listed with JWST 380 and WOMS 380)

Foreign Languages and Literatures (FLIT)
FLIT 202 Biblical and Classical Literature
   (cross-listed with CMLT 202 and ENGL 202)
FLIT 316 Classical Mythology (cross-listed with CMLT 316)
FLIT 320 Varying Authors and Genres
   (cross-listed with CMLT 320 and WOMS 320)
FLIT 322 Topics: Classical Literature in Translation
FLIT 324 Topics: French Literature in Translation
FLIT 325 Topics: German Literature in Translation
FLIT 326 Topics: Hispanic Literature in Translation
FLIT 327 Topics: Russian Literature in Translation
FLIT 328 Topics: Japanese Literature in Translation
FLIT 329 Topics: Italian Literature in Translation

Geography (GEOG)
GEOG 203 Introduction to Cultural Geography
GEOG 345 Cultural Geography
GEOG 346 Urban Cultural Geography

German (GRMN)
GRMN 211 German Reading and Composition: Short Fiction
   (to be taught in German)

History (HIST)
HIST 216 Introduction to Material Culture Studies
   (cross-listed with ANTH 216)

Jewish Studies (JWST)
JWST 380 Women Writers (cross-listed with ENGL 380 and WOMS 380)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cross-listed Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 209</td>
<td>Early Medieval Art 200-1000 A.D.</td>
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<tr>
<td>ARTH 210</td>
<td>Later Medieval Art 1000-1400 A.D.</td>
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</tr>
<tr>
<td>ARTH 217</td>
<td>Early Renaissance Art</td>
<td></td>
</tr>
<tr>
<td>ARTH 218</td>
<td>High Renaissance and Mannerist Art</td>
<td></td>
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<tr>
<td>ARTH 220</td>
<td>Italian Renaissance Architecture</td>
<td></td>
</tr>
<tr>
<td>ARTH 222</td>
<td>Baroque Art</td>
<td></td>
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<tr>
<td>ARTH 223</td>
<td>Baroque and Rococo Architecture and Urbanism</td>
<td></td>
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<tr>
<td>ARTH 225</td>
<td>Eighteenth Century Art</td>
<td></td>
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<tr>
<td>ARTH 227</td>
<td>Modern Art I</td>
<td></td>
</tr>
<tr>
<td>ARTH 228</td>
<td>Modern Art II</td>
<td></td>
</tr>
<tr>
<td>ARTH 230</td>
<td>American Art 1607-1865</td>
<td></td>
</tr>
<tr>
<td>ARTH 231</td>
<td>American Art: 1865-Present</td>
<td></td>
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<tr>
<td>ARTH 233</td>
<td>Art of China</td>
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<td>ARTH 234</td>
<td>Art of Japan</td>
<td></td>
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<tr>
<td>ARTH 235</td>
<td>Art of India</td>
<td></td>
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<tr>
<td>ARTH 236</td>
<td>The Arts of Islam</td>
<td></td>
</tr>
<tr>
<td>ARTH 250</td>
<td>Rulers' Images from Augustus to George Washington</td>
<td></td>
</tr>
<tr>
<td>ARTH 302</td>
<td>Prints and Society</td>
<td></td>
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<tr>
<td>ARTH 304</td>
<td>Northern Baroque Art</td>
<td></td>
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<td>ARTH 305</td>
<td>Italian Baroque: Metaphor and Marvel</td>
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<td>ARTH 308</td>
<td>Modern Architecture I: 1750-1900</td>
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<td>ARTH 309</td>
<td>Modern Architecture II: 20th Century</td>
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<td>ARTH 310</td>
<td>Role of the Artist in Society</td>
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<tr>
<td>ARTH 318</td>
<td>History of Photography</td>
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### Black American Studies (BAMS)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BAMS 134</td>
<td>History of Africa (cross-listed with HIST 134)</td>
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<tr>
<td>BAMS 304</td>
<td>History of Black America to the Civil War (cross-listed with HIST 325)</td>
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<td>BAMS 306</td>
<td>History of Black America Since the Civil War (cross-listed with HIST 326)</td>
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<tr>
<td>BAMS 313</td>
<td>African American Literature I (cross-listed with ENGL 344)</td>
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### Center for Science and Culture (CSCC)

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<tr>
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<tr>
<td>CSCC 382</td>
<td>History of Western Medicine (cross-listed with HIST 382)</td>
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### Comparative Literature (CMLT)

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<tr>
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<td>Great Writers of the Western World I (cross-listed with ENGL 211)</td>
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<tr>
<td>CMIT 208</td>
<td>Great Writers of the Western World II (cross-listed with ENGL 212)</td>
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<tr>
<td>CMIT 317</td>
<td>Film History (cross-listed with ENGL 317)</td>
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<tr>
<td>CMIT 321</td>
<td>Medieval Literature and Culture (cross-listed with CMIT 321)</td>
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<tr>
<td>CMIT 330</td>
<td>Varying Authors, Themes, and Movements (cross-listed with CSCC 330, FLIT 330 and WOMS 330)</td>
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<td>CMIT 341</td>
<td>Theatre/Drama: Classic/Medieval (cross-listed with THEA 341)</td>
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<td>CMIT 342</td>
<td>Theatre/Drama: Renaissance to 1700 (cross-listed with THEA 342)</td>
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<td>CMIT 343</td>
<td>Theatre/Drama: 1700 to 1900 (cross-listed with THEA 343)</td>
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<td>CMIT 344</td>
<td>Theatre/Drama: 1900 to Present (cross-listed with THEA 344)</td>
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### Economics (ECON)

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<tr>
<td>ECON 315</td>
<td>Economic History of Colonial America</td>
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<tr>
<td>ECON 316</td>
<td>Economic History of the U.S</td>
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<td>ECON 318</td>
<td>Economic History of France</td>
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### English (ENGL)

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<td>ENGL 205</td>
<td>British Literature I</td>
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<td>ENGL 206</td>
<td>British Literature II</td>
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<tr>
<td>ENGL 211</td>
<td>Great Writers of the Western World I (cross-listed with CMIT 207)</td>
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<td>ENGL 212</td>
<td>Great Writers of the Western World II (cross-listed with CMIT 208)</td>
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<td>ENGL 317</td>
<td>Film History (cross-listed with CMIT 317)</td>
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<td>ENGL 321</td>
<td>Medieval Literature and Culture (cross-listed with CMIT 321)</td>
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<td>ENGL 340</td>
<td>American Literature to the Civil War</td>
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<td>ENGL 341</td>
<td>American Literature: Civil War to World War II</td>
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<td>ENGL 344</td>
<td>African American Literature I (cross-listed with BAMS 313)</td>
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### Foreign Languages and Literatures (FLIT)

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<td>FLIT 330</td>
<td>Varying Authors, Themes, and Movements (cross-listed with CMIT 330, CSCC 330 and WOMS 330)</td>
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<tr>
<td>FLIT 375</td>
<td>Topics: Russian and Soviet Culture in Translation</td>
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<td>FLIT 380</td>
<td>Topics: Japanese Culture in Translation</td>
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### French (FREN)

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<tr>
<td>FREN 301</td>
<td>Introduction to French Literature: Pose (to be taught in French)</td>
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<td>FREN 302</td>
<td>Introduction to French Literature: Poetry and Theatre (to be taught in French)</td>
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<tr>
<td>FREN 325</td>
<td>French Civilization I (to be taught in French)</td>
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<tr>
<td>FREN 326</td>
<td>French Civilization II (to be taught in French)</td>
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### Geography (GEOG)

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<td>GEOG 225</td>
<td>Historical Geography of the United States</td>
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### German (GRMN)

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<tbody>
<tr>
<td>GRMN 311</td>
<td>Introduction to German Literature (to be taught in German)</td>
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<td>GRMN 312</td>
<td>Introduction to German Literature II (to be taught in German)</td>
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<tr>
<td>GRMN 325</td>
<td>German Civilization and Culture (to be taught in German)</td>
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## History (HIST)

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<th>Course Code</th>
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<tbody>
<tr>
<td>HIST 101</td>
<td>Western Civilization to 1648</td>
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<td>HIST 102</td>
<td>Western Civilization: 1648 to Present</td>
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<tr>
<td>HIST 103</td>
<td>World History to 1648</td>
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<td>HIST 104</td>
<td>World History: 1648 to Present</td>
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<tr>
<td>HIST 130</td>
<td>Islamic Near East: 600-1500</td>
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<td>HIST 131</td>
<td>Islamic Near East: 1500 to Present</td>
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<tr>
<td>HIST 134</td>
<td>History of Africa (cross-listed with BAMS 134)</td>
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<tr>
<td>HIST 135</td>
<td>Introduction to Latin American History</td>
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<tr>
<td>HIST 137</td>
<td>East Asian Civilization: China</td>
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<td>HIST 138</td>
<td>East Asian Civilization: Japan</td>
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<td>HIST 205</td>
<td>United States History</td>
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<td>HIST 210</td>
<td>War and Society</td>
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<td>HIST 220</td>
<td>The American Civil Rights Movement</td>
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<td>HIST 270</td>
<td>History of Modern Asia</td>
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<td>HIST 278</td>
<td>Historic Cultures of the Mid-Atlantic Region (cross-listed with ANTH 278)</td>
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<td>HIST 280</td>
<td>Science and Civilization</td>
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<td>HIST 300</td>
<td>Women in American History (cross-listed with WOMS 300)</td>
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<tr>
<td>HIST 303</td>
<td>American Intellectual History</td>
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<td>HIST 304</td>
<td>American Intellectual History</td>
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<td>HIST 306</td>
<td>History of American Foreign Policy</td>
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<td>HIST 315</td>
<td>Postwar America: The United States Since 1945</td>
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<td>HIST 318</td>
<td>Colonial America</td>
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<td>HIST 319</td>
<td>Revolutionary America</td>
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<tr>
<td>HIST 322</td>
<td>The City in American Culture (cross-listed with ANTH 322)</td>
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<tr>
<td>HIST 325</td>
<td>History of Black America to the Civil War (cross-listed with BAMS 325)</td>
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<td>HIST 326</td>
<td>History of Black America Since the Civil War (cross-listed with BAMS 326)</td>
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<td>HIST 330</td>
<td>Peasants and Revolution in Africa</td>
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<td>HIST 340</td>
<td>Ancient Near East and Greece</td>
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<tr>
<td>HIST 341</td>
<td>Ancient Rome</td>
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<td>HIST 344</td>
<td>Renaissance Europe</td>
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<td>HIST 345</td>
<td>Europe in the Reformation Era: 1517 to 1648</td>
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<tr>
<td>HIST 348</td>
<td>History of Spain: 1479 to Present</td>
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<td>HIST 349</td>
<td>Hispanic Societies: 1492 to Present</td>
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<tr>
<td>HIST 345</td>
<td>Early Modern Intellectual History</td>
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<td>HIST 356</td>
<td>Modern European Intellectual History</td>
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<td>HIST 359</td>
<td>Soviet Russia: 1917 to 1990</td>
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<td>HIST 363</td>
<td>Modern Germany: 1770 to 1919</td>
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<td>HIST 364</td>
<td>Germany in 20th Century: 1914 to Present</td>
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<tr>
<td>HIST 368</td>
<td>Modern China: 1600-1920s</td>
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<td>HIST 369</td>
<td>China Since 1900</td>
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<td>HIST 373</td>
<td>Modern Ireland: 1534-Present</td>
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<td>HIST 374</td>
<td>History of England to 1715</td>
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<td>HIST 375</td>
<td>History of England: 1715 to Present</td>
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<tr>
<td>HIST 377</td>
<td>Radicalism and Revolution: Islamic Movements in the Modern Middle East</td>
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<td>HIST 378</td>
<td>Nationalism in the Modern Middle East</td>
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<tr>
<td>HIST 380</td>
<td>History of the Arab-Israeli Conflict</td>
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<tr>
<td>HIST 382</td>
<td>History of Western Medicine (cross-listed with CSCC 382)</td>
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<tr>
<td>HIST 383</td>
<td>History of Science and Medicine I</td>
</tr>
<tr>
<td>HIST 384</td>
<td>History of Science and Medicine II</td>
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<td>HIST 387</td>
<td>Technology in Western Civilization I</td>
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<tr>
<td>HIST 388</td>
<td>Technology in Western Civilization II</td>
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<tr>
<td>HIST 392</td>
<td>History of Modern Japan</td>
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<td>HIST 393</td>
<td>History of Modern Vietnam</td>
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<td>HIST 397</td>
<td>History of South Africa</td>
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<td>HIST 474</td>
<td>Studies in English History</td>
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## Italian (ITAL)

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<tbody>
<tr>
<td>ITAL 310</td>
<td>Survey of Italian Literature (to be taught in Italian)</td>
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<tr>
<td>ITAL 311</td>
<td>Survey of Italian Literature (to be taught in Italian)</td>
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<tr>
<td>ITAL 325</td>
<td>Italian Civilization and Culture</td>
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## Music (MUSC)

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<tbody>
<tr>
<td>MUSC 107</td>
<td>History of Rock</td>
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<tr>
<td>MUSC 205</td>
<td>Music of the Non-Western World</td>
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<tr>
<td>MUSC 206</td>
<td>Music of China, Korea and Japan</td>
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<tr>
<td>MUSC 207</td>
<td>History of Jazz</td>
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<tr>
<td>MUSC 311</td>
<td>Music History: to 1600</td>
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<td>MUSC 312</td>
<td>Music History: 1600 through 1827</td>
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<td>MUSC 313</td>
<td>Music History: 1825 to the Present</td>
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<tr>
<td>MUSC 345</td>
<td>History of Theatre: American Musical Theatre (cross-listed with THEA 345)</td>
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## Philosophy (PHIL)

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<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
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<td>PHIL 302</td>
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<td>PHIL 303</td>
<td>Modern Philosophy</td>
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<td>PHIL 309</td>
<td>Indian Religion and Philosophy</td>
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<td>PHIL 310</td>
<td>Chinese Religion and Philosophy</td>
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## Political Science (POSC)

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<tr>
<td>POSC 311</td>
<td>Politics of Developing Nations</td>
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<td>POSC 387</td>
<td>American Political Thought</td>
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## Russian (RUSS)

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<tr>
<td>RUSS 310</td>
<td>Introduction to Russian Literature I (to be taught in Russian)</td>
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<tr>
<td>RUSS 312</td>
<td>Introduction to Russian Literature II (to be taught in Russian)</td>
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<tr>
<td>RUSS 325</td>
<td>Russian Civilization and Culture (to be taught in Russian)</td>
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## Spanish (SPAN)

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<tr>
<td>SPAN 301</td>
<td>Survey of Spanish Literature (to be taught in Spanish)</td>
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<td>SPAN 302</td>
<td>Survey of Spanish Literature (to be taught in Spanish)</td>
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<td>SPAN 303</td>
<td>Survey of Spanish-American Literature (to be taught in Spanish)</td>
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<td>SPAN 304</td>
<td>Survey of Spanish-American Literature (to be taught in Spanish)</td>
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<td>Spanish Civilization and Culture (to be taught in Spanish)</td>
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## Theatre (THEA)

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<tr>
<td>THEA 341</td>
<td>Theatre/Drama: Classic/Medieval (cross-listed with MUSC 341)</td>
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<td>THEA 342</td>
<td>Theatre/Drama: Renaissance to 1700 (cross-listed with MUSC 342)</td>
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<td>Theatre/Drama: 1700 to 1900 (cross-listed with MUSC 343)</td>
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<td>Theatre/Drama: 1900 to Present (cross-listed with MUSC 344)</td>
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<td>THEA 345</td>
<td>History of Theatre: American Musical Theatre (cross-listed with MUSC 345)</td>
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## Women's Studies (WOMS)

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<tr>
<td>WOMS 300</td>
<td>Women in American History (cross-listed with HIST 300)</td>
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<tr>
<td>WOMS 330</td>
<td>Varying Authors, Themes, and Movements (cross-listed with MUSC 330, CSCC 330 and FLL 330)</td>
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## Anthropology (ANTH)

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<tr>
<td>ANTH 103</td>
<td>Introduction to Prehistoric Archaeology (duplicate credit with ANTH 104 in Group D)</td>
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<tr>
<td>ANTH 222</td>
<td>Technology and Culture</td>
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<tr>
<td>ANTH 225</td>
<td>Peasant Societies</td>
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<td>ANTH 229</td>
<td>Indians of North America</td>
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<td>ANTH 230</td>
<td>Peoples of the World</td>
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<td>ANTH 255</td>
<td>Applied Anthropology</td>
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<td>ANTH 259</td>
<td>Hunting Societies</td>
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<td>ANTH 320</td>
<td>Prehistory of North America</td>
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<td>ANTH 337</td>
<td>South American Indians</td>
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<td>ANTH 370</td>
<td>Culture of Food Production and Economic Development</td>
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<td>ANTH 377</td>
<td>Ecological Anthropology</td>
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<tr>
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<td>Peoples and Cultures of Mexico and Central America</td>
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## Arts and Science (ARSC)

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<tr>
<td>ARSC 127</td>
<td>Shaping of the Modern World</td>
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## Black American Studies (BAMS)

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<tbody>
<tr>
<td>BAMS 110</td>
<td>Introduction to Black American Studies</td>
</tr>
<tr>
<td>BAMS 204</td>
<td>Urban Communities (cross-listed with SOCI 204)</td>
</tr>
<tr>
<td>BAMS 205</td>
<td>Contemporary Afro-American Issues</td>
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<tr>
<td>BAMS 212</td>
<td>Afro-Caribbean Life and Culture</td>
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<tr>
<td>BAMS 361</td>
<td>Race, Power, and Social Conflict (cross-listed with SOCI 361)</td>
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## Center for Science and Culture (CSCC)

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<tr>
<td>CSCC 271</td>
<td>Comparative Medical Systems</td>
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<tr>
<td>CSCC 310</td>
<td>Sociology of Health Care (cross-listed with SOCI 310)</td>
</tr>
<tr>
<td>CSCC 311</td>
<td>Hospitals (cross-listed with SOCI 311)</td>
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## Cognitive Science (CGSC)

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<tr>
<td>CGSC 270</td>
<td>Introduction to Cognitive Science</td>
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## Communication (COMM)

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<td>Introduction to Human Communication Systems</td>
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<tr>
<td>COMM 245</td>
<td>Mass Communication and Culture</td>
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<tr>
<td>COMM 251</td>
<td>The Development of Verbal Communication</td>
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<td>COMM 330</td>
<td>Communication and Social Behavior</td>
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## Criminal Justice (CRJU)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 110</td>
<td>Introduction to Criminal Justice</td>
</tr>
<tr>
<td>CRJU 120</td>
<td>Illicit Drug Use in America</td>
</tr>
<tr>
<td>CRJU 201</td>
<td>Problems of Law Enforcement</td>
</tr>
<tr>
<td>CRJU 202</td>
<td>Problems of Criminal Jurisprudence</td>
</tr>
<tr>
<td>CRJU 203</td>
<td>Problems of Corrections</td>
</tr>
<tr>
<td>CRJU 345</td>
<td>Sociology of the Law (cross-listed with SOCI 345)</td>
</tr>
</tbody>
</table>

## Economics (ECON)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 100</td>
<td>Economic Issues and Policies</td>
</tr>
<tr>
<td>ECON 151</td>
<td>Introductory Microeconomics: Prices and Markets</td>
</tr>
</tbody>
</table>
ANTH 202 Human Evolution and the Fossil Record

ANTH 104 Introduction to Archaeology and Biological Anthropology (duplicate credit with ANTH 102, and with ANTH 103 in Group C)

ANTH 202 Human Evolution and the Fossil Record

GROUP D

Anthropology (ANTH)
ANTH 102 Introduction to Biological Anthropology (duplicate credit with ANTH 104)

ANTH 104 Introduction to Archaeology and Biological Anthropology (duplicate credit with ANTH 102, and with ANTH 103 in Group C)

ANTH 202 Human Evolution and the Fossil Record

Biology (BISC)
BISC 103 General Biology (Both BISC 103 and BISC 207 cannot be used to fulfill Group D. Duplicate credit if taken after BISC 207)

BISC 113 General Biology Laboratory

BISC 104 Neurobiology of the Brain

BISC 105 Human Heredity and Development

BISC 115 Human Heredity and Development Laboratory

BISC 106 Elementary Human Physiology

BISC 116 Elementary Human Physiology Laboratory

BISC 107 Elementary Evolutionary Ecology

BISC 117 Elementary Evolutionary Ecology Laboratory

BISC 108 Molecular Bases of Human Disease

BISC 110 Viruses, Genes, and Cancer

BISC 152 Biology of Human Sexuality

BISC 171 Microbiology in Modern Society

BISC 195 Biological Evolution

BISC 207 Introductory Biology I (Both BISC 103 and BISC 207 cannot be used to fulfill Group D.)

BISC 208 Introductory Biology II

Chemistry (CHEM)
CHEM 100 Chemistry and the Human Environment

CHEM 101 General Chemistry (duplicate credit with CHEM 103, 105, 111)

CHEM 102 General Chemistry (duplicate credit with CHEM 104, 112)

CHEM 103 General Chemistry (duplicate credit with CHEM 101, 105, 111)

CHEM 104 General Chemistry (duplicate credit with CHEM 102, 112)

CHEM 105 General Chemistry (duplicate credit with CHEM 101, 103, 111)

CHEM 111 General Chemistry (duplicate credit with CHEM 101, 103, 105)

CHEM 112 General Chemistry (duplicate credit with CHEM 102, 104)

Cognitive Science (COSC)
COSC 314 Brain and Behavior (cross-listed with PSYC 314)

Computer and Information Sciences (CISC)
CISC 101 Computers and Information Systems

CISC 105 General Computer Science

CISC 106 General Computer Science for Engineers

Entomology (ENTO)
ENTO 201 Wildlife Conservation and Ecology

ENTO 205 Elements of Entomology

ENTO 305 Entomology Laboratory

Geography (GEOG)
GEOG 101 Physical Geography

GEOG 152 Climate and Life

GEOG 206 Physical Geography: Topography—Soils

GEOG 220 Meteorology

GEOG 250 Computer Methods in Geography

Geology (GEOG)
GEOG 105 General Geology (duplicate credit with GEOG 107)

GEOG 106 General Geology (duplicate credit with GEOG 108)

GEOG 107 General Geology I (duplicate credit with GEOG 105)

GEOG 110 Evolution and Extinction (duplicate credit with GEOG 144)

GEOG 144 Evolution and Earth History (duplicate credit with GEOG 110)

GEOG 233 The Ice Ages and Human Chronology

GEOG 234 Earth Resources and Ecology

GEOG 243 Rocks and Minerals

GEOG 245 Volcanoes and Earthquakes

Linguistics (LING)
LING 253 Laboratory Phonetics

Mathematical Sciences (MATH)
MATH 210 Discrete Mathematics

MATH 221 Calculus I (duplicate credit with MATH 241)

MATH 230 Finite Mathematics with Applications

MATH 241 Analytic Geometry and Calculus A (duplicate credit with MATH 221)

Nutrition and Dietetics (NDTD)
NDTD 200 Nutrition Concepts

Philosophy (PHIL)
PHIL 205 Logic (PHIL 351 alternate Duplicate credit if taken after PHIL 351)

PHIL 207 Inductive Logic and Scientific Method

PHIL 211 Basic Decision Theory

PHIL 351 Advanced Logic (alternate to PHIL 205)

Physics (PHYS)
PHYS 109 Planets, Asteroids, and Impacts

PHYS 133 Introduction to Astronomy

PHYS 140 Great Concepts of Physics

PHYS 141 Light, Lasers, Cameras, Perception
The African Studies Minor has been designed to provide an intellectually coherent program of study based upon regularly offered courses in the fields of African history and culture, as well as anthropology.

REQUIREMENTS FOR THE MINOR IN AFRICAN STUDIES

Eighteen credit hours drawn from the list of courses below. 12 credit hours must be from courses that deal with Africa proper. (Students must consult with the program coordinator on making their selection of courses. It should be noted that not all courses are offered every semester.)

6 credits in Anthropology, selected from the following:

- ANTH 260 Socio Cultural History of Africa ........................................ 3
- ANTH 333 Peoples of Africa .............................................................. 3
- ANTH 368 Anthropology of Slavery .................................................. 3
- ANTH 457/657 Survey of African Art ................................................ 3

6 credits in History, selected from the following:

- HIST 134 History of Africa .............................................................. 3
- HIST 330 Peasants and Revolution in Africa ..................................... 3
- HIST 394 Africa Since 1960 ................................................................. 3
- HIST 395 Pan Africanism ................................................................. 3
- HIST 397 History of South Africa ..................................................... 3
- HIST 440 Africa Under Colonial Rule ............................................... 3

3 credits from Black American Studies, selected from the following:

- BAMS/HIST 331 History of the Caribbean I ...................................... 3
- BAMS/HIST 332 History of the Caribbean II ...................................... 3
- BAMS 367 Africans in America ....................................................... 3

3 credits from other areas, which may include:

- POSC 433 African Political Systems .................................................. 3

Any request for changes or exceptions to these requirements must be made in writing to Dr. W. Maloba, Program Coordinator, 316 Ewing (Ext. 2189).

ANTHROPOLOGY

Anthropology is the study of humans and their works. The field both the comparative study of worldwide variations in culture and the development of humankind from prehistoric to contemporary times. Anthropology at the University of Delaware encompasses three distinct but interconnected fields of study: social and cultural anthropology, physical or biological anthropology, and archaeology. Social and cultural anthropologists undertake holistic comparative studies of communities throughout the world, studying their art forms, religions, social organizations, and political and economic institutions. Physical anthropology addresses itself to the evolutionary differentiation of primates, the emergence of hominid populations, primate behavior and processes of adaptation in modern populations. Archaeological work is directed toward recovering the physical remains of prehistoric and historic communities and retracing their many different forms of cultural development and adaptation.

The undergraduate program at the University emphasizes a variety of subspecialties in social and cultural anthropology, but provides, nevertheless, a broad perspective on the fields of archaeology and physical anthropology. Because the department is devoted primarily to undergraduate instruction, students can take advantage of many opportunities to work closely with the faculty and to participate in small seminar classes. Courses are enriched by visits to museums and special exhibits in neighboring cultural centers, by films, and by local field inquiry.

DEGREE: BACHELOR OF ARTS

MAJOR: ANTHROPOLOGY

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

- Social and Cultural Anthropology courses ...................................... 12
- Biological Anthropology courses .................................................. 6
- Archaeological Anthropology courses ............................................. 6
- ANTH 486 Tutorial in Social and Cultural Anthropology ............... 3
- ANTH 487 Tutorial in Archaeology ............................................... 3
- or
- ANTH 488 Tutorial in Physical Anthropology ............................... 3
- Anthropology course ..................................................................... 3

A minimum of six credits must be taken at the 200-level and a minimum of twelve credits must be taken at the 300-level.

ELECTIVES

After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ............................................. 124

DEGREE: BACHELOR OF ARTS

MAJOR: ANTHROPOLOGY EDUCATION

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

- Social and Cultural Anthropology courses ...................................... 12
- Biological Anthropology courses .................................................. 6
- Archaeological Anthropology courses ............................................. 6
ANTH 486 Tutorial in Social and Cultural Anthropology 3
ANTH 487 Tutorial in Archaeology 3
or
ANTH 488 Tutorial in Physical Anthropology 3
Anthropology course 3

A minimum of six credits must be taken at the 200-level and a minimum of twelve credits must be taken at the 300-level.

Within the College
Economics course 3
Geography course 3
History course 3
Political Science course 3
Sociology course 3
PSYC 201 General Psychology 3
Six additional credits selected from the departments listed above 6

Professional Studies
EDST 201 Education in a Multicultural Society 3
EDST 304 Educational Psychology – Social Aspects 3
EDST 305 Educational Psychology – Cognitive Aspects 3
HIST 491 Planning a Course of Instruction 3
HIST 493 Seminar: Problems in Teaching History and Social Sciences 3
EDST 420 Reading in the Content Areas 3
EDST 400 Student Teaching 9

To be eligible to student teach, Anthropology Education majors must have a g p a of 3.0 in their major and an overall g p a of 2.75. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF 124

Honors Program. Honors majors must complete a minimum of 33 credit hours of approved courses to include 18 Honors credits (6 credits of Honors Thesis) All Honors majors must complete satisfactorily the following:

| Social and Cultural Anthropology courses | 12 |
| Biological Anthropology courses | 6 |
| Archaeological Anthropology courses | 6 |
| ANTH 486 Tutorial in Social and Cultural Anthropology | 3 |
| ANTH 487 Tutorial in Archaeology | 3 |
| or
| ANTH 488 Tutorial in Physical Anthropology | 3 |

A minimum of 6 credits must be taken at the 200-level and a minimum of 12 credits must be taken at the 300-level.

The Department will strongly encourage Honors students to take special problem courses beyond the 33 hours required in Anthropology For University requirements for the Honors bachelor's degree, see the University Honors Program in the Special Programs section of this catalog.

INTERDEPARTMENTAL MAJORS

An interdepartmental major, for students having interests in two areas, requires 21 credits each in anthropology and in one other department The following areas are required by the Anthropology Department:

• 3 Credits in biological anthropology
• 3 Credits in archaeology
• 9 Credits in social and cultural anthropology
• 12 Credits at the 300-level or above
• 3 Credits of any 48X Tutorial

A 48X Tutorial satisfies a 300+ requirement as well as any three credits in a subdiscipline (e.g. ANTH 486 would also satisfy three of the nine credit hours required in social and cultural anthropology).

Students should consult with their advisors for additional information on interdepartmental majors.

REQUIREMENTS FOR THE MINOR IN ANTHROPOLOGY

Students wishing to minor in anthropology must complete 18 credits in anthropology courses distributed as follows: 6 credits in 200-level courses and 12 credits in 300- and 400-level courses.

ART

The Department of Art is a studio-oriented department offering a wide range of visual arts activities and subject areas. The art major may elect to concentrate in ceramics, fibers, illustration, metals, painting, photography, printmaking, sculpture, or visual communications (advertising design, applied photography, graphic design) The courses of study are designed to prepare the student for professional practice in the student's chosen area of specialization.

The department enjoys an excellent reputation and has a Macintosh-based computer site within the department, including imaging and layout software, scanners, and color printers The proximity of the University to major cultural centers of the northeastern United States provides students with easy access to important museums and galleries and allows for an outstanding program of visiting artists.

The Department of Art offers two undergraduate degrees: Bachelor of Arts (B.A.) and Bachelor of Fine Arts (B.F.A. in Fine Arts and Visual Communications). The BA degree requires 36 credit hours minimum of art courses and 45 credit hours maximum The BFA degree requires 69 credit hours minimum of art courses and 90 credit hours maximum. All grades in art courses must be C- or better. Admission to the B.F.A. is contingent upon submission of a portfolio of slides and/or original work after completion of the freshman year, a minimum of 12 credits of foundations courses and a 2.66 GPA in studio art courses. A limited number of students are admitted to the program.

Foundation studio art courses are taken in the freshman year. The Foundation Colloquium is taken both semesters of the freshman year. Art concentration, art studies, and art electives are taken in the sophomore through senior years Art 315 is taken after completion of 62 credits and may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation. Art 416 and Art 417 are only required of BFA majors and are taken in the senior year. Art History courses may be applied toward both the art major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

DEGREE: BACHELOR OF ARTS

MAJOR: ART

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Art Foundations
ART 110 Foundation Drawing I 3
ART 111 Foundation 2D Design 3
ART 112 Foundation Drawing II 3
ART 113 Foundation 3D Design 3
ART 114 Foundation Colloquium 0
ART 115 Foundation Colloquium 0

Area of Concentration
Art Concentration 12

Twelve credits beyond those that might have been taken as part of foundations requirements At least three credits must be at the 400-level (ceramics, fibers, illustration, metals, painting, photography, printmaking, sculpture)

Art Electives
Courses from department disciplines outside of art concentration 9

ART 315 Issues in Contemporary Art 3
Within the College
Art History courses 6

ELECTIVES
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree

CREDITS TO TOTAL A MINIMUM OF ........................................ 124

DEGREE: BACHELOR OF FINE ARTS
MAJOR: FINE ARTS, VISUAL COMMUNICATIONS

CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20) 3

COLLEGE REQUIREMENTS

Skill Requirements
Writing: (minimum grade C) 3
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet. (See list of courses approved for second writing requirement, page 59.)

Mathematics:
MATH 114 College Mathematics and Statistics 3
designed for students who do not intend to continue the study of mathematics
or
MATH 115 Pre-Calculus 3
designed for students who intend to continue the study of mathematics
or
One of the following:
MATH 221 Calculus I 3
or
MATH 241 Analytic Geometry and Calculus A 4
or
Successful performance on the college proficiency exam

Breadth Requirements [See page 60]
Group A
Understanding and appreciation of the creative arts and humanities
Nine credits representing at least two areas 9

Group B
The study of culture and institutions over time. Nine credits representing at least two areas 9

Group C
Empirically based study of human beings and their environment. Nine credits representing at least two areas 9

Group D
The study of natural phenomena through experiment and analysis. A minimum of seven credits representing at least two areas including a minimum of one course with an associated laboratory 7

MAJOR REQUIREMENTS

Within the Department
NOTE: 69 credit hours minimum Art Department courses; 80 credit hours maximum Art Department courses; all grades in art must be C- or better

Art Foundations
ART 110 Foundation Drawing I 3
ART 111 Foundation Design 3
ART 112 Foundation Drawing II 3
ART 113 Foundation Design II 3
ART 114 Foundation Colloquium 0
ART 115 Foundation Colloquium 0
Must be taken both fall and spring of freshman year

Area of Concentration
Art Concentration 21
Taken from a specified sequence of courses for each discipline in the department. At least nine credits must be at the 400-level. (advertising design, applied photography, ceramics, fibers, graphic design, illustration, metals, painting, photography, printmaking, sculpture)

Art Studies 21
Taken from a list of specified courses established for each discipline

Art Electives
ART 311 Issues in Contemporary Art 9
ART 315 Professional Practices 3
ART 416 Professional Practices 3
ART 417 BFA Exhibition 0

Within the College
Art History courses 9

ELECTIVES
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ........................................ 124

REQUIREMENTS FOR A MINOR IN ART
Students must obtain written permission from the chair before declaring the minor. Admitted students will be assigned an advisor, generally in the area of study. Eighteen credits are required, distributed as follows:

a) Three studio art courses at the 100-200 level from one or two areas ................................................................. 9 credits
b) Two studio art courses at the 300-400 level from one or two areas ................................................................. 6 credits
c) One related nonstudio art, art history or art criticism course ................................................................. 3 credits

ART CONSERVATION
Conservation encompasses interdisciplinary approaches to the study and care of art and other cultural property. Conservators are professionals who have the specialized knowledge and skills in the arts, sciences, and other fields that enable them to undertake such activities. Conservation activities include carrying out technical and scientific studies on objects, stabilizing the structure and reintegrating the appearance of deteriorated cultural artifacts, and establishing the environment in which artifacts are best preserved. Often, conservators specialize in some particular material or group of objects such as paintings, art on paper, textiles, library and archival artifacts, photographs, archeological or ethnographic materials, sculpture, furniture, or decorative objects. Conservation demands a broad knowledge of many subjects in the sciences and humanities, the astuteness to make sound judgements, the development of excellent manual skills, and the temperament and ability to carry out precise work.

The primary purpose of this interdisciplinary Bachelor's of Art degree program in Art Conservation is to prepare students who wish to pursue graduate education and training in conservation with many of the fundamental academic and experience prerequisites. (It is now generally accepted that conservation professionals must have a graduate degree.) Other work venues after completion of this degree may include museum or gallery work as art handlers, framers, mounters, registrars, or collection managers.

Working closely with an advisor, the students elect a program of coordinated courses in the Departments of Anthropology, Art, Art History, Chemistry and Biochemistry, and others. Students may elect to take one or two Chemistry/Biochemistry tracks: track B is more rigorous and designed primarily for those who may also wish a second major in these sciences. During their junior or senior years, majors are required to participate in two on-site internships in local conservation laboratories. Specialized courses in the historic development of art materials and techniques and the general philosophy and practice of art conservation and preservation are also required. Students in this program must earn a minimum of a C- in all required courses.
### DEGREE: BACHELOR OF ARTS

#### MAJOR: ART CONSERVATION

**CURRICULUM**

See page 56 for University and College requirements.

**MAJOR REQUIREMENTS**

Within the Departments

**Art Conservation:**

Twenty-one credits as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTC 301</td>
<td>Care and Preservation of Cultural Properties</td>
<td>3</td>
</tr>
<tr>
<td>ARTC 680</td>
<td>Studio in the Materials and Techniques of Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ARTC 685</td>
<td>Color Mixing and Matching</td>
<td>3</td>
</tr>
<tr>
<td>ARTC 688</td>
<td>Studio in the Materials and Techniques of Painting I</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Studio in the Materials and Techniques of Painting II</td>
<td>3</td>
</tr>
<tr>
<td>ARTC 690</td>
<td>Studio in the Materials and Techniques of Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ARTC 466</td>
<td>Independent Study: Conservation Internship I &amp; II</td>
<td>6</td>
</tr>
</tbody>
</table>

(Junior and/or Senior status only)

**Art:**

Nine credits as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110</td>
<td>Foundation Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 130</td>
<td>Drawing I: Tools and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>ART 280</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 250</td>
<td>Beginning Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Metals I</td>
<td>3</td>
</tr>
<tr>
<td>ART 290</td>
<td>Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Metals II</td>
<td>3</td>
</tr>
<tr>
<td>ART 373</td>
<td>On Loom Weaving</td>
<td>3</td>
</tr>
</tbody>
</table>

Six credits of Anthropology and/or Art History courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 103</td>
<td>Introduction to Prehistoric Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 153</td>
<td>Introduction to Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 154</td>
<td>Introduction to Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 155</td>
<td>Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 161</td>
<td>Art in the East and West</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 162</td>
<td>History of Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

Eighteen credits, at least four courses at or above the 300-level, of Anthropology, Art History, Black American Studies, Museum Studies, and/or Textiles, Design and Consumer Economics courses from the following:

**Anthropology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 222</td>
<td>Technology and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 229</td>
<td>Indians of North America</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 251</td>
<td>Introduction to Ethnic Arts</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 316</td>
<td>Introduction to Material Culture Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 324</td>
<td>Old World Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 368</td>
<td>Arts &amp; Crafts: Native South America</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 340</td>
<td>Historical Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 379</td>
<td>Historical Archaeology of the Eastern United States</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 410</td>
<td>Archaeological Analysis of Material Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 451</td>
<td>Myth and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 457</td>
<td>Survey of African Art</td>
<td>3</td>
</tr>
</tbody>
</table>

**Art History**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 207</td>
<td>Origins of Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 208</td>
<td>Greek and Roman Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 209</td>
<td>Early Medieval Art 200-1100 AD.</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 210</td>
<td>Late Medieval Art 1000-1400 AD.</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 213</td>
<td>Art of the Northern Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 217</td>
<td>Early Renaissance Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 218</td>
<td>High Renaissance and Mannerist Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 220</td>
<td>Italian Renaissance Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 222</td>
<td>Baroque Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 223</td>
<td>Baroque and Rococo Architecture and Urbanism</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 225</td>
<td>Eighteenth Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 227</td>
<td>Modern Art I</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 228</td>
<td>Modern Art II</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 230</td>
<td>American Art: 1607-1865</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 231</td>
<td>American Art: 1865-present</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 233</td>
<td>Art of China</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 234</td>
<td>Art of Japan</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 235</td>
<td>Art of India</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 236</td>
<td>The Arts of Islam</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 301</td>
<td>Research and Methodology in Art History</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 302</td>
<td>Prints and Society</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 304</td>
<td>Northern Baroque Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 305</td>
<td>Italian Baroque Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 308</td>
<td>Modern Architecture II: 1750-1900</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 309</td>
<td>Modern Architecture II: The Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 310</td>
<td>The Role of the Artist in Society</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 318</td>
<td>History of Photography</td>
<td>3</td>
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<tr>
<td>ARTH 339</td>
<td>Art &amp; Architecture of Europe</td>
<td>3</td>
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</tbody>
</table>

**Black American Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BAMS 320</td>
<td>History of Afro-American Art</td>
<td>3</td>
</tr>
</tbody>
</table>

**Museum Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MSSH 403</td>
<td>History, Philosophy, Functions &amp; Future of Museums</td>
<td>3</td>
</tr>
</tbody>
</table>

**Textiles Design and Consumer Economics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TDCE 214</td>
<td>Costume History Before 1700</td>
<td>3</td>
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<tr>
<td>TDCE 224</td>
<td>Clothing Design and Production Since 1700</td>
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**Chemistry and Biochemistry**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CHEM 103</td>
<td>General Chemistry</td>
<td>4</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 220</td>
<td>Quantitative Analysis</td>
<td>3</td>
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<tr>
<td>CHEM 221</td>
<td>Quantitative Analysis Laboratory</td>
<td>3</td>
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<tr>
<td>CHEM 321</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives**

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

**CREDITS TO TOTAL A MINIMUM OF ........................................ 124**

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**ART HISTORY**

Art history is concerned with the historical development of ideas and institutions as expressed in the visual arts throughout the ages. The Department offers courses in nearly every area of art history with special expertise in European and American painting, photography, sculpture, and architecture from antiquity to the present. The faculty of the Department collaborate with the Winterthur Programs in Early American Culture and Art Conservation, as well as with those in Museum Studies and Historic Preservation. Visits to various museums from New York to Washington are scheduled in connection with many art history courses. The University Gallery houses a collection of original works of art and offers internship, research, and exhibition opportunities for students. Advanced students may draw upon the departmental slide and photograph collections.

Because art history is an interdisciplinary field that touches upon many aspects of civilization, the course of study includes work in such related disciplines as anthropology, studio art, English, history, languages and literatures, music, philosophy, and theater. Although art history majors may concentrate in a particular area, the program is designed to provide students with a broad liberal arts education that is necessary preparation for a variety of careers.

Undergraduate students may participate in an interdepartmental major in art, art history, and chemistry that will prepare them for graduate study or apprenticeship in art conservation, or they may enroll in the art conservation major, an interdisciplinary program. Students interested in museum work should consider taking museum studies courses offered at the University.
DEGREE: BACHELOR OF ARTS
MAJOR: ART HISTORY

CURRICULUM

CREDITS

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

ARTH 153 Introduction to Art History I 3
ARTH 154 Introduction to Art History II 3

Fifteen credits at the 200-level or above, distributed as follows: 15

a. Ancient 3
b. Medieval (including Northern Renaissance) 3
c. Renaissance 3
d. Baroque or 18th Century 3
e. Modern 3

ARTH 301 Research and Methodology in Art History 3
Art History Seminar at the 300 or 400-level 3
Art History courses above 100-level 6

Within the College

Fifteen credits of related work as follows: 15

ENGL 202 Biblical and Classical Literature 3
Any advisor-approved 200- or 300-level History course 3

Nine credits, with the advisor’s approval, from appropriate courses in the following areas: Anthropology, Studio Art, Education, English, History, Foreign Languages and Literatures (other than that used to satisfy the College’s foreign language requirement), Music, Philosophy, and Theatre. A second History course, a Studio Art course, and a foreign language literature course are recommended.

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR THE MINOR IN ART HISTORY

The minor in art history requires 18 credits of course work, including at least four (4) courses above the 100-level. Students must distribute their courses among at least three (3) different key areas of art history that follow: Ancient, Medieval, Renaissance, Baroque, Modern, American, and non-western art.

Several courses in art history may be applied toward fulfilling Group A and B requirements in the College of Arts and Science.

ASTRONOMY

(See Physics and Astronomy)

BIOLOGY

The undergraduate programs in biology are designed to meet intellectual needs as well as to prepare students for subsequent professional or vocational training. Preprofessional students (medicine, physical therapy, dentistry, osteopathy, etc.) generally enroll in majors in the biological sciences. Special advice for these students is available through the Health Sciences Advisement and Evaluation Committee, Room 117A Wolf Hall 831-2282.

Students interested in marine biology are encouraged to take advantage of course and research opportunities in the Department of Biology and the University’s College of Marine Studies.

Courses at the 100-level are designed to serve students who do not choose to major in biology or other sciences. Most of these courses may be used to satisfy the Group D requirements of the College of Arts and Science, but may not be counted toward the credits required for graduation for students majoring or minoring in biology. Students not majoring in biological sciences who have some academic maturity in the sciences or engineering and an interest in biology are advised to elect BISC 207 or 208, perhaps followed by other core courses or other biology courses appropriate to their professional interests.

BIOLICAL SCIENCES

The Department of Biological Sciences offers both a major and a minor in Biological Sciences, as well as a major in biological sciences education, an Honors degree, and Honors courses. An interdisciplinary major between biology and psychology with an emphasis on neuroscience is also available. The Department of Biological Sciences also offers a B.S. degree with a concentration in biotechnology and participates in an interdisciplinary B.S. degree program in Environmental Sciences.

During the freshman year, biological science majors for the B.A., B.S., and Biological Sciences Education degrees ordinarily take courses in biology, chemistry, English, foreign language, and mathematics through calculus. Students should consult their faculty advisors to select wisely from the variety of advanced courses and electives available.

Many opportunities exist for research experience with a faculty member. In addition, an opportunity for teaching experience exists. Up to 4 credits of research or independent study (BISC 266, 366, 466, or 666) may be counted toward the 33 credits required for the majors in Biological Sciences or Biological Sciences Education. Some biology-related courses in other departments may be counted toward the major.

A grade of C- or better must be obtained in all biology courses that are used to satisfy the requirements for the Biological Sciences B.A., B.S., and Biological Sciences Education degrees. Biology courses at the 100-level may not be counted toward these degrees.

DEGREE: BACHELOR OF ARTS
MAJOR: BIOLOGICAL SCIENCES

CURRICULUM

CREDITS

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department (minimum grade C)

BISC 207 Introductory Biology I 4
BISC 208 Introductory Biology II 4
BISC 303 Genetic and Evolutionary Biology 4

At least two of the following courses:

BISC 301 Molecular Biology of the Cell 4
BISC 302 General Ecology 3
BISC 306 General Physiology 4

Biological electives at the 300-level or above (must include one 600-level course other than Independent Study) for a total of at least 33 credits in biology.

Within the College

CHEM 103 General Chemistry 4
CHEM 104 General Chemistry 4
CHEM 221 Organic Chemistry 4
CHEM 222 Organic Chemistry 4
CHEM 231 Elementary Organic Chemistry 4
CHEM 241 Elementary Biochemistry 3
CHEM 251 Elementary Biochemistry Laboratory 4

PHYS 201 Introductory Physics I 4
PHYS 202 Introductory Physics II 4
MATH 221 Calculus I 3

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124
**BIOTeCHNOLOGY • COLLEGE OF ARTS AND SCIENCE**

**DEGREE: BACHELOR OF ARTS**

**MAJOR: BIOLOGICAL SCIENCES EDUCATION**

Students planning to major in biology with the purpose of teaching science in secondary schools must identify themselves and plan their programs with the faculty advisor for secondary education as early in their academic careers as possible. The following course of study is designed to prepare students for teacher certification.

**CURRICULUM**

See page 56 for University and College requirements.

**MAJOR REQUIREMENTS**

Within the Department (minimum grade C)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISC 207</td>
<td>Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BISC 208</td>
<td>Introductory Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BISC 301</td>
<td>Molecular Biology of the Cell</td>
<td>4</td>
</tr>
<tr>
<td>BISC 302</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 303</td>
<td>Genetic and Evolutionary Biology</td>
<td>4</td>
</tr>
<tr>
<td>BISC 306</td>
<td>General Physiology</td>
<td>4</td>
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**Within the College**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 103</td>
<td>General Chemistry</td>
<td>4</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 213</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 214</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Biochemistry Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

**Professional Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDST 201</td>
<td>Education in a Multicultural Society</td>
<td>3</td>
</tr>
<tr>
<td>EDST 304</td>
<td>Educational Psychology – Social Aspects</td>
<td>3</td>
</tr>
<tr>
<td>EDST 305</td>
<td>Educational Psychology – Cognitive Aspects</td>
<td>3</td>
</tr>
<tr>
<td>EDST 420</td>
<td>Reading in the Content Areas</td>
<td>1</td>
</tr>
<tr>
<td>SCEN 491</td>
<td>Teaching Science in Secondary Schools</td>
<td>4</td>
</tr>
<tr>
<td>EDDY 400</td>
<td>Student Teaching</td>
<td>9</td>
</tr>
</tbody>
</table>

To be eligible to student teach, Biological Sciences Education students must have a g p a of 2.75 in their biology major and an overall g p a of 2.5. Students must contact the teacher education program coordinator (see list on p. 127) to obtain the student teaching application and other information concerning student teaching policies.

**CREDITS TO TOTAL A MINIMUM OF .......... 124**

**BIOTeCHNOLOGY**

The Bachelor of Science degree in Biological Sciences with a concentration in biotechnology is a four-year program that emphasizes laboratory courses/experiences in various aspects of molecular, cellular, and physical biosciences. It is intended for students who hope to be employed in a laboratory setting after graduation and for those who will be continuing their education at the graduate level in a related discipline.

During the first two years at the University, students interested in biotechnology generally take the same courses as those pursuing a B.A. degree in biological sciences. At any time during these two years, students can declare interest in biotechnology (BBT); however, they are not admitted into the program until the fall semester of the third year. Students apply for admission in the spring of the sophomore year. Admission is limited to 10 students per class. A minimum grade-point index (GPI) of 2.5 is required for application.

Eligibility for admission to the junior year of the BBT program will be based on the following criteria:

1. Minimal cumulative index: first three semesters — 2.5
2. Minimal index in the sciences; first three semesters — 2.5
3. A grade of C or better in BISC 207, BISC 208, BISC 301 and BISC 371 (or other bio course if BISC 371 is not taken)
4. Within the pool of eligible applicants, admission into the program will be determined by academic achievement, and priority will be given to full-time University sophomores with a stated interest in obtaining employment in biotechnology or in pursuing a graduate degree in a related discipline.

The following courses are recommended. Some courses are not available each year, so advisement and careful planning are strongly suggested.

**DEGREE: BACHELOR OF SCIENCE**

**MAJOR: BIOLOGICAL SCIENCES CONCENTRATION: BIOTECHNOLOGY**

**CURRICULUM**

**UNIVERSITY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 110</td>
<td>Critical Reading and Writing (minimum grade C)</td>
<td>3</td>
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<tr>
<td>CHEM 103</td>
<td>General Chemistry</td>
<td>4</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry</td>
<td>4</td>
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<tr>
<td>CHEM 213</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 214</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Biochemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 201</td>
<td>Introductory Physics I</td>
<td>4</td>
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<tr>
<td>PHYS 202</td>
<td>Introductory Physics II</td>
<td>4</td>
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<tr>
<td>MATH 221</td>
<td>Calculus I</td>
<td>3</td>
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<tr>
<td>GEO 105</td>
<td>General Geology</td>
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<tr>
<td>GEO 201</td>
<td>Geology Elective</td>
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**Professional Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDST 201</td>
<td>Education in a Multicultural Society</td>
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<tr>
<td>EDST 420</td>
<td>Reading in the Content Areas</td>
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<tr>
<td>SCEN 491</td>
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</table>

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**CREDITS TO TOTAL A MINIMUM OF .......... 124**

**MAJOR REQUIREMENTS**

Within the Department (minimum grade C)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BISC 207</td>
<td>Introductory Biology</td>
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</tr>
<tr>
<td>BISC 208</td>
<td>Introductory Biology</td>
<td>4</td>
</tr>
<tr>
<td>BISC 301</td>
<td>Molecular Biology of the Cell</td>
<td>4</td>
</tr>
<tr>
<td>BISC 303</td>
<td>Genetic and Evolutionary Biology</td>
<td>4</td>
</tr>
<tr>
<td>BISC 305</td>
<td>Cell Physiology</td>
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</tr>
<tr>
<td>BISC 492</td>
<td>Human and Mammalian Cytogenetics</td>
<td>3</td>
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<td>BISC 493</td>
<td>Mammalian Cytogenetics Laboratory</td>
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**II**

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<tr>
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<tr>
<td>BISC 471</td>
<td>Immunobiology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 601</td>
<td>Immunology/Immunology</td>
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**III**

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<tr>
<td>BISC 619</td>
<td>Macromolecules Laboratory</td>
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</table>

Two advanced lecture/laboratory combinations selected from the following three groups:

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BISC 499</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>BISC 699</td>
<td></td>
<td>4</td>
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</tbody>
</table>
COLEGE OF ARTS AND SCIENCE • BIOTECHNOLOGY

BISC 602 Molecular Biology of Animal Cells 3
BISC 608 Genetic Toxicology 3
BISC 617 Laboratory Techniques for Electron Microscopy 3
BISC 650 Bacterial Physiology 3
BISC 654 Biochemical Genetics 3
BISC 658 Developmental Genetics 3
BISC 667 Plant Cell Biology 3
BISC 673 Topics in Immunogenetics 3
BISC 679 Virology 3
BISC 693 Human Genetics 3
BISC 667 Gene Control: Antibody Genes, HIV-1 3

Within the College
CHEM 103 General Chemistry 4
CHEM 104 General Chemistry 4
CHEM 321 Organic Chemistry 4
CHEM 322 Organic Chemistry 4
CHEM 527 Introductory Biochemistry 3
CHEM 641 and
CHEM 642 Biochemistry 6
PHYS 201 Introductory Physics I 4
PHYS 202 Introductory Physics II 4
MATH 221 Calculus I 3

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. BISC 444 is encouraged but not required, and does not count as credit in the major.

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR A MINOR IN BIOLOGY

The required courses are BISC 207, 208; two courses from BISC 301, 302 (or 321), 303, 371, 306; CHEM 103, 104 (or 101, 102), and 213 (or 321, 325); plus the necessary prerequisites for any of these courses. Nursing majors may satisfy the chemistry requirement by taking CHEM 104, 105 and 106. Nursing, Medical Technology, Nutrition, and Dietetics majors may substitute BISC 276 for BISC 306.

NEUROSCIENCE

An interdepartmental major between Biological Sciences and Psychology is designed for students with an interest in the interdisciplinary field of neuroscience. The major prepares students for graduate programs in neuroscience, neuropsychology, physiology, and pharmacology, and for positions in pharmaceutical and biotechnology companies. It also provides preparation for professional programs in medicine, physical therapy, and related areas.

In this interdepartmental major students first learn the fundamentals of biology and psychology and then concentrate on courses that examine the structure and function of the nervous system and its relationship to behavior. Detailed instructions regarding an interdepartmental major are available from the Departments or the Arts and Science Advisement Center.

MEDICAL EDUCATION PROGRAMS

The University participates in a cooperative medical education program with the Medical Center of Delaware and the Jefferson Medical College of Philadelphia, sponsored by the Delaware Institute for Medical Education and Research. Under the terms of this program, up to twenty students who are Delaware residents will be admitted to Jefferson Medical College. A portion of the clinical training of these students takes place in the Medical Center of Delaware. Information on application to this program may be obtained from the office of the Associate Director of the Department of Biology.

The University of Delaware also participates with Jefferson Medical College in the Medical Scholars Program which permits selected students to begin their medical education while undergraduates at the University (see page 58).

COOPERATIVE EDUCATION PROGRAM

Through the cooperation of area businesses, industry, and government agencies, students may integrate their academic study with practical work experience. Co-op positions are available during any semester, including winter and summer sessions, for academic credit. Students register for BISC 444 (1-9 credit hours). Credits earned in this pass/fail course count toward graduation but not toward the 33 credit hours needed for the major in biological sciences. Placements vary from part to full time and may be salaried or on a volunteer basis.

Information about this program may be obtained from the Career Services Center.

BLACK AMERICAN STUDIES

Black American Studies focuses on the study of Black Americans and their ancestry. The program is designed to present a comprehensive study of the origins, conditions, and experiences of Black Americans using the perspectives and techniques of various disciplines in the humanities and social sciences. As a study of human beings, Black American Studies deals with human issues, seeking to relate specific problems to the major value systems in this country and the world. Integrated with other disciplines in all appropriate phases of education, Black American Studies has meaning for present life and is useful for future learning or coping situations. The program serves as a catalyst for multi-ethnic and cultural understanding.

Although a major in Black American Studies is not available, special arrangements within the Bachelor of Arts in Liberal Studies degree program are possible. A minor in Black American Studies is available for those students wishing to pursue related careers in this area.

Black American Studies is an interdisciplinary program with its basic content in the social sciences and humanities. The program involves regular course offerings that deal with historic, cultural, and social phenomena of people of African descent. Students from diverse disciplines utilize Black American Studies courses to fulfill general requirements as well as to supplement their majors. The interdisciplinary and multidisciplinary nature of the program allows flexibility for students seeking the relationships between their respective majors and Black American Studies. For information, contact Professor Carole Marks, 417 Ewing Hall (302) 831-2897.

REQUIREMENTS FOR A MINOR IN BLACK AMERICAN STUDIES

Students applying for the minor in Black American Studies must have completed at least one semester of full-time study at the University with a grade-point average of at least 2.1. The courses for the minor program are BAMS 110, 304, 306, and one BAMS elective at or above the 300-level with the approval of an advisor.

Alternative arrangements for a minor in Black American Studies are available but must be approved in advance by a program advisor and the director. Students may arrange alternative course selections, provided that at least 15 of the 18 credits toward the minor carry BAMS designations, that no more than 6 credits of the 18 differ from the basic program, and that at least 9 credits of the program are at or above the 300-level.

Advanced students who have shown the potential for doing research in a particular area may participate in independent study and special projects on an individual or group basis. Suggested prerequisites for advanced classes in Black American Studies include BAMS 110, 205 and 206.
CHEMISTRY AND BIOCHEMISTRY

The Department of Chemistry and Biochemistry provides five undergraduate degree options: B.A. in Chemistry, B.A. in Chemistry Education, B.S. in Chemistry, B.S. in Chemistry with concentration in Environmental Studies, and a B.S. in Biochemistry. A minor in Chemistry is also available.

DEGREE: BACHELOR OF ARTS
MAJOR: CHEMISTRY

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

A minimum grade C- is required for each CHEM course required for the B.A. degree in Chemistry.

- CHEM 103 General Chemistry ........................................ 4
- CHEM 104 General Chemistry ........................................ 4
- CHEM 220 Quantitative Analysis ..................................... 3
- CHEM 221 Quantitative Analysis Laboratory ....................... 1
- CHEM 111 General Chemistry ......................................... 3
- CHEM 112 General Chemistry ......................................... 4
- CHEM 119 Quantitative Chemistry I .................................. 2
- CHEM 212 Quantitative Chemistry II ................................ 3
- CHEM 321 Organic Chemistry ......................................... 4
- CHEM 322 Organic Chemistry ......................................... 4

or

- CHEM 331 Organic Chemistry ......................................... 3
- CHEM 332 Organic Chemistry Laboratory I ......................... 2
- CHEM 333 Organic Chemistry Laboratory II ......................... 3
- CHEM 457 Instrumental Methods ..................................... 3
- CHEM 438 Instrumental Methods Laboratory ....................... 1
- CHEM 418 Introductory Physical Chemistry ......................... 1
- CHEM 419 Introductory Physical Chemistry ......................... 3
- CHEM 445 Physical Chemistry Laboratory ......................... 1

or

- CHEM 443 Physical Chemistry ......................................... 3
- CHEM 444 Physical Chemistry ......................................... 3
- CHEM 445 Physical Chemistry Laboratory ......................... 1

One of the following eight courses:

- CHEM 457 Inorganic Chemistry ....................................... 3
- CHEM 527 Introductory Biochemistry ................................ 3
- CHEM 610 History of Chemistry ....................................... 3
- CHEM 620 Analytical Spectroscopy .................................. 3
- CHEM 622 Electroanalytical Chemistry .............................. 3
- CHEM 623 Chemometrics ................................................ 3
- CHEM 634 Advanced Organic Chemistry: Synthesis and Reactivity 3

Within the College

Related Work

Mathematics

- MATH 221 Calculus I ..................................................... 3
- MATH 241 Analytic Geometry and Calculus A (strongly preferred) .... 4

Physics

- PHYS 201 Introductory Physics I .................................... 4
- PHYS 207 Fundamentals of Physics I ................................ 4
- PHYS 202 Introductory Physics II .................................... 4
- PHYS 208 Fundamentals of Physics II ................................ 4

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .................................. 124
DEGREE: BACHELOR OF SCIENCE
MAJOR: CHEMISTRY
CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20)

COLLEGE REQUIREMENTS
Skill Requirements

Writings (minimum grade C) 3
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet (See list of courses approved for second writing requirement, page 59)

Foreign Language: 0-12
Completion of the intermediate-level course (107 or 112) in a modern foreign language. Students with four or more years of high school work in a single modern foreign language may attempt to fulfill the requirement in that language by taking an examination in German (German recommended)

Breadth Requirements (see page 60)
A total of twenty-one credits from Groups A, B and C is required with a minimum of six credits in each group. The six credits from each group could be from the same area

Group A
Understanding and appreciation of the creative arts and humanities

Group B
The study of culture and institutions over time

Group C
Empirically based study of human beings and their environment

MAJOR REQUIREMENTS
Within the Department
CHEM 111 General Chemistry 3
CHEM 112 General Chemistry 3
CHEM 120 Quantitative Chemistry I 1
CHEM 331 Organic Chemistry 3
CHEM 332 Organic Chemistry 3
CHEM 334 Organic Chemistry Majors Laboratory II 2
CHEM 443 Physical Chemistry 3
CHEM 445 Physical Chemistry Laboratory 3
CHEM 437 Instrumental Methods 3
CHEM 438 Instrumental Methods Laboratory 1
CHEM 527 Introductory Biochemistry 3
CHEM 641 Biochemistry 3
CHEM 444 Physical Chemistry 3
CHEM 446 Physical Chemistry Laboratory 1
CHEM 457 Inorganic Chemistry 3
CHEM 458 Inorganic Chemistry Laboratory 1
CHEM 455 Seminar (two semesters) 2
Advanced Chemistry course at 600-level or higher 3
CHEM 468 Undergraduate Research (optional) 3

(Chemistry credits to total a minimum of 45)

Within the College
Related Work
MATH 241 Analytic Geometry and Calculus A 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 302 Ordinary Differential Equations I (Recommended) 3
PHYS 207 Fundamentals of Physics I 3
PHYS 208 Fundamentals of Physics II 3
PHYS 201 Introductory Physics I 4
PHYS 202 Introductory Physics II 4

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree

CREDITS TO TOTAL A MINIMUM OF 128

DEGREE: BACHELOR OF SCIENCE
MAJOR: CHEMISTRY
CONCENTRATION: ENVIRONMENTAL STUDIES
CURRICULUM

MAJOR REQUIREMENTS
See previous column for all requirements for the B.S. in Chemistry.

Concentration Requirements

Basic Environmentally Related Science
One of the following two-semester sequences:
BISC 207/208 Introductory Biology I/II 8
GEOG 152/220 Climate and Life/Meteorology 7
GEOG 106/107 General Geology 8

Advanced courses in Chemistry of the Environment
Two of the following three-credit courses:
BISC 302 General Ecology 3
CIEG 433 Hazardous Waste Management 3
CIEG 435 Industrial Waste Management 3
CIEG 437/637 Water and Waste Water Quality 3
CIEG 632 Chemical Aspects of Environmental Engineering 3
CIEG 634 Physical Aspects of Environmental Engineering 3
CIEG 636 Biological Aspects of Environmental Engineering 3
GEOG 412 Physical Climatology 3
GEOG 420 Atmospheric Physics 3
GEOG 423 Atmospheric Dynamics 3
GEOG 421 Environmental and Applied Geology 3
MAST 646 Chemical Oceanography 3
MAST 647 Physical Chemistry of Seawater 3
MAST 681 Remote Sensing of Environment 3
PLSC 601 Soil Chemistry 3

Candidates for a B.S. in chemistry must achieve a cumulative GPA of at least 2.00 for all chemistry courses taken. Repeated Chemistry courses will be counted only once in the calculation of the chemistry GPA. The calculation of the chemistry course GPA (2.00 minimum required for graduation) for candidates for the B.S. degree in Chemistry or Biochemistry will not include grades earned for lower level subdisciplinary courses taken after a higher level course in the same subdiscipline has been taken and passed with a grade of C- or higher. Likewise, freshman-level courses may not be used by upperclassmen as GPA enhancers after those required for graduation have been taken. CHEM 342 and CHEM 100 will be regarded as exceptions to the foregoing prohibitions, since their subject-matter coverage is considerably different than that found in higher level courses.

Example: A grade earned in CHEM 214 subsequent to a C or better grade earned in CHEM 527 (or CHEM 641/642) would not be counted in the chemistry GPA calculation for B.S. chemistry or biochemistry majors.

DEGREE: BACHELOR OF SCIENCE
MAJOR: BIOCHEMISTRY
CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20)

COLLEGE REQUIREMENTS
Skill Requirements

Writings: (minimum grade C) 3
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet (See list of courses approved for second writing requirement, page 59)

Foreign Language:
Completion of the intermediate-level course (107 or 112) in a modern foreign language. Students with four or more years of high school work in a single modern foreign language may attempt to fulfill the requirement in that language by taking an examination (German recommended)

Breadth Requirements (see page 60)
A total of twenty-one credits from Groups A, B and C is required with a minimum of six credits in each group. The six credits from each group could be from the same area
MAJOR REQUIREMENTS

Within the Department

CHEM 111 General Chemistry ........................................ 3
CHEM 112 General Chemistry ......................................... 3
CHEM 119 Organic Chemistry ......................................... 3
CHEM 120 Quantitative Chemistry II ............................... 3
CHEM 331 Organic Chemistry ......................................... 3
CHEM 332 Organic Chemistry Laboratory ......................... 2
CHEM 334 Organic Chemistry Majors Laboratory II ............. 2
CHEM 342 Introduction to Biochemistry ............................ 3
CHEM 310 Computers in Chemistry (Recommended) ............. 3

CHEM 443 Physical Chemistry ......................................... 3
CHEM 457 Instrumental Methods ...................................... 3
CHEM 458 Instrumental Methods ...................................... 1
CHEM 641 Biochemistry ................................................. 3
CHEM 419 Introductory Physical Chemistry ......................... 3

CHEM 444 Physical Chemistry ......................................... 3
CHEM 445 Physical Chemistry Laboratory .......................... 3
CHEM 462 Biochemistry ................................................. 3

Advanced Chemistry or Biochemistry course at 600-level ................ 3
Advanced Biochemistry courses at 600-level ........................ 6

or

Biology courses selected from the following: .......................... 6
BISC 303 Genetic and Evolutionary Biology [4] ....................... 4
BISC 601 Immunology .................................................. 4
BISC 604 Recombinant DNA Laboratory [4] .......................... 4
BISC 654 Biochemical Genetics ....................................... 3
BISC 675 Virology ...................................................... 3
BISC 698 Comparative Endocrinology [3] ............................. 3
CHEM 465 Seminar [two semesters] ................................... 2
CHEM 468 Undergraduate Research ................................... 4

or

Biology laboratory courses selected from the following: .............. 8
BISC 303 Genetic and Evolutionary Biology [4] ....................... 4
BISC 306 General Physiology ......................................... 4
BISC 601 Immunology .................................................. 4

(Chemistry credits to total a minimum of 46)

Within the College

Related Work

MATH 241 Analytic Geometry and Calculus A ....................... 4
MATH 221 Calculus I ..................................................... 3
MATH 242 Analytic Geometry and Calculus B ....................... 4
MATH 222 Calculus II .................................................... 3
BISC 257 Introductory Biology I ....................................... 4
BISC 205 Introductory Biology II ..................................... 4
PHYS 201 Introductory Physics I ...................................... 4
PHYS 202 Introductory Physics II ..................................... 4

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .................................. 127

Candidates for a B.S. in biochemistry must achieve a cumulative GPA of at least 2.00 for all chemistry courses taken. Repeated Chemistry courses are counted only once in the calculation of the Chemistry GPA. The calculation of the chemistry course GPA (2.00 minimum required for graduation) for candidates for the B.S. degree in Chemistry or Biochemistry will not include grades earned for lower level disciplinary courses taken after a higher level course in the same discipline has been taken and passed with a grade of C or higher. Likewise, freshman-level courses may not be used by upperclassmen as GPA enhancers after those required for graduation has been taken. CHEM 342 and CHEM 100 will be regarded as exceptions to the foregoing prohibitions, since their subject matter coverage is considerably different than that found in higher level courses.

Example: A grade earned in CHEM 214 subsequent to a C or better grade earned in CHEM 527 (or CHEM 641/642) would not be counted in the chemistry GPA calculation for B.S. chemistry or biochemistry majors.

REQUIREMENTS FOR A MINOR IN CHEMISTRY

The minor in chemistry requires a minimum of 19 credits as follows:

CHEM 103, 104, [or 111,112,119] ........................................ 8
Any three of the following:
CHEM 220, 221 [or 437, 438] ......................................... 4
CHEM 321 [or 331, 333] ................................................. 4.5
CHEM 457, 458 ............................................................ 4
CHEM 418, 445 [or 443, 445] ........................................... 4
CHEM 527 or 641 .......................................................... 3

Students must have a minimum grade of C- in each course counted toward the minor.

COGNITIVE SCIENCE

(See Linguistics)

COMMUNICATION

A major in communication is designed to increase knowledge about communication processes, to increase awareness of the potential impact of communication on society, and to make students more competent in communicating with others and in assisting others to communicate more effectively.

Toward this end, communication is viewed as a social and behavioral science. Courses are offered in the areas of human communication theory, interpersonal/organizational communication, mass communication, public relations, and oral communication skills.

Students enter this major as communication interest majors. A 2.0 overall GPA is required to declare the communication interest major. In order to qualify as communication majors, students must complete the four core courses with a minimum grade point average of 2.75.

Students who major in communication will work with their assigned faculty advisor to plan a program of courses that leads to the degree of Bachelor of Arts. Further information may be obtained from the department, or on the Internet by browsing the University home page (http://www.udel.edu) and following the links to the Department's homepage.

DEGREE: BACHELOR OF ARTS

MAJOR: COMMUNICATION

CONCENTRATION: INTERPERSONAL/ORGANIZATIONAL COMMUNICATION

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

NOTE: All 4XX communication courses may be limited to COMM majors. COMM 245, 256, 301, and 350 must each be completed with a GPA of 2.75 or better.

COMM 245 Mass Communication and Culture .......................... 3
COMM 256 Principles of Communication Theory ...................... 3
COMM 301 Introduction to Communication Research Methods ....... 3
COMM 350 Communication and Social Behavior ....................... 3
COMM 350 Public Speaking .............................................. 3
COMM 361 Interpersonal Communication ................................ 3
COMM 417 Communication and the Management of Conflict ........... 3
COMM 455 Symbolism in Organizations ................................ 3
COMM 456 Communication in Organizations .......................... 3
One additional 400-level COMM course, not COMM 466 or COMM 464, outside your concentration

CREDITS

73
Six to 15 COMM elective credits
for a total of not less than 36 nor more than 45 COMM credits. These may be taken from any of the following:

**Interpersonal/Organizational Communication Electives**

- COMM 200 Introduction to Human Communication Systems 3
- COMM 251 The Development of Verbal Communication 3
- COMM 356 Small Group Communication 3
- COMM 438 Speech and Language in Human Behavior 3
- COMM 440 Topics in Interpersonal and Organizational Communication 3
- COMM 452 Communication, Power and Values 3
- COMM 485 Analysis of Verbal Communication 3

**Mass Communication Electives**

NOTE: COMM 325 is prerequisite to COMM 388 and COMM 435

- COMM 325 Television Production 3
- COMM 330 Communication and Social Behavior 3
- COMM 256 Principles of Communication Theory 3
- COMM 418 Topics in Mass Communication 3
- COMM 435 Advanced TV Production and Direction 3
- COMM 454 Children and the Mass Media 3

**Public Relations Electives**

NOTE: ENGL 307 is prerequisite to the following sequence and should be taken in the sophomore year

- COMM 309 Introduction to Public Relations 3
- COMM 409 Public Relations Planning 3
- COMM 413 Public Relations Program Design 3

**General Electives**

- COMM 464 Internship 1-6
- COMM x67 Experimental Courses (367/467) 3

**ELECTIVES**

After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

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**DEGREE: BACHELOR OF ARTS**

**MAJOR: COMMUNICATION**

**CONCENTRATION: MASS COMMUNICATION**

See page 36 for University and College requirements.

**MAJOR REQUIREMENTS**

Within the Department

NOTE: All 400-level communication courses may be limited to COMM majors. COMM 245, 256, 301, and 350 must each be completed with a grade of 2.75 or better

- COMM 245 Mass Communication and Culture 3
- COMM 256 Principles of Communication Theory 3
- COMM 301 Introduction to Communication Research Methods 3
- COMM 330 Communication and Social Behavior 3
- COMM 350 Public Speaking 3
- COMM 365 Legal Issues of the Mass Media 3
- COMM 370 Theories of Mass Communication 3
- COMM 424 Media Message Analysis 3
- COMM 450 Mass Communication Effects 3

One additional 400-level COMM course, not COMM 466 or 464, outside your concentration may be taken.

Six to 15 COMM elective credits

for a total of not less than 36 nor more than 45 COMM credits. These may be taken from any of the following:

**Interpersonal/Organizational Communication Electives**

- COMM 200 Introduction to Human Communication Systems 3
- COMM 251 The Development of Verbal Communication 3
- COMM 356 Small Group Communication 3
- COMM 438 Speech and Language in Human Behavior 3
- COMM 440 Topics in Interpersonal and Organizational Communication 3
- COMM 452 Communication, Power and Values 3
- COMM 485 Analysis of Verbal Communication 3

**Mass Communication Electives**

NOTE: COMM 325 is prerequisite to COMM 388 and COMM 435

- COMM 325 Television Production 3
- COMM 330 Communication and Social Behavior 3
- COMM 418 Topics in Mass Communication 3

**Public Relations Electives**

NOTE: ENGL 307 is prerequisite to the following sequence and should be taken in the sophomore year

- COMM 309 Introduction to Public Relations 3
- COMM 409 Public Relations Planning 3
- COMM 413 Public Relations Program Design 3

**General Electives**

- COMM 464 Internship 1-6
- COMM x67 Experimental Courses (367/467) 3

**ELECTIVES**

After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

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**COMPARATIVE LITERATURE**

The aim of the program in comparative literature is to allow students to study literature in an international and intercultural relationship, across boundaries of nation and language. Comparative literature embraces the study of literary themes, forms, movements and relations, as well as the interrelations of literature and other disciplines. The program offers the student the opportunity, with the aid of an advisor, to construct a program reflecting individual areas of interest.

Students majoring or minor the in comparative literature must have a command of at least one foreign language at the advanced elective level. It is strongly recommended that majors pursue a second foreign language at least through the intermediate level. Students planning to go on to graduate work in comparative literature should be well advised to include work in a classical language in their program. Majors are expected to make use of their command of foreign languages in comparative literature courses. For information on the Comparative Literature major or minor, contact Professor Nicolas Gross, 349 Smith Hall (302) 831-2039.

In addition to the courses designed specifically for students specializing in comparative literature, the program offers a number of courses in cooperation with other departments (English, Foreign Languages, and Literatures, Anthropology, Philosophy, etc.): these courses should be of interest to most students.

**DEGREE: BACHELOR OF ARTS**

**MAJOR: COMPARATIVE LITERATURE**

**CURRICULUM**

See page 36 for University and College requirements.

**MAJOR REQUIREMENTS**

Within the Department

NOTE: All 400-level communication courses may be limited to COMM majors. COMM 245, 256, 301, and 350 must each be completed with a grade of 2.75 or better

- COMM 245 Mass Communication and Culture 3
- COMM 256 Principles of Communication Theory 3
- COMM 301 Introduction to Communication Research Methods 3
- COMM 330 Communication and Social Behavior 3
- COMM 350 Public Speaking 3
- COMM 365 Legal Issues of the Mass Media 3
- COMM 370 Theories of Mass Communication 3
- COMM 424 Media Message Analysis 3
- COMM 450 Mass Communication Effects 3

One additional 400-level COMM course, not COMM 466 or 464, outside your concentration may be taken.

Six to 15 COMM elective credits

for a total of not less than 36 nor more than 45 COMM credits. These may be taken from any of the following:

**Interpersonal/Organizational Communication Electives**

- COMM 200 Introduction to Human Communication Systems 3
- COMM 251 The Development of Verbal Communication 3
- COMM 356 Small Group Communication 3
- COMM 438 Speech and Language in Human Behavior 3
- COMM 440 Topics in Interpersonal and Organizational Communication 3
- COMM 452 Communication, Power and Values 3
- COMM 485 Analysis of Verbal Communication 3

**Mass Communication Electives**

NOTE: COMM 325 is prerequisite to COMM 388 and COMM 435

- COMM 325 Television Production 3
- COMM 330 Communication and Social Behavior 3
- COMM 418 Topics in Mass Communication 3

**Public Relations Electives**

NOTE: ENGL 307 is prerequisite to the following sequence and should be taken in the sophomore year

- COMM 309 Introduction to Public Relations 3
- COMM 409 Public Relations Planning 3
- COMM 413 Public Relations Program Design 3

**General Electives**

- COMM 464 Internship 1-6
- COMM x67 Experimental Courses (367/467) 3

**ELECTIVES**

After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

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**COLLEGE REQUIREMENTS**

**Skill Requirements**

**Writings** (minimum grade C)

A second writing course involving significant writing experience including two papers with a combined minimum of 8,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 1.5 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 59)

**Foreign Language**

Completion of the intermediate-level course (107 or 112) in a given language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination.
Mathematics:
MATH 114 Elementary Mathematics and Statistics 3
(designated for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus 3
(designated for students who intend to continue the study of mathematics)

One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4

Successful performance on the college proficiency exam.

Breadth Requirements

Group A
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D
The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

MAJOR REQUIREMENTS

Within the Department

CLMT 202 Biblical and Classical Literature 3
(ENGL 205 or 206 or CLMT 316 may be substituted with advisor's approval)
CLMT 207 Great Writers of the Western World: 1100-1700 3
CLMT 208 Great Writers of the Western World: 1650-1950 3
CLMT 484 Literary Criticism 3
Comparative literature courses or courses in related fields approved by the advisor

Within the College

Nine credits in each of two national literatures studied in the original text with at least three credits in the 400-level.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR THE MINOR IN COMPARATIVE LITERATURE

I. Core courses in comparative literature (6 credits)
Two of CLMT 202, 207, or 208

II. Foreign literature courses (6 credits)
Advanced elective-level courses studied in the original text

III. Advanced English or Advanced CLMT course (3 credits)

IV. Approved related area course (3 credits)

COMPUTER AND INFORMATION SCIENCES

With the aid of computers, it is possible to solve problems previously well beyond the reach of human capability at speeds that are equal to the urgency created by the modern world. Problems recently considered far too complex to be treated quantitatively are now solved routinely.

The Department of Computer and Information Sciences offers four-year undergraduate programs leading to either a Bachelor of Arts degree in computer science or a Bachelor of Science degree in computer science. The latest information on these programs is available in the department office in 103 Smith Hall or by e-mail to: ugradpgrm@cis.udel.edu.

Courses are also provided for students in other areas who desire an understanding of the application of computers to the subject of their major interest. In many courses, problem solutions require the use of computers located in the University of Delaware Computing Center. These computers are available to undergraduate students for use in connection with both course work and research.

DEGREE: BACHELOR OF ARTS

MAJOR: COMPUTER AND INFORMATION SCIENCES

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR THE MINOR IN COMPARATIVE LITERATURE

I. Core courses in comparative literature (6 credits)
Two of CLMT 202, 207, or 208

II. Foreign literature courses (6 credits)
Advanced elective-level courses studied in the original text

III. Advanced English or Advanced CLMT course (3 credits)

IV. Approved related area course (3 credits)

COMPUTER AND INFORMATION SCIENCES • COLLEGE OF ARTS AND SCIENCE
CISC Concentration ........................................ 12
Twelve credits in advanced courses in an advisor-approved concentra-
tion. Students are encouraged to explore how other subject areas
impact and are impacted by computer science. An approval form
signed by the CISC advisor is required.

Within the College

Related Work
MATH 210 Discrete Mathematics I ......................... 3
MATH 241 Analytic Geometry and Calculus A ...................... 4
MATH 315 Discrete Mathematics II ...................... 3
STAT 205 Statistical Methods ............................ 4
ENGL 312 Written Communications in Business .............. 3

or
ENGL 410 Technical Writing ................................ 3
CSCC 355 Computers, Ethics and Society .......... 3

One of the following sequences of laboratory science courses:
PHYS 207 Fundamentals of Physics I .................. 4
PHYS 208 Fundamentals of Physics II .................. 4

or
CHEM 103 General Chemistry ......................... 4
CHEM 104 General Chemistry ......................... 4

or
BISC 207 Introductory Biology I .................. 4
BISC 208 Introductory Biology II .................. 4

or
GEOL 106 General Geology ......................... 4
GEOL 107 General Geology ......................... 4

Within the University
ELEG 202 Introduction to Digital Systems .............. 4

or
ELEG 210 Introduction to Combinational Logic .......... 2

and
ELEG 211 Introduction to Sequential Circuits .......... 2

ELECTIVES
After required courses are completed, sufficient elective credits must be
taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ....................... 124

REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE

A minor in computer science consists of a total of 15 to 17 credits
including CISC 181, CISC 220, and CISC 280. Students without
prior programming experience should take CISC 105 first. Six addi-
tional credits at the 200-level or above should be chosen with the
advisor’s approval.

CRIMINAL JUSTICE

See Sociology and Criminal Justice

EAST ASIAN STUDIES

This is an interdisciplinary program for students wishing to focus
their interests on East Asia as an enhancement and complement to
their undergraduate majors. Students will declare the minor in either
East Asian Studies without Language or East Asian Studies with
Language. For information, contact Professor David Pong, 401A
Ewing Hall (302) 831-2371.

EAST ASIAN STUDIES WITHOUT LANGUAGE

Number of credits required: ................................. 18
A minimum grade of C- is required in all courses.

A. Introductory Courses

6 credits in two disciplines from the following courses in the humanities:
ARTH 155 Asian Art
ARTH 161 Art in East and West
FLIT 380 Topics: Japanese Culture in Translation
### DEGREE: BACHELOR OF ARTS
### MAJOR: ECONOMICS

#### CURRICULUM

**See page 56 for University and College requirements.**

**MAJOR REQUIREMENTS**

**Within the Department**

- **Minimum C in all required ECON courses:**
  - ECON 151 Introductory Microeconomics: Prices and Markets 3 credits
  - ECON 152 Introductory Macroeconomics: National Economy 3 credits
  - ECON 300 Intermediate Microeconomic Theory 3 credits
  - or
  - ECON 301 Quantitative Microeconomic Theory 3 credits
  - ECON 302 Banking and Monetary Policy 3 credits
  - ECON 303 Intermediate Macroeconomic Theory 3 credits

- Five Economics courses, at least two of which are at or above the 400-level: 15 credits

**Within the College**

- STAT 201 Introduction to Statistics I 3 credits
- or
- STAT 370 Introduction to Statistical Analysis I 3 credits

**CURRICULUM**

**ELECTIVES**

- After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

**CREDITS TO TOTAL A MINIMUM OF …………………… 124**

Credit will not be allowed for both courses of any of the following sets of corresponding courses: ECON 311 and ECON 411; ECON 332 and ECON 433; ECON 344 and ECON 444; and ECON 381 and ECON 483.

Departmental requirements and course descriptions are subject to continual revision. Updated statements of requirements, course descriptions, and departmental policies are available in the department office.

### DEGREE: BACHELOR OF ARTS
### MAJOR: ECONOMICS EDUCATION

#### CURRICULUM

**See page 56 for University and College requirements.**

**MAJOR REQUIREMENTS**

**Within the Department**

- **Minimum C in all required ECON courses:**
  - ECON 151 Introductory Microeconomics: Prices and Markets 3 credits
  - ECON 152 Introductory Macroeconomics: National Economy 3 credits
  - ECON 300 Intermediate Microeconomic Theory 3 credits
  - or
  - ECON 301 Quantitative Microeconomic Theory 3 credits
  - ECON 302 Banking and Monetary Policy 3 credits
  - ECON 303 Intermediate Macroeconomic Theory 3 credits

- Five Economics courses, at least two of which are at or above the 400-level: 15 credits

**Within the College**

- POSC 105 The American Political System 3 credits
- GEOG 120 World Regional Geography 3 credits
- HIST 104 World History 1648 to Present 3 credits
- HIST 206 United States History since 1865 3 credits

Additional credits to total 27 with nine credits in each discipline: 15 credits

(Political Science, Geography, and History)

**Professional Studies**

- EDST 201 Education in a Multicultural Society 3 credits
- EDST 304 Educational Psychology - Social Aspects 3 credits
- EDST 305 Educational Psychology - Cognitive Aspects 3 credits
- HIST 491 Planning a Course of Instruction 3 credits

**CREDITS TO TOTAL A MINIMUM OF …………………… 124**

To be eligible to student teach, Economics Education students must have a g.p.a. of 3.0 in their major and an overall g.p.a. of 2.75. Students should consult the teacher education program coordinator (see list on p 127) to obtain the student teaching application and other information concerning student teaching policies.

### ENGLISH

The English Department has a widely varied undergraduate program. In the undergraduate literary studies major, students can study literature in English from Britain, America, and around the world. Undergraduates may elect concentrations in journalism, film, or business/technical writing, or, if they meet the admission requirements, may elect the program in English education. Journalism concentrators undergo intensive training in written journalism and serve on the staff of the University newspaper, *The Review*, in connection with their study. A number of undergraduate concentration students also gain internship experience with local newspapers, TV stations, and other organizations. The film concentration includes courses in history and theory of film as well as film and literature, Black cinema, and other subjects. The program in business/technical writing is designed to prepare students for positions as professional writers or editors in industry and government. This concentration requires internships of qualified students. The concentration in English education prepares students to teach English in the secondary schools (grades 7-12). Graduates of this program receive the B.A. in English and are eligible for teacher certification in 27 states and the Overseas Dependent Schools System.

The department regularly offers a series of creative writing courses both comprehensive and tailored to individual student needs. Courses in writing poetry and fiction are available at all levels, and the department publishes the literary magazine *Caesura*. In addition, the students give poetry and fiction readings, both with the faculty and by themselves.

The following courses may not be counted toward the English major or minor: ENGL 200, 204, 210, 301, and 365 ENGL 307, 308, 309, 310, 407, and 409 may be counted only as part of the concentration in business/technical writing; and ENGL 384 may be counted only as part of the concentration in English education.

### DEGREE: BACHELOR OF ARTS
### MAJOR: ENGLISH

#### CURRICULUM

**See page 56 for University and College requirements.**

**MAJOR REQUIREMENTS**

**Within the Department**

Five of the following six courses:

- ENGL 202 Biblical and Classical Literature 3 credits
- ENGL 205 British Literature I 3 credits
- ENGL 206 British Literature II 3 credits
- ENGL 300 Texts and Contexts 3 credits
- ENGL 324 Shakespeare 3 credits
- ENGL 340 American Literature to the Civil War 3 credits
- ENGL 341 American Literature: Civil War to World War II 3 credits

Twelve credits at the 300-level or above distributed as follows: 12 credits

- a A course other than Shakespeare in Medieval or Renaissance literature
- b A course in literature between 1700 and 1900
- c A course in Modern literature
- d A course in cultural and theoretical studies

77
MAJOR REQUIREMENTS

Within the Department

Five of the following six courses:
ENGL 202 Biblical and Classical Literature
ENGL 205 British Literature I
ENGL 206 British Literature II
ENGL 300 Texts and Contexts
ENGL 324 Shakespeare
ENGL 340 American Literature to the Civil War

or

ENGL 341 American Literature: Civil War to World War II

CREDITS TO TOTAL A MINIMUM OF ...................... 124

DEGREE: BACHELOR OF ARTS

MAJOR: ENGLISH

CONCENTRATION: BUSINESS/TECHNICAL WRITING

CREDITS

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Five of the following six courses:
ENGL 202 Biblical and Classical Literature
ENGL 205 British Literature I
ENGL 206 British Literature II
ENGL 300 Texts and Contexts
ENGL 324 Shakespeare
ENGL 340 American Literature to the Civil War

or

ENGL 341 American Literature: Civil War to World War II

Nine credits at the 300-level or above distributed as follows:

a. A course other than Shakespeare in Medieval or Renaissance literature or a course in literature between 1700 and 1900

b. A course in Modern literature or a course in cultural and theoretical studies

c. A literature course

One of the following three courses:
ENGL 312 Written Communications in Business
ENGL 410 Technical Writing
ENGL 412 Business and Technical Publication

ENGL 415 Writing for the Professions
ENGL 414 Technical Editing
ENGL 464 Internship in Business/Technical Writing

Optional:
ENGL 413 Topics in Technical Writing or one other EBT course

All EBT majors must take at least one ENGL 480 seminar and can count only one 200-level course toward the minimum number of credits for the major.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ...................... 124

DEGREE: BACHELOR OF ARTS

MAJOR: ENGLISH

CONCENTRATION: JOURNALISM

CREDITS

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Five of the following six courses:
ENGL 202 Biblical and Classical Literature
ENGL 205 British Literature I
ENGL 206 British Literature II
ENGL 300 Texts and Contexts
ENGL 324 Shakespeare
ENGL 340 American Literature to the Civil War

or

ENGL 341 American Literature: Civil War to World War II

Nine credits at the 300-level or above distributed as follows:

a. A course other than Shakespeare in Medieval or Renaissance literature or a course in literature between 1700 and 1900

b. A course in Modern literature or a course in cultural and theoretical studies

c. A literature course

One of the following three courses:
ENGL 312 Written Communications in Business
ENGL 410 Technical Writing
ENGL 412 Business and Technical Publication

ENGL 415 Writing for the Professions
ENGL 414 Technical Editing
ENGL 464 Internship in Business/Technical Writing

Prior to enrolling in the following course, ENGL 110 or equivalent must be completed with a grade of B or better:
ENGL 307 News Writing and Editing

At least nine credits chosen from among the following courses:
ENGL 308 Reporter's Practicum
ENGL 309 Feature and Magazine Writing
ENGL 310 Copy Editing and Layout
ENGL 407 Advanced Reporting
ENGL 409 Topics in Journalism

May be taken in addition to the 36 required credits in English:
ENGL 466 Internship

All EJR majors must take at least one ENGL 480 seminar and can count only one 200-level course toward the minimum number of credits for the major.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ...................... 124

DEGREE: BACHELOR OF ARTS

MAJOR: ENGLISH EDUCATION

CREDITS

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

ENGL 202 Biblical and Classical Literature
ENGL 205 British Literature I
All ECS majors must take at least one ENGL 480 seminar and can count only Two other courses at the 300-level or above, to be chosen in consultation concerning student teaching policies. Eligible students may elect to pursue the Honors degree in English or the Degree with Distinction. Those taking the Honors degree must satisfy all the requirements established by the University Honors Program; in addition, they must meet requirements set by the English Department: a minimum of 12 credits in Honors courses in English, not including the thesis (one course must be an Honors Seminar, ENGL 480 Honors); and an Honor thesis.

REQUIREMENTS FOR OTHER PROGRAMS IN ENGLISH

The English Department also offers a program leading to a minor in English. The course of study for the English minor includes ENGL 202, 205, 206, and 324 and two additional courses in literature and composition above the 200-level. One course must be in British Literature or Cultural and Theoretical Studies, and one course must be in American Literature. By earning 15 credits in recommended courses at the 300-level, a student may minor in Irish Studies. Required courses include ENGL 351 and HIST 375. A student may also minor in Medieval Studies.

FOREIGN LANGUAGES AND LITERATURES

Modern. To prepare students to speak, understand, read and write the language they are studying, the Department of Foreign Languages and Literatures uses proficiency-oriented communicative approaches to language learning. Many of the elementary/intermediate courses are team taught, and there are special programs for students at this level who want to continue their language/culture study abroad. A high-tech Foreign Language Media Center is available for student use.

All majors and minors are encouraged to spend at least one semester, one winter session, or one summer of study in a country in which the foreign language is spoken natively.

Ancient. The program offers a liberal education in the fullest sense of the term by giving one the means to identify a problem, solve it without losing sight of its larger implications, express the solution clearly, and persuade others of its validity. Students of the classics learn habits of accuracy and clarity of expression and in the process grapple with the universal ethical, social, and political problems.

PLACEMENT AND DUPLICATE CREDIT

Students intending to enroll in a foreign language course will be placed according to the number of years of previous study of that language. As a general rule, students with fewer than two years of high school foreign language or the equivalent will be placed at the 105 level, students with two or three years will be placed at the 106 level, and students with more than three years will be placed at the 107 level. Exceptions to this rule can be made only upon the recommendation of the Foreign Language Placement Advisor.

No credit will be granted for a 100-level course if the student has already successfully completed a 200-level course or a course higher in the 100-level sequence in the same language, e.g., credit for a 105 course will not be given if a 106 course has already been successfully completed.

Skipping Courses: Students are advised that once they begin their foreign language courses at the 100-level, they are not permitted to skip courses in the sequence (for example, students are not permitted to move directly from 105 to 107). The prerequisite for each 100-level course must be observed.

It is important to note that only 15 credits of the same elementary/intermediate language will be counted towards the degree.
FOREIGN LANGUAGE EDUCATION

The Department of Foreign Languages & Literatures administers the B.A. program in Foreign Language Education leading to secondary certification in Classics, French, German, Italian, Latin, Russian, and Spanish. Those students pursuing teaching certification are encouraged to study in the country where their particular foreign language is spoken. Information on study abroad programs is available through the Department of Foreign Languages and Literatures.

DEGREE: BACHELOR OF ARTS
MAJOR: CLASSICAL STUDIES

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

GREK 101 Elementary Greek I ........................................ 3
GREK 102 Elementary Greek II ........................................ 3

Nine credits in Latin at the 200-level or above ........................... 9
Three credits in Latin or Greek at the 300-level or above ............... 3

Within the College

Twenty-one credits at the 200-level or above .............................. 21

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .................................. 124

Notes: See the associate chair of the department for detailed requirements.

The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.

DEGREE: BACHELOR OF ARTS
MAJOR: FOREIGN LANGUAGES AND LITERATURES

CONCENTRATION: CLASSICS

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

GREK 101 Elementary Greek I ........................................ 3
GREK 102 Elementary Greek II ........................................ 3

Eighteen credits in Greek and Latin above the 100-level with six credits at or above the 300-level, and at least six credits in each language ................................. 18

FLIT 202 Biblical and Classical Literature ................................ 3
FLIT 316 Classical Mythology ........................................... 3
FLIT 322 Topics: Classical Literature in Translation ................. 3

Within the College

Six credits from 200-, 300-, or 400-level courses (including at least six credits in each language) ................................................. 6

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .................................. 124

Notes: See the associate chair of the department for detailed requirements.

The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.

DEGREE: BACHELOR OF ARTS
MAJOR: FOREIGN LANGUAGES AND LITERATURES

CONCENTRATION: FRENCH STUDIES

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

FREN 201 French Reading .............................................. 3
FREN 202 French Composition ......................................... 3

Twelve credits in French and Latin at or above the 100-level with six credits at or above the 300-level, and at least 3 credits in each language ................................. 12

FLIT 202 Biblical and Classical Literature ................................ 3
FLIT 316 Classical Mythology ........................................... 3
FLIT 322 Topics: Classical Literature in Translation ................. 3

Professional Studies

EDST 201 Education in a Multicultural Society ......................... 3
EDST 304 Educational Psychology - Social Aspects .................. 3
EDST 305 Educational Psychology - Cognitive Aspects ............. 3
EDDV 400 Student Teaching ............................................ 9
FLLT/L1NG 421 Methods of Teaching Foreign Languages .......... 3
FLLT/L1NG 422 Language Syllabus Design ............................ 3
LING/L1NG 424 Second Language Testing ............................ 3

To be eligible for student teach, Foreign Language Education students must have a g.p.a. of 3.0 in their Classics Education major and an overall g.p.a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student application and other information concerning student teaching policies.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .................................. 124

Notes: See the associate chair of the department for detailed requirements.

The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.

DEGREE: BACHELOR OF ARTS
MAJOR: FRENCH EDUCATION

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

FREN 201 French Reading .............................................. 3
FREN 202 French Composition ......................................... 3

Twelve credits in FREN electives at the 200-level and above ......................... 12
Twelve credits in FREN literature at the 300 or 400-level ..................... 12

Within the College

A total of twelve to fifteen credits at the 200-level or above, chosen with prior approval of the advisor and according to option requirements, from the following areas: French, Anthropology, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Linguistics, Music, Philosophy, Political Science, Theatre ................................. 12-15

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .................................. 124

Notes: See the associate chair of the department for detailed requirements.

The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.

DEGREE: BACHELOR OF ARTS
MAJOR: FRENCH EDUCATION

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

FREN 201 French Reading & Composition: Short Story .................. 3
FREN 202 French Reading & Composition: Theatre ..................... 3
FREN 301 French Literature: Prose ................................... 3
FREN 302 French Literature: Poetry & Theatre ........................ 3
FREN 314 French Phonetics ............................................ 3

One of the following courses:

FREN 313 Intensive French Composition ................................ 3
FREN 306 Practical Oral/Written Expression ............................ 3
FREN 305 Advanced French Conversation ............................. 3

Notes: See the associate chair of the department for detailed requirements.

The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.
Two of the following courses:
FREN 308 Contemporary France II ........................................... 3
FREN 325 French Civilization I .................................................. 3
FREN 326 French Civilization II ................................................ 3
FREN 453 French Civilization III ................................................. 3

One of the following courses:
FREN 401 Advanced French Grammar ......................................... 3
FREN 402 Advanced French Composition ..................................... 3
FREN 403 History & Evolution of French Language ......................... 3
FREN 406 Advanced French Language ......................................... 3
LING 440 Structure of French .................................................. 6
Six credits in French Literature at the 400-level .......................... 6

Professional Studies
EDST 201 Education in a Multicultural Society ........................... 3
EDST 304 Educational Psychology - Social Aspects ....................... 3
EDST 306 Educational Psychology - Cognitive Aspects .................. 3
EDDV 400 Student Teaching .................................................... 9
FLIT/LING 421 Methods of Teaching Foreign Languages ............... 3
FLIT/LING 422 Language Syllabus Design ................................ 3
LING/FLIT 424 Second Language Testing .................................... 3

To be eligible to student teach, Foreign Language Education students must have a GPA of 3.0 in their French Education major and an overall GPA of 2.75. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student application and other information concerning student teaching policies.

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ..................................... 124

DEGREE: BACHELOR OF ARTS
MAJOR: FOREIGN LANGUAGES AND LITERATURES
CONCENTRATION: GERMAN STUDIES

For the different options available under the German Studies concentration (language and literature, civilization and culture, area studies, period studies, linguistics), students should see their advisor or the associate chair of the department.

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
Twelve credits in GRMN electives at the 200-level and above ............. 12
Twelve credits in GRMN Literature at the 300 or 400-level ................. 12
(at least six credits must be at the 400-level)

Within the College
A total of twelve to fifteen credits at the 200-level or above, 12-15
chosen with prior approval of the advisor and according to option requirements, from the following areas: German, Anthropology, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Linguistics, Music, Philosophy, Political Science, Theatre

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ..................................... 124

Note: See the associate chair of the department for detailed requirements.
The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.

DEGREE: BACHELOR OF ARTS
MAJOR: GERMAN EDUCATION

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
GRMN 200 German Grammar Review ....................................... 3
GRMN 205 German Conversation ............................................. 3
GRMN 211 German Reading and Composition: Short Fiction .......... 3
GRMN 212 German Reading and Composition: Drama .................. 3
GRMN 305 German Conversation and Composition .................... 3
GRMN 306 Practical Oral/Written Expression ............................ 3
GRMN 311 Introduction to German Literature I .......................... 3
GRMN 312 Introduction to German Literature II ........................ 3
GRMN 308 Contemporary Germany II ....................................... 3
GRMN 325 German Civilization and Culture ............................... 3
GRMN 340 Focus on Genre: German Drama, Prose or Poetry .......... 3
GRMN 355 Special Topics .................................................... 3

One of the following courses:
GRMN 403 History of the German Language ............................... 3
GRMN 406 Advanced German Language .................................... 3
LING 460 The Structure of German ......................................... 3
Six credits in GRMN Literature at the 400-level .......................... 6

Professional Studies
EDST 201 Education in a Multicultural Society ........................... 3
EDST 304 Educational Psychology - Social Aspects ....................... 3
EDST 306 Educational Psychology - Cognitive Aspects .................. 3
FLIT/UNG 421 Methods of Teaching Foreign Languages ............... 3
LING/FLIT 422 Language Syllabus Design ................................ 3
EDDV 400 Student Teaching .................................................... 9

To be eligible to student teach, Foreign Language Education students must have a GPA of 3.0 in their German Education major and an overall GPA of 2.75. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student application and other information concerning student teaching policies.

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ..................................... 124

DEGREE: BACHELOR OF ARTS
MAJOR: FOREIGN LANGUAGES AND LITERATURES
CONCENTRATION: ITALIAN STUDIES

For the different options available under the Italian Studies concentration (language and literature, civilization and culture, linguistics, area studies, period studies), students should see their advisor or the associate chair of the department.

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
Twelve credits in ITAL electives at the 200-level and above ............. 12
Twelve credits in ITAL Literature at the 300 or 400-level ................. 12
(at least six credits must be at the 400-level)

Within the College
A total of twelve to fifteen credits at the 200-level or above, 12-15
chosen with prior approval of the advisor and according to option requirements, from the following areas: Italian, Anthropology, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Linguistics, Music, Philosophy, Political Science, Theatre

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ..................................... 124

Note: See the associate chair of the department for detailed requirements.
The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.
### DEGREE: BACHELOR OF ARTS

#### MAJOR: ITALIAN EDUCATION

**CURRICULUM**

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<td>ITAL 250</td>
<td>Introduction to Business Italian</td>
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<td>ITAL 205</td>
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<td>ITAL 206</td>
<td>Culture through Conversation</td>
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<td>ITAL 211</td>
<td>Italian Reading and Composition: Short Fiction</td>
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<td>ITAL 212</td>
<td>Italian Reading and Composition: Drama and Prose</td>
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<td>ITAL 305</td>
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#### Professional Studies

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<td>Educational Psychology - Social Aspects</td>
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<td>EDDV 400</td>
<td>Student Teaching</td>
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<tr>
<td>FLLT/L1NG 421</td>
<td>Methods of Teaching Foreign Languages</td>
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<td>FLLT/L1NG 422</td>
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<tr>
<td>LING/FLLT 424</td>
<td>Second Language Testing</td>
<td>3</td>
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</tbody>
</table>

To be eligible to student teach, Foreign Language Education students must have a g.p.a of 3.0 in their Italian Education major and an overall g.p.a of 2.75. Students should consult the teacher education program coordinator for detailed requirements.

#### ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

**CREDITS TO TOTAL A MINIMUM OF: 124**

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### DEGREE: BACHELOR OF ARTS

#### MAJOR: LATIN EDUCATION

**CURRICULUM**

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<tr>
<td>LATN 3xx</td>
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<td>LATN 4xx</td>
<td>History of Latin Literature</td>
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#### Professional Studies

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<td>LING/FLLT 424</td>
<td>Second Language Testing</td>
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To be eligible to student teach, Foreign Language Education students must have a g.p.a of 3.0 in their Latin Education major and an overall g.p.a of 2.75. Students should consult the teacher education program coordinator for detailed requirements.

#### ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

**CREDITS TO TOTAL A MINIMUM OF: 124**

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### DEGREE: BACHELOR OF ARTS

#### MAJOR: FOREIGN LANGUAGES AND LITERATURES

##### CONCENTRATION: RUSSIAN STUDIES

**CURRICULUM**

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<td>LING/FLLT 424</td>
<td>Second Language Testing</td>
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</table>

To be eligible to student teach, Foreign Language Education students must have a g.p.a of 3.0 in their Russian Education major and an overall g.p.a of 2.75. Students should consult the teacher education program coordinator for detailed requirements.

#### ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

**CREDITS TO TOTAL A MINIMUM OF: 124**

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### DEGREE: BACHELOR OF ARTS

#### MAJOR: FOREIGN LANGUAGES AND LITERATURES

##### CONCENTRATION: LATIN STUDIES

For the different options available under the Latin Studies concentration (language and literature, area studies, period studies, linguistics), students should see their advisor or the associate chair of the department.

**CURRICULUM**

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<tr>
<th>Course Code</th>
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<tr>
<td>LATN 4xx</td>
<td>History of Latin Literature</td>
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#### ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

**CREDITS TO TOTAL A MINIMUM OF: 124**

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### DEGREE: BACHELOR OF ARTS

#### MAJOR: RUSSIAN EDUCATION

**CURRICULUM**

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The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.

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### DEGREE: BACHELOR OF ARTS

#### MAJOR: RUSSIAN STUDIES

**CURRICULUM**

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<td>RUSS 205</td>
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The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.
FOREIGN LANGUAGES AND LITERATURES • COLLEGE OF ARTS AND SCIENCE

DEGREE: BACHELOR OF ARTS
MAJOR: FOREIGN LANGUAGES AND LITERATURES
CONCENTRATION: SPANISH STUDIES

For the different options available under the Spanish Studies concentration (language and literature, civilization and culture, Spanish area studies, Latin American area studies, period studies, linguistics), students should see their advisor or the associate chair of the department.

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Twelve to fifteen credits in SPAN electives at the 200-level and above

Twelve credits in SPAN literature at the 300 or 400-level

(at least six credits must be at the 400-level)

Within the College

A total of twelve to fifteen credits at the 200-level or above,

chosen with prior approval of the advisor and according to option requirements, from the following areas: Spanish, Anthropology, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Linguistics, Music, Philosophy, Political Science, Theatre

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

Note: See the associate chair of the department for detailed requirements.

The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.

DEGREE: BACHELOR OF ARTS
MAJOR: SPANISH EDUCATION

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SPAN 201 Spanish Reading and Composition

(Span 200 is a prerequisite)

Two of the following courses:

SPAN 310 Introduction to Russian Literature

SPAN 312 Introduction to Russian Literature

SPAN 325 Russian Civilization and Culture

SPAN 401 Advanced Russian Grammar and Composition

Six credits in RUSL literature at the 400-level

Related Work:

FLIT 327 Topics: Russian Literature in Translation

FLIT 375 Topics: Russian Culture in Translation

Professional Studies

EDST 201 Education in a Multicultural Society

EDST 304 Educational Psychology - Social Aspects

EDST 305 Educational Psychology - Cognitive Aspects

EDDY 400 Student Teaching

FLIT/FLIT 421 Methods of Teaching Foreign Languages

FLIT/FLIT 422 Language Syllabus Design

FLIT/FLIT 424 Second Language Testing

Professional Studies

EDST 201 Education in a Multicultural Society

EDST 304 Educational Psychology - Social Aspects

EDST 305 Educational Psychology - Cognitive Aspects

EDDY 400 Student Teaching

FLIT/FLIT 421 Methods of Teaching Foreign Languages

FLIT/FLIT 422 Language Syllabus Design

FLIT/FLIT 424 Second Language Testing

One of the following courses:

SPAN 308 Contemporary Spain

SPAN 325 Spanish Civilization and Culture

SPAN 326 Latin American Civilization and Culture

Any three of the following four literature survey courses:

SPAN 301 Survey of Spanish Literature

SPAN 302 Survey of Spanish Literature

SPAN 303 Survey of Spanish-American Literature

SPAN 304 Survey of Spanish-American Literature

Six credits in SPAN literature at the 400-level

Related Work:

EDST 201 Education in a Multicultural Society

EDST 304 Educational Psychology - Social Aspects

EDST 305 Educational Psychology - Cognitive Aspects

EDDY 400 Student Teaching

FLIT/FLIT 421 Methods of Teaching Foreign Languages

FLIT/FLIT 422 Language Syllabus Design

FLIT/FLIT 424 Second Language Testing

One of the following courses:

SPAN 401 Advanced Spanish Grammar

SPAN 403 History of the Spanish Language

SPAN 406 Advanced Spanish Language

Six credits in SPAN literature at the 400-level

Related Work:

EDST 201 Education in a Multicultural Society

EDST 304 Educational Psychology - Social Aspects

EDST 305 Educational Psychology - Cognitive Aspects

EDDY 400 Student Teaching

FLIT/FLIT 421 Methods of Teaching Foreign Languages

FLIT/FLIT 422 Language Syllabus Design

FLIT/FLIT 424 Second Language Testing

One of the following courses:

FLIT 327 Topics: Russian Language in Translation

FLIT 375 Topics: Russian Culture in Translation

Professional Studies

EDST 201 Education in a Multicultural Society

EDST 304 Educational Psychology - Social Aspects

EDST 305 Educational Psychology - Cognitive Aspects

EDDY 400 Student Teaching

FLIT/FLIT 421 Methods of Teaching Foreign Languages

FLIT/FLIT 422 Language Syllabus Design

FLIT/FLIT 424 Second Language Testing

Foreign Language Education students must have a g.p.a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student application and other information concerning student teaching policies.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: FOREIGN LANGUAGES AND LITERATURES
CONCENTRATION: THREE LANGUAGES

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

First Language

Six first-language elective credits at the 200-level and above

Nine credits in literature at the 300 and 400-level

(at least three credits at each level)

Three additional credits at the 400-level

Second Language

Six second-language elective credits at the 200-level and above

Nine credits in literature at the 300 and 400-level

(at least three credits at each level)

Three additional credits at the 400-level

Third Language

Nine to eleven credits of third-language courses (at least three credits at or above the 200-level for Western language)

Related Work

Six credits from 200-, 300-, or 400-level courses

(including courses in translation) in Foreign Languages and Literatures, Comparative Literature, or Linguistics, selected in consultation with the advisor

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124
DEGREE: BACHELOR OF ARTS  
MAJOR: FOREIGN LANGUAGES AND LITERATURES  
CONCENTRATION: FOUR LANGUAGES  

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

First Language
Six first-language elective credits at the 200-level and above........ 6
Nine credits in literature at the 300 or 400-level ............. 9
(at least three credits at each level)
Three additional credits at the 400-level ................. 3

Second Language
Six to eight credits of second-language courses (two courses) ... 6-8
Six credits at the 200-level and above ................. 6

Third Language
Nine to eleven credits of third-language courses (at least three credits at or above the 200-level for Western language) ........ 9-11

Fourth Language
Six to eight credits of fourth-language courses (at or above the intermediate level [106 or 111] for Western language) ........ 6-8

Related Work
Six credits from 200-, 300-, or 400-level courses (including courses in translation) in Foreign Languages and Literatures, Comparative Literature, or Linguistics selected in consultation with the advisor...

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ......................... 124

BA DEGREES WITH HONORS IN FOREIGN LANGUAGES AND LITERATURES OR IN FOREIGN LANGUAGE EDUCATION

The following B.A. Degrees may be taken as Honors Degrees:

1. Foreign Languages and Literatures Concentrations:
   - Classics, French Studies, German Studies, Italian Studies, Latin Studies, Russian Studies, Spanish Studies, Three Languages, Four Languages
   - Classics Education
   - French Education
   - German Education
   - Italian Education
   - Latin Education
   - Russian Education
   - Spanish Education

Honors Degree Requirements

To receive the B.A. with Honors, students must complete the following:

A. All requirements for the B.A. in Foreign Languages and Literatures or for the B.A. in Foreign Language Education

B. All the University’s generic requirements for the Honors Degree

Note: At least six of the Honors credits in the major must be at the 300-level or above.

The Honors Thesis will normally be written in the target language. With the prior approval of the thesis director and the Department Chair, the thesis may be written in English.

STUDY ABROAD

In addition to several University-sponsored semester programs abroad in such locations as Costa Rica, London, Paris, Scotland, and Madrid, various programs for study abroad are specifically designed for students of foreign languages.

For the advanced foreign language student, the Department of Foreign Languages and Literatures sponsors fall semester programs in France (Paris), Germany (Bayreuth), and Spain (Granada), and a spring semester program in Italy (Siena). Beginning and intermediate-level students may participate in winter session programs in Costa Rica, France, Germany, Italy, Mexico, Japan, Martinique, or Spain.

Students majoring in French, German, Italian, and Spanish are expected to spend a semester abroad, and minors are strongly encouraged to do so.

Please consult the main office of the Department of Foreign Languages and Literatures for further details on all programs.

CREDITS TO TOTAL A MINIMUM OF ......................... 124
DEGREE: BACHELOR OF ARTS
MAJOR: FRENCH, GERMAN, OR SPANISH/POLITICAL SCIENCE

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS
French, German, or Spanish/Political Science majors must complete all designated courses and any prerequisite courses (e.g., for admission to the 200-level language courses) with no grade below a C.

Within the Department of Political Science and International Relations

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 105</td>
<td>The American Political System</td>
<td>3</td>
</tr>
<tr>
<td>(or other required intro courses)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POSC 240</td>
<td>Introduction to International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POSC 270</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>POSC 310</td>
<td>European Governments</td>
<td>3</td>
</tr>
<tr>
<td>POSC 441</td>
<td>Problems of Western European Politics by Country</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Problems of Western European Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

3 additional courses at the 300 or 400-level with at least 2 at the 400-level and at least 2 in the area of International Relations | 9 |

Within the Department of Foreign Languages and Literatures

In addition to completing the courses listed below, students are required to participate in a semester abroad program sponsored by the Department of Foreign Languages and Literatures (in Paris, or the equivalent, for French; in Bayreuth, or the equivalent, for German; in Granada, or the equivalent, for Spanish)

French

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 2xx, 3xx, 4xx (prior to semester abroad)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>FREN 3xx, 4xx</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>FREN 4xx (literature) (Newark campus only)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

German

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRMN 2xx, 3xx, 4xx (prior to semester abroad)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GRMN 3xx, 4xx</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>GRMN 4xx (literature) (Newark campus only)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Spanish

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 2xx, 3xx, 4xx (prior to semester abroad)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SPAN 3xx, 4xx</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>SPAN 4xx (literature) (Newark campus only)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

The following courses taken abroad count toward the French, German, or Spanish/Political Science major:

Political Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 441</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

French

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 306 or FREN 406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 308</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 355 or FREN 455</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 339</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

German

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GRMN 306 or GRMN 406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRMN 308</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRMN 355 or GRMN 455</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Spanish

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 306 or SPAN 406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 308</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 355 or SPAN 455</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 339</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

Admission and Financial Aid. The departments of Political Science and International Relations and Foreign Languages and Literatures will jointly make decisions regarding admission of students to the program and recommendations for financial aid.

INTERNATIONAL HONORS CERTIFICATES

For majors in Foreign Languages and Literatures (French Studies, German Studies, Spanish Studies) or Political Science and International Relations. This program requires participation in a semester program abroad (in Paris for French, Bayreuth for German, or Granada for Spanish).

18 credits of Honors courses at the 300-level or above are required for this interdisciplinary certificate, 9 in a foreign language (French, German, or Spanish), and 9 in Political Science or International Relations.

Information is available at the Department offices.

FOREIGN LANGUAGE CERTIFICATES FOR INTERNATIONAL RELATIONS AND POLITICAL SCIENCE STUDENTS

The (Honors) Foreign Language Certificate Program is intended to enhance the international dimension of the Bachelor’s degree in Political Science or International Relations. To earn a Bachelor’s degree in Political Science or International Relations with a Foreign Language Certificate or an Honors Foreign Language Certificate in German, French, or Spanish, a student is required to complete a designated sequence of four courses at the 200 and 300-levels. This is accomplished through a combination of two courses taken during Winter Session in Germany, France, Spain, or Costa Rica, and two courses taken on the Delaware campus. The Winter Session courses must be taken first, followed by the courses offered on the Delaware campus.

German Courses

<table>
<thead>
<tr>
<th>Winter Session in Bayreuth, Germany</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRMN 206 Culture through Conversation</td>
<td>3</td>
</tr>
<tr>
<td>GRMN 208 Contemporary Germany I</td>
<td>3</td>
</tr>
</tbody>
</table>

Delaware Campus

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRMN 255 German Politics in the Press</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GRMN 325 German Civilization and Culture</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

French Courses

<table>
<thead>
<tr>
<th>Winter Session in Caen, France</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 206 Culture through Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FREN 208 Contemporary France I</td>
<td>3</td>
</tr>
</tbody>
</table>

Delaware Campus

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 255 French Politics in the Press</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FREN 325 French Civilization I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>FREN 326 French Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>FREN 453 French Civilization III</td>
<td>3</td>
</tr>
</tbody>
</table>

Spanish Courses (Spain)

<table>
<thead>
<tr>
<th>Winter Session in Granada, Spain</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 206 Culture through Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 208 Contemporary Spain I</td>
<td>3</td>
</tr>
</tbody>
</table>

Delaware Campus

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 255 Spanish Politics in the Press</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPAN 325 Spanish Civilization and Culture</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Spanish Courses (Costa Rica)

<table>
<thead>
<tr>
<th>Winter Session in San Jose, Costa Rica</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 206 Culture through Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 207 Contemporary Latin America I</td>
<td>3</td>
</tr>
</tbody>
</table>

Delaware Campus

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 254 Latin American Politics in the Press</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPAN 326 Latin American Civilization and Culture</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Foreign Language Certificate: To earn a Bachelor’s degree in Political Science or International Relations with a Foreign Language Certificate in German, French, or Spanish, a student is required to complete the designated sequence of four 200 and 300-level German, French, or Spanish courses (listed above) with no grade below a C.
Honors Foreign Language Certificate: To earn a Bachelor’s degree in Political Science or International Relations with an Honors Foreign Language Certificate, the student must:

- Complete the designated sequence of four courses at the 200 and 300-levels in German, Spanish, or French listed above with no grade below a B-.
- Take all four of these courses for Honors credit.
- Achieve a 3.0 cumulative grade index by the time of graduation.

Students who have successfully completed the above requirements will be awarded an Honors Foreign Language Certificate that will be presented during an appropriate Honors ceremony and recorded on the recipient’s official transcript.

The Honors Foreign Language Certificate can be earned in addition to other kinds of Honors certificates. Honors courses taken in the sequence leading to the Honors Foreign Language Certificate can also be applied toward those required for other forms of Honors recognition.

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FOREIGN LANGUAGE CERTIFICATES FOR ACCOUNTING, BUSINESS ADMINISTRATION AND ECONOMICS STUDENTS

The (Honors) Foreign Language Certificate Program is intended to enhance the international dimension of the Bachelor’s degree in Accounting, Business Administration, or Economics. To earn a Bachelor’s degree in Accounting, Business Administration, or Economics with a Foreign Language Certificate or an Honors Foreign Language Certificate in German, French, or Spanish, a student is required to complete a designated sequence of four courses at the 200 and 300-levels. This is accomplished through a combination of two courses taken during Winter Session in Germany, France, Spain, or Costa Rica, and two courses taken on the Delaware campus. The Winter Session courses must be taken first, followed by the courses offered on the Delaware campus.

**German Courses**

Winter Session in Bayreuth, Germany:  
- GRMN 206 Culture through Conversation: 3 CREDITS  
- GRMN 208 Contemporary Germany I: 3 CREDITS

Delaware Campus:  
- GRMN 250 Introduction to Business German: 3 CREDITS  
- GRMN 325 German Civilization and Culture: 3 CREDITS

**French Courses**

Winter Session in Caen, France:  
- FREN 206 Culture through Conversation: 3 CREDITS  
- FREN 208 Contemporary France I: 3 CREDITS

Delaware Campus:  
- FREN 250 Introduction to Business French: 3 CREDITS  
- FREN 325 French Civilization I: 3 CREDITS  
- or FREN 326 French Civilization II: 3 CREDITS  
- or FREN 453 French Civilization III: 3 CREDITS

**Spanish Courses (Spain)**

Winter Session in Granada, Spain:  
- SPAN 206 Culture through Conversation: 3 CREDITS  
- SPAN 208 Contemporary Spain I: 3 CREDITS

Delaware Campus:  
- SPAN 250 Introduction to Business Spanish: 3 CREDITS  
- SPAN 325 Spanish Civilization and Culture: 3 CREDITS

**Spanish Courses (Latin America)**

Winter Session in San José, Costa Rica:  
- SPAN 206 Culture through Conversation: 3 CREDITS  
- SPAN 207 Contemporary Latin America I: 3 CREDITS

Delaware Campus:  
- SPAN 250 Introduction to Business Spanish: 3 CREDITS  
- SPAN 326 Latin American Civilization and Culture: 3 CREDITS

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Foreign Language Certificate: To earn a Bachelor’s degree in Accounting, Business Administration, or Economics with a Foreign Language Certificate in German, French, or Spanish, a student is required to complete the designated sequence of four 200 and 300-level German, French, or Spanish courses (listed above) with no grade below a C.

Honors Foreign Language Certificate: To earn a Bachelor’s degree in Accounting, Business Administration, or Economics with an Honors Foreign Language Certificate, the student must:

- Complete the designated sequence of four courses at the 200 and 300-levels in German, Spanish, or French listed above with no grade below a B-.
- Take all four of these courses for Honors credit.
- Achieve a 3.0 cumulative grade index by the time of graduation.

Students who have successfully completed the above requirements will be awarded an Honors Foreign Language Certificate that will be presented during an appropriate Honors ceremony and recorded on the recipient’s official transcript.

The Honors Foreign Language Certificate can be earned in addition to other kinds of Honors certificates. Honors courses taken in the sequence leading to the Honors Foreign Language Certificate can also be applied toward those required for other forms of Honors recognition.

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FOREIGN LANGUAGE CERTIFICATES FOR ENGINEERING STUDENTS

The Foreign Language Certificate Program is intended to enhance the Bachelor’s degree in Engineering by adding the increasingly crucial international dimension. To earn a Bachelor’s degree in Engineering with a Foreign Language Certificate or an Honors Foreign Language Certificate in German, the student is required to complete the four courses listed below, the first two of which must be taken during Winter Session in Germany, followed by two courses on the Delaware campus.

**Winter Session in Bayreuth, Germany:**
- GRMN 206 Culture through Conversation: 3 CREDITS
- GRMN 208 Contemporary Germany I: 3 CREDITS

**Delaware Campus:**
- GRMN 240 German Culture and Technology: 3 CREDITS
- GRMN 325 German Civilization and Culture: 3 CREDITS

Foreign Language Certificate: To earn a Bachelor’s degree in Engineering with a Foreign Language Certificate in German, the student is required to complete the designated sequence of courses listed above with no grade below a C.

Honors Foreign Language Certificate: To earn a Bachelor’s degree in Engineering with an Honors Foreign Language Certificate, the student must:

- Complete the designated sequence of courses listed above with no grade below a B-.
- Take all four of these courses for Honors credit.
- Achieve a 3.0 cumulative grade index by the time of graduation.

Honors Foreign Language Certificates will be awarded at an appropriate Honors ceremony and recorded on the recipient’s official transcript. The Honors Foreign Language Certificate can be earned in addition to other kinds of Honors certificates. Honors courses taken in the sequence leading to the Honors Foreign Language Certificate can also be applied toward those required for other forms of Honors recognition.
RESIDENCY REQUIREMENT

At least 15 hours of courses acceptable for credit in the major language and literature, including at least 6 credits at the 400-level, must be taken on campus or as part of a semester abroad program sponsored by the Department of Foreign Languages and Literatures. In the case of the three- and four-languages majors, at least 12 of the hours must be taken in Language One on campus or as part of a semester abroad program sponsored by the Department of Foreign Languages and Literatures.

MISCELLANY

Special Interest Housing: Foreign language students who wish to practice their linguistic skills in an informal setting may elect to live in a residence hall housing students with a special interest in French, German, Russian or Spanish language and culture. In addition to providing an opportunity for daily conversation in the foreign language, these residences sponsor relevant cultural events.

Credit by Examination: Students may receive credit by examination for language courses at the 200-level and above. The normal prerequisite is foreign study. Native speakers may not receive credits for courses in conversation.

Language Proficiency: For information concerning language proficiency see Requirements for the Degree of Bachelor of Arts, under College of Arts and Sciences.

Waivers or Substitutions: Waivers or substitutions for any requirements may be requested by seeking recommendation of the advisor and approval of the department chair.

MINORS

Foreign Language Minors: A minor in a foreign language requires a minimum of 18-21 credits (at the 200 level or above), as follows:

FRENCH: 18 credits above the 100-level including FREN 201 or 202, FREN 301 and 302, one course at the 300 or 400-level, and one other 400-level course

GERMAN: 18 credits above the 100-level including GRMN 311 or 312, one other 300-level course, one 400-level literature course, and one other 400-level course.

ITALIAN: 18 credits composed of ITAL 211 or 212; two additional courses at the 200, 300 or 400-level; one 300-level literature course; one 300 or 400-level course; and one 400-level course.

JAPANESE: 18 credits composed of 15 credits of Japanese at the 200 level or above 6 of which must be at the 300-level and above; and one of the following: JAPN 208 (Contemporary Japan I), FLLT 328 (Topics: Japanese Literature in Translation), or FLLT 380 (Topics: Japanese Culture in Translation)

RUSSIAN: 18 credits composed of two Russian courses at the 200-level; three courses at the 300 or 400-level, one of which must be a 400-level course; and 3 credits of related work (e.g., Russian history, political science, art, music, etc.).

SPANISH: 21 credits including SPAN 200, SPAN 201 and an additional 200-level course; two 300-level courses (one must be a Survey of Literature) and two 400-level courses (one must be a literature course).

CLASSICS: 18 credits including 12 credits in Latin and/or Greek at or above the 200-level and 6 credits in FLLT courses, with one course at or above the 300-level.

An advisor on minors for each language will help students tailor the chosen minor program to their needs.

Foreign Language Studies Minors: The Foreign Language Studies (FLS) minor (in French, German or Spanish) requires participation in a UD Department of Foreign Languages and Literatures sponsored semester abroad program. See the Foreign Languages and Literatures Study Abroad Coordinator for details and prerequisites.

Credit requirements for the FLS minors are as follows:

FRENCH STUDIES MINOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 2xx, 3xx, 4xx</td>
<td>6</td>
</tr>
<tr>
<td>FREN 306 or 406</td>
<td>3</td>
</tr>
<tr>
<td>FREN 308</td>
<td>3</td>
</tr>
<tr>
<td>Three of: ARTH 339, FREN 355, FREN 455, HIST 339, POSC 441</td>
<td>9</td>
</tr>
</tbody>
</table>

Minors in French Studies are required to take at least one literature course at the 300-level or above.

Note: A student cannot receive both a French Minor and a French Studies Minor.

GERMAN STUDIES MINOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRMN 2xx, 3xx, 4xx</td>
<td>6</td>
</tr>
<tr>
<td>GRMN 306 or 406</td>
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<td>GRMN 308</td>
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<tr>
<td>Three of: ARTH 339, GRMN 355, GRMN 455, HIST 339, POSC 441</td>
<td>9</td>
</tr>
</tbody>
</table>

Minors in German Studies are required to take at least one literature course at the 300-level or above.

Note: A student cannot receive both a German Minor and a German Studies Minor.

SPANISH STUDIES MINOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 2xx, 3xx, 4xx</td>
<td>6</td>
</tr>
<tr>
<td>SPAN 306 or 406</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 308</td>
<td>3</td>
</tr>
<tr>
<td>Three of: ARTH 339, SPAN 355, SPAN 455, HIST 339, POSC 441</td>
<td>9</td>
</tr>
</tbody>
</table>

Minors in Spanish Studies are required to take at least one literature course at the 300-level or above.

Note: A student cannot receive both a Spanish Minor and a Spanish Studies Minor.

GEOGRAPHY

Geographers investigate processes that explain the location of human and natural phenomena, as well as the interactions between people and their environment. A broad range of interests characterizes geography and reflects its position simultaneously in the natural sciences, social sciences, and humanities.

Students who major in geography may, if they choose, specialize. The department has an excellent program in climatology, for instance, where research may be undertaken through its Center for Climatic Research. Other areas include environmental studies, biogeography, conservation, cultural-historical geography, urban geography and geomorphology. Computer, cartographic and other skills also are studied by geography majors. Students are required to take an introductory sequence of courses to provide a common background for all majors. During the senior year, majors may, at their option, undertake a research paper under the direction of their program advisors. A detailed brochure describing the geography program and requirements is available upon request from the department office.

DEGREE: BACHELOR OF ARTS

MAJOR: GEOGRAPHY

CREDITS

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Six credits selected from the following natural geography courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 101 Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 152 Climate and Life</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 206 Physical Geography: Topography-Soils</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 220 Meteorology</td>
<td>3</td>
</tr>
</tbody>
</table>
GEOG 230 Humans and the Earth Ecosystem 3
GEOG 235 Conservation of Natural Resources 3
GEOG 255 Applied Climatology 3
Six credits selected from the following human geography courses:
GEOG 102 Human Geography 3
GEOG 120 World Regional Geography 3
GEOG 203 Cultural Geography 3
GEOG 210 Economic Geography 3
GEOG 225 Historical Geography of the United States 3
GEOG 236 Conservation of Global Issues 3
Three credits selected from the following methods courses:
GEOG 250 Computer Methods in Geography 4
GEOG 270 Map Communication and Design 3
GEOG 272 Map and Air Photo Interpretation 3
Nine credits selected from geography courses at the 300 or 400-level (GEOG 445 strongly recommended)
Six elective credits selected from geography courses at the 200, 300, or 400-level

ELECTIVES
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: GEOGRAPHY EDUCATION

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
Six credits selected from the following natural geography courses:
GEOG 101 Physical Geography 3
GEOG 152 Climate and Life 4
GEOG 206 Physical Geography: Topography-Soils 3
GEOG 220 Meteorology 3
GEOG 230 Humans and the Earth Ecosystem 3
GEOG 235 Conservation of Natural Resources 3
GEOG 255 Applied Climatology 3
Six credits selected from the following human geography courses:
GEOG 102 Human Geography 3
GEOG 120 World Regional Geography 3
GEOG 203 Cultural Geography 3
GEOG 210 Economic Geography 3
GEOG 225 Historical Geography of the United States 3
GEOG 236 Conservation of Global Issues 3
Three credits selected from the following methods courses:
GEOG 250 Computer Methods in Geography 4
GEOG 270 Map Communication and Design 3
GEOG 272 Map and Air Photo Interpretation 3
Nine credits selected from geography courses at the 300 or 400-level (GEOG 445 strongly recommended)
Six elective credits selected from geography courses at the 200, 300, or 400-level

Within the College
ECON 151 Introduction to Microeconomics 3
ECON 152 Introduction to Macroeconomics 3
POSC 105 The American Political System 3
HIST 104 World History to 1648 3
HIST 206 United States History since 1865 3
Additional credits to total 27 with nine credits in each discipline
(Economics, Political Science, and History)

Professional Studies
EDST 201 Education in a Multicultural Society 3
EDST 304 Educational Psychology - Social Aspects 3
EDST 305 Educational Psychology - Cognitive Aspects 3
HIST 491 Planning a Course of Instruction 3
HIST 493 Seminar: Problems in Teaching History and Social Sciences 3
EDST 420 Reading in the Content Areas 1
EDDV 400 Student Teaching 9

To be eligible to student teach, Geography Education students must have a g p a. of 3.0 in their major and an overall g p a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF 124

INTERDEPARTMENTAL AND DOUBLE MAJORS

A minimum of 18 credits in course work in geography must be completed for a minor. Nine credits must be taken at the foundation level, with three credits from each of the foundation areas (Natural Geography, Human Geography, Methods). Nine more geography credits must be taken at the 300-400-level.

Students may also declare a double major with another department in the College of Arts and Science, provided they satisfy the requirements of both geography and their second major field. Departmental requirements for the double major are identical to those for the major.

REQUIREMENTS FOR THE MINOR IN GEOGRAPHY

A minimum of 18 credits of course work in geography must be completed for a minor. Nine credits must be taken at the foundation level, with three credits from each of the foundation areas (Natural Geography, Human Geography, Methods). Nine more geography credits must be taken at the 300-400-level.

BACHELOR OF ENVIRONMENTAL SCIENCE

Complementing the B.A. programs in Geography, the Geography Department, in cooperation with the Geology Department and the Department of Biology, offers a B.S. degree in Environmental Science. The program emphasizes a broad scientific understanding of the character, function, and analysis of environmental systems. It is hoped that Environmental Science B.S. students will be able to contribute to society's understanding of and solutions to problems that arise from the human occupation and use of the environment. Curriculum and requirements associated with the Environmental Science B.S. program appear below.

DEGREE: BACHELOR OF SCIENCE
MAJOR: ENVIRONMENTAL SCIENCE

CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20)

COLLEGE REQUIREMENTS

Skill Requirements
Writing: (minimum grade C) 3
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 59.)

Foreign Language: 0-12
Completion of the intermediate-level course (107 or 112 or 214) in a given language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination.

Breadth Requirements: See page 60
Nine credits are required in each of the following groups: 27
Group A
Understanding and appreciation of the creative arts and humanities. At least two areas must be represented

Group B
The study of culture and institutions over time. At least two areas must be represented.

Group C
Empirically based study of human beings and their environment. At least two areas must be represented.

MAJOR REQUIREMENTS

Within the Cooperating Departments

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 107</td>
<td>General Geology</td>
<td>4</td>
</tr>
<tr>
<td>BISC 207, BISC 208</td>
<td>Introductory Biology I and II</td>
<td>8</td>
</tr>
<tr>
<td>GEOG 220</td>
<td>Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Computer Methods in Geography</td>
<td>4</td>
</tr>
<tr>
<td>BISC 302</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 312</td>
<td>General Ecology Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 412</td>
<td>Physical Climatology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 414</td>
<td>Quaternary Geology and Geochronology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 450, GEOL 450 or BISC 450 Proseminar in Environmental Science</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Two additional courses from within one of the following three areas of concentration:

Atmospheric Environment

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 343</td>
<td>Climatic Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 420</td>
<td>Atmospheric Physics</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 451</td>
<td>Microclimatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 453</td>
<td>Synoptic Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 455</td>
<td>Water Budget in Environmental Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Biological Environment

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISC 306</td>
<td>General Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 494</td>
<td>Experimental Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 495</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BISC 637</td>
<td>Population Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 641</td>
<td>Microbial Ecology</td>
<td>3</td>
</tr>
</tbody>
</table>

Geology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 203</td>
<td>Mineralogy and Crystalllography</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 303</td>
<td>Sedimentology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 304</td>
<td>Stratigraphy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 305</td>
<td>Structural Geology</td>
<td>3</td>
</tr>
</tbody>
</table>

Three additional courses taken from the following list or from the courses listed under the three areas of concentration above. At least one course must be outside the chosen area of concentration. For students following the Geology track, two courses must be 400-level geology courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISC 301</td>
<td>Molecular Biology of the Cell</td>
<td>4</td>
</tr>
<tr>
<td>BISC 321</td>
<td>Environmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 324</td>
<td>Invertebrate Zoology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 371</td>
<td>Introduction to Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BISC 408</td>
<td>Genetic Toxicology</td>
<td>2</td>
</tr>
<tr>
<td>BISC 660</td>
<td>Environmental Physics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 213</td>
<td>Elementary Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CIEG 331</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 152</td>
<td>Climate and Life</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 206</td>
<td>Topography and Soil</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 230</td>
<td>Humans and the Earth Ecosystem</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 235</td>
<td>Conservation of Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 236</td>
<td>Conservation: Global Issues</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 285</td>
<td>Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 272</td>
<td>Map and Air Photo Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 320</td>
<td>Water and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 330</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 342</td>
<td>Bioclimatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 351</td>
<td>Urban Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 357</td>
<td>Paleoecology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 372</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 423</td>
<td>Atmospheric Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 430</td>
<td>Conservation Forest Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 681</td>
<td>Remote Sensing of Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 204</td>
<td>Properties of Rocks and Minerals</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 402</td>
<td>History of the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 403</td>
<td>Regional Geology of North America</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 407</td>
<td>Igneous and Metamorphic Petrology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 411</td>
<td>Quantitative Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 412</td>
<td>Geophysical Approaches to Archaeology and History</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 421</td>
<td>Environmental and Applied Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 428</td>
<td>Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 431</td>
<td>Marine Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 452</td>
<td>Recent Sedimentary Environments</td>
<td>3</td>
</tr>
</tbody>
</table>

Within the College

Related Work

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 241</td>
<td>MATH 242, MATH 243 Analytic Geometry and Calculus</td>
<td>12</td>
</tr>
</tbody>
</table>

One of the following five courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 302</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 349</td>
<td>Elementary Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STAT 450</td>
<td>Statistics for Engineering &amp; Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>STAT 656</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 657</td>
<td>Statistics for Earth Sciences</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 402</td>
<td>History of the Earth</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 207</td>
<td>Fundamentals of Physics I</td>
<td>4</td>
</tr>
</tbody>
</table>

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ..................................... 127

GEOL 434 The Geology of Coasts .................................. 3
GEOL 446 General Geocchemy ..................................... 3
GEOL 460 Field Geology in the Western States .......... 3
M AST 200 Concepts in Oceanography .................. 3
PHYS 208 Fundamentals of Physics II .................. 4
PISC 204 Introduction to Soil Science ........... 4
POSC 350 Politics and the Environment ............ 3

Degree: Bachelor of Arts

Major: Geology

Curriculum

The Department of Geology offers B.A. degrees in geology (including a B.A. with a concentration in paleobiology) and in earth science education. The Department offers B.S. degrees in geology and geophysics (jointly with the Physics Department), and a minor in geology. Environmental Science majors can concentrate in geology while earning a B.S. in Environmental Science.

Advanced undergraduate geology students are encouraged to undertake research, under the supervision of the faculty, in areas such as geochemistry, geophysics, igneous and metamorphic petrology, micropaleontology and paleontology, mineralogy, paleomagnetism, sedimentary petrology, stratigraphy, and structural geology.

As an additional resource, the Department maintains close ties with the Delaware Geological Survey and with the College of Marine Studies.

In view of the close relationship between geology and other disciplines, interdepartmental and double majors are encouraged. Various interdisciplinary programs within the field of geology are also possible. Examples of such programs include paleobiology, geochemistry, and geophysics. Students interested in any of these programs should contact the Geology Department for information.

Degree: Bachelor of Arts

Major: Geology

Curriculum

The Department of Geology offers B.A. degrees in geology (including a B.A. with a concentration in paleobiology) and in earth science education. The Department offers B.S. degrees in geology and geophysics (jointly with the Physics Department), and a minor in geology.

Environmental Science majors can concentrate in geology while earning a B.S. in Environmental Science.

Advanced undergraduate geology students are encouraged to undertake research, under the supervision of the faculty, in areas such as geochemistry, geophysics, igneous and metamorphic petrology, micropaleontology and paleontology, mineralogy, paleomagnetism, sedimentary petrology, stratigraphy, and structural geology.

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Degree: Bachelor of Arts

Major: Geology

Curriculum

The Department of Geology offers B.A. degrees in geology (including a B.A. with a concentration in paleobiology) and in earth science education. The Department offers B.S. degrees in geology and geophysics (jointly with the Physics Department), and a minor in geology.

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Degree: Bachelor of Arts

Major: Geology

Curriculum

The Department of Geology offers B.A. degrees in geology (including a B.A. with a concentration in paleobiology) and in earth science education. The Department offers B.S. degrees in geology and geophysics (jointly with the Physics Department), and a minor in geology.

Environmental Science majors can concentrate in geology while earning a B.S. in Environmental Science.
Three credits of field geology (taught only in the summer):
GEOL 432 Recent Sedimentary Environment ........................................ 3.4
GEOL 460 Field Geology in the Western States .................................... 3.6.3.4

Within the College
Chemistry courses (CHEM 103-104) ..................................................... 6.2
Physics courses (PHYS 201-202) ....................................................... 8.3
Mathematics courses through college-level trigonometry ....................... 3.4

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ................................................. 124

DEGREE: BACHELOR OF ARTS
MAJOR: GEOLOGY
CONCENTRATION: PALEOBIOLOGY

CURRICULUM

Superior figures indicate year or years in which the course is normally taken, i.e., freshman year, sophomore year, etc.

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
GEOL 107 General Geology .......................................................... 4.1
GEOL 203 Mineralogy and Crystallography ...................................... 3.2
GEOL 204 Properties of Rocks and Minerals ...................................... 4.2
GEOL 301 Systematic and Evolutionary Paleontology ......................... 3.3
GEOL 303 Sedimentology .............................................................. 3.3
GEOL 304 Stratigraphy ................................................................. 3.3
GEOL 305 Structural Geology .......................................................... 3.4
GEOL 402 History of the Earth ....................................................... 3.4
GEOL 466 Independent Study .......................................................... 3.4

Three credits of field geology (taught only in the summer):
GEOL 432 Recent Sedimentary Environment ........................................ 3.4
GEOL 460 Field Geology in the Western States .................................... 3.6.3.4

Within the College
BISC 207 Introductory Biology I .................................................... 4.1
BISC 208 Introductory Biology II .................................................... 4.1
BISC 302 General Ecology ............................................................. 3.3
BISC 324 Vertebrate Zoology .......................................................... 4.2
BISC 442 Vertebrate Morphology (recommended) ................................ 3
BISC 495 Evolution ........................................................................... 3.4
STAT 201 Introduction to Statistics I .................................................. 3.4
STAT 202 Introduction to Statistics II ................................................ 3.4
CHEM 103 General Chemistry .......................................................... 3.2
CHEM 104 General Chemistry .......................................................... 3.2
MATH 115 Pre-calculus ...................................................................... 3.1

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ................................................. 124

DEGREE: BACHELOR OF SCIENCE
MAJOR: GEOLOGY

CURRICULUM

Superior figures indicate year or years in which the course is normally taken, i.e., freshman year, sophomore year, etc.

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C) ................. 3.1
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20). 3.6.3.4

COLLEGE REQUIREMENTS

Skill Requirements

Writing: (minimum grade C) .............................................................. 3.4

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 59.)

Foreign Language: ........................................................................... 0.12.4

Completion of the intermediate-level course (107 or 112 or 214) in a given language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination

Breadth Requirements [See page 60]

A total of eighteen credits from Groups A, B and C is required with six credits in each group. The six credits from each group could be from the same area:

Group A
Understanding and appreciation of the creative arts and humanities

Group B
The study of culture and institutions over time

Group C
Empirically based study of human beings and their environment

MAJOR REQUIREMENTS

Within the Department
GEOL 107 General Geology .......................................................... 4.1
GEOL 203 Mineralogy and Crystallography ...................................... 3.2
GEOL 204 Properties of Rocks and Minerals ...................................... 4.2
GEOL 301 Systematic and Evolutionary Paleontology ......................... 3.3
GEOL 303 Sedimentology .............................................................. 3.3
GEOL 304 Stratigraphy ................................................................. 3.3
GEOL 305 Structural Geology .......................................................... 3.4
GEOL 402 History of the Earth ....................................................... 3.4
GEOL 407 Igneous and Metamorphic Petrology .................................. 3.4
GEOL 452 Plate Tectonics and Geophysics ........................................ 3.3.4

Six credits from the following:
GEOL 460 Field Geology in the Western States .................................... 3.6.3.4
or
GEOL 432 Recent Sedimentary Environments ..................................... 3.3.4
Geology courses (400 level) .............................................................. 9.3.4

Within the College
Related Work
MATH 241 Analytic Geometry and Calculus A ...................................... 4.1
CHEM 103 General Chemistry .......................................................... 3.2
CHEM 104 General Chemistry .......................................................... 4.2
PHYS 201 Introductory Physics I ....................................................... 4.3

Two of the following:
MATH 242 Analytic Geometry and Calculus B ...................................... 4.1
PHYS 202 Introductory Physics II ..................................................... 4.3
STAT 205 Statistical Methods ............................................................ 4.2.4

Two of the following:
BISC 207 Introductory Biology I .................................................... 4.2.4
BISC 208 Introductory Biology II ..................................................... 4.2.4
Elective supporting science course ..................................................... 3.2.4

(see department chair for a list of approved courses)

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ................................................. 125

REQUIREMENTS OF THE MINOR IN GEOLOGY

The minor consists of at least 18 credit hours in geology. The requirements are: GEOL 107; GEOL 203; at least two of the following: GEOL 204, 301, 303, 304, 305; any 400-level geology course or courses must be used to obtain the remaining credits to reach a total of 18.

DEGREE: BACHELOR OF ARTS
MAJOR: EARTH SCIENCE EDUCATION

CURRICULUM

Superior figures indicate year or years in which the course is normally taken, i.e., freshman year, sophomore year, etc.

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
GEOL 105 General Geology .......................................................... 4.1
GEOL 107 General Geology .......................................................... 4.1
HISTORY • COLLEGE OF ARTS AND SCIENCE

BACHELOR OF SCIENCE DEGREE IN GEOPHYICS

The Geology Department, jointly with the Physics Department, offers a B.S. degree in geophysics. Geophysics involves the use of seismic, gravity, magnetic, and electrical methods to study the structure and tectonic evolution of the earth. The geophysics program is designed to produce students well-grounded in both geology and physics, but specifically trained in geophysical principles and techniques.

DEGREE: BACHELOR OF SCIENCE
MAJOR: GEOPHYSICS

CURRICULUM

Superior figures indicate year or years in which the course is normally taken, i.e., freshman year, sophomore year, etc.

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)
Three credits in an approved course or courses stressing multicultural, ethnical, and/or gender-related content (see p. 20)

COLLEGE REQUIREMENTS

Skill Requirements

Writing: (minimum grade C-) A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester’s registration booklet.

Breadth Requirements (See page 60)
A total of eighteen credits from Groups A, B, and C is required with six credits in each group. The six credits from each group could be from the same area.

Group A
Understanding and appreciation of the creative arts and humanities

Group B
The study of culture and institutions over time

Group C
Empirically based study of human beings and their environment

MAJOR REQUIREMENTS

Within the Department

GEOL 106 General Geology
GEOL 101 Physical Geography
GEOL 203 Mineralogy and Crystallography
GEOL 220 Meteorology
GEOL 235 Conservation of Natural Resources
GEOL 303 Sedimentology
GEOL 343 Climatic Geomorphology

or

GEOL 255 Advanced Climatology

PHYS 133 Introduction to Astronomy
PHYS 201 Introductory Physics I
PHYS 202 Introductory Physics II
CHEM 103 General Chemistry
BISC 195 Biological Evolution
MATH 221 Calculus I

Three credits from the following:

GEOL 432 Recent Sedimentary Environments
GEOL 460 Field Geology in the Western States

External to the College

MATH 241 Analytic Geometry and Calculus A

Professional Studies

EDST 201 Education in a Multicultural Society
EDST 304 Educational Psychology - Social Aspects
EDST 305 Educational Psychology - Cognitive Aspects
SCEN 491 Teaching Science in Secondary Schools
EDST 420 Reading in the Content Area
EDSV 400 Student Teaching

To be eligible to student teach, Earth Science Education students must have a g.p.a. of 2.75 in their geology and geography courses and an overall g.p.a. of 2.5. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF: 124

HISTORY

The History Department offers several options to its students. In addition to the regular major, students can choose a concentration in American, European, Global, or Policy history. In conjunction with the College of Education, it offers a History Education program for those choosing a career as secondary school social studies teachers. Collaboration with the Department of Foreign Languages and Literatures has resulted in a major combining languages with the history of the regions in which those languages are spoken. Together with the Department of English, the History Department administers a History/Journalism major. The department also maintains an advisory program for prelaw students majoring in history. The department encourages interdepartmental or double majors that enable a student to develop competence in two areas, such as history and art history, or history and literature. An Honors Degree as well as a Degree with Distinction are also possible options. An advisor in the History Department can provide details.

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

HIST 101 Western Civilization to 1668
HIST 102 Western Civilization: 1668 to the Present
HIST 269 Seminar

History course on the history of Asia, Africa, Latin America, or the Ancient World

CREDITS TO TOTAL A MINIMUM OF: 125
History courses at or above the 300-level ............................................. 12
History seminar at the 400-level or above ............................................. 3
(excluding HIST 491 and 493 and Independent Study)
History course .................................................................................. 3

ELECTIVES
After required courses are completed, sufficient elective credits must be
taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ............................................... 124

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY
CONCENTRATION: AMERICAN HISTORY
CURRICULUM
See page 56 for University and College requirements.
MAJOR REQUIREMENTS

Within the Department
HIST 101 Western Civilization to 1648 ............................................. 3
HIST 102 Western Civilization: 1648 to the Present ......................... 3
HIST 268 Seminar ........................................................................... 3
History course on the history of Asia, Africa, Latin America,
or the Ancient World ........................................................................... 3
Seven courses in the field of emphasis. With written approval of the
advisor, a student may take two of these courses outside the Department of History .. 21
History seminar at the 400-level or above ............................................. 3
(excluding HIST 491 and 493 and Independent Study)

ELECTIVES
After required courses are completed, sufficient elective credits must be
taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ............................................... 124

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY
CONCENTRATION: EUROPEAN HISTORY
CURRICULUM
See page 56 for University and College requirements.
MAJOR REQUIREMENTS

Within the Department
HIST 101 Western Civilization to 1648 ............................................. 3
HIST 102 Western Civilization: 1648 to the Present ......................... 3
HIST 268 Seminar ........................................................................... 3
History course on the history of Asia, Africa, Latin America,
or the Ancient World ........................................................................... 3
Seven courses in the field of emphasis. With written approval of the
advisor, a student may take two of these courses outside the Department of History .. 21
History seminar at the 400-level or above ............................................. 3
(excluding HIST 491 and 493 and Independent Study)

ELECTIVES
After required courses are completed, sufficient elective credits must be
taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ............................................... 124

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY
CONCENTRATION: GLOBAL HISTORY
CURRICULUM
See page 56 for University and College requirements.
MAJOR REQUIREMENTS

Within the Department
HIST 101 Western Civilization to 1648 ............................................. 3
HIST 102 Western Civilization: 1648 to the Present ......................... 3
HIST 268 Seminar ........................................................................... 3
History course on the history of Asia, Africa, Latin America,
or the Ancient World ........................................................................... 3
Seven courses in the field of emphasis. With written approval of the
advisor, a student may take two of these courses outside the Department of History .. 21

ELECTIVES
After required courses are completed, sufficient elective credits must be
taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ............................................... 124

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY
CONCENTRATION: JOURNALISM
CURRICULUM
See page 56 for University and College requirements.
MAJOR REQUIREMENTS

Within the Department
HIST 101 Western Civilization to 1648 ............................................. 3
HIST 102 Western Civilization: 1648 to the Present ......................... 3
HIST 268 Seminar ........................................................................... 3
History course on the history of Asia, Africa, Latin America,
or the Ancient World ........................................................................... 3
History courses at or above the 300-level ............................................. 12
History seminar at the 400-level or above ............................................. 3
(excluding HIST 491 and 493 and Independent Study)
History course .................................................................................. 3

Within the College
ENGL 307 New Writing and Editing .................................................. 3
Nine credits chosen from the following courses: ........................... 9
ENGL 308 Reporter's Practice ......................................................... 3
ENGL 309 Featured and Magazine Writing ....................................... 3
ENGL 310 Copy Editing and Layout .................................................. 3
ENGL 407 Advanced Reporting ....................................................... 1-3
ENGL 409 Topics in Journalism ....................................................... 3
ENGL 466 Independent Study .......................................................... 1-6

ELECTIVES
After required courses are completed, sufficient elective credits must be
taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ............................................... 124

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY
EDUCATION
CURRICULUM
See page 56 for University and College requirements.
MAJOR REQUIREMENTS

Within the Department
HIST 101 Western Civilization to 1648 ............................................. 3
HIST 102 Western Civilization: 1648 to the Present ......................... 3

92

COLLEGE OF ARTS AND SCIENCE • HISTORY
HIST 103 World History to 1648 3
HIST 104 World History to Present 3
HIST 268 Seminar 3

Depending on its emphasis, this seminar course can count as three of the required credits in European, American, or Third World History. The total number of credits required in the major is 36.

History courses on the history of Europe including:
- Ancient Greece and Rome 6
- History courses on the history of the United States 12
- History courses on the history of Asia, Africa, or Latin America 6

Course work must include a three credit History seminar at or above the 400 level (excluding HIST 491, 493, and independent study) and twelve additional credits at or above the 300 level.

Within the College:
- ECON 151 Introduction to Microeconomics 3
- ECON 152 Introduction to Macroeconomics 3
- POSC 105 The American Political System 3
- GEOG 120 World Regional Geography 3
- Additional credits to total 27 with nine credits in each discipline (Economics, Political Science, and Geography) 15

Professional Studies:
- EDST 201 Education in a Multicultural Society 3
- EDST 204 Educational Psychology – Social Aspects 3
- EDST 205 Educational Psychology – Cognitive Aspects 3
- HIST 491 Planning a Course of Instruction (minimum grade C) 3
- HIST 493 Seminar: Problems in Teaching History and Social Sciences (Spring semester only) 3
- EDST 420 Reading in the Content Areas 3
- EDDY 400 Student Teaching 9

CREDITS TO TOTAL A MINIMUM OF ....................... 124

To be eligible to student teach, History Education students must have a g.p.a. of 3.0 in their major and an overall g.p.a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student teaching application and other information concerning student teaching policies.

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY/CLASSICS, FRENCH, GERMAN, RUSSIAN, SPANISH

CREDITS

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department:
- HIST 101 Western Civilization to 1648 3
- HIST 102 Western Civilization: 1648 to the Present 3
- Five 300-level courses, at least two of which must deal with countries that use the chosen foreign language 15
- History seminar at the 400-level or above 3 (excluding HIST 491 and 493 and Independent Study)

Within the Department of Foreign Languages and Literatures:

Classics:
- Civilization: Two classical civilization (or culture) courses:
  - e.g., FLIT 202 (Biblical and Classical Literature) and FLIT 316 (Mythology) 6
- Literature: Either 9 credits of Latin at the 200-level or above and 3 credits of Latin at the 300-level or above, or GREEK 213 and GREEK 214 and 6 credits of Latin at the 200-level or above 12

French:
- Civilization: FREN 325 (French Civilization I), or FREN 326 (French Civilization II) 3
- Literature: FREN 301 (Introduction to French Literature: Prose) and FREN 302 (Introduction to French Literature: Poetry and Theatre) 6
- 400-level literature course 3
- Two courses at the 200, 300, or 400-level 6

German:
- Civilization: GRMN 325 (German Civilization and Culture) 3
- Literature: GRMN 311 (Introduction to German Literature I) and GRMN 312 (Introduction to German Literature II) 6
- 400-level literature course 3
- Two courses at the 200, 300, or 400-level 6

Spanish:
- Students must choose either the Peninsular (325, 301, 302) or the Latin American (326, 303, 304) track
- Civilization: SPAN 325 (Spanish Civilization and Culture) or SPAN 326 (Latin American Civilization and Culture) 3
- Literature: SPAN 301 (Survey of Spanish Literature) and SPAN 302 (Survey of Spanish Literature) 6
- Two courses at the 200, 300, or 400-level 6

ELECTIVES:

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. CREDITS TO TOTAL A MINIMUM OF .......................... 124

REQUIREMENTS FOR A MINOR IN HISTORY

A student may minor in history by taking 15 credits: two courses in any combination from HIST 101, 102 (Western civilization), 205, 206 (American history), and the remaining 9 credits at or above the 300-level.

Many history courses fulfill Group B requirements of the College of Arts and Science. HIST 327 fulfills a Group C requirement.

INTERNATIONAL RELATIONS

(See Political Science)

IRISH STUDIES

A student may minor in Irish Studies by earning 15 credits in recommended courses, all at or above the 300-level. Required courses include ENGL 351 and HIST 373. For further information, contact Professor Bonnie Scott at (302) 831-6230.

JEWISH STUDIES

Jewish Studies developed alongside and within Western and non-Western civilizations, in every place where Jewish people and Jewish culture have existed. The minor involves the study of the texts, histories, and culture of the Jewish people. As an academic discipline, Jewish Studies concentrates on its own inner continuities, as well as the ways it has been affected, and been affected by, its host cultures.

REQUIREMENTS FOR THE MINOR IN JEWISH STUDIES

The interdisciplinary minor in Jewish Studies requires 15 credits of Jewish Studies courses (all of which are cross-listed with other departments, such as history or philosophy or English), including the following:
- JWST/ENGL 349 Introduction to Jewish Sources 3
- JWST/PHIL 208 Introduction to Jewish Philosophy 3

The remaining 9 credits may be distributed among the other Jewish Studies courses, including independent studies (per approval of the Program Director). Only 3 credits of Hebrew language can count towards the minor. For further information, contact Professor Sara R. Horowitz, Program Director, (302) 831-6731.
JOURNALISM

The journalism program is centered in the Department of English but reaches beyond it. There is no separate journalism major, but there are concentrations in journalism for English and history majors. Students majoring in other areas such as political science or communication often take journalism courses to enhance their degree programs. The journalism courses—up to 15 credits not including internships—may also be used as the organizing principle for a Bachelor of Arts in Liberal Studies degree or an Interdepartmental Major. The courses are primarily practice oriented and are aimed at preparing the interested student to be well qualified for a position in some phase of reporting, writing, or editing for newspapers, magazines, radio, or television. For details, see English in this catalog.

LATIN AMERICAN STUDIES

The major in Latin American Studies is designed to give students a comprehensive picture of Latin American history, politics, geography, anthropology, language, and literature. The program is interdisciplinary and allows certain freedom in individualizing the selection of courses to meet students' interests and needs.

Many career opportunities are open to students who major in Latin American Studies. Graduates of the program can work in governmental services and other fields in which it is important to work with Latin American topics. There is also employment in research and teaching, libraries, public relations, public administration, journalism and publishing. In addition, Latin American Studies graduates will have an unusually good background for advanced study in international business or international law. For information, contact Professor Juan Villamarin, 113 Ewing Hall (302) 831-1851.

DEGREE: BACHELOR OF ARTS
MAJOR: LATIN AMERICAN STUDIES

CURRICULUM

See page 56 for University and College requirements. Note: The Foreign Language College requirement must be fulfilled in Spanish. Completion of PORT 107 is also highly recommended.

MAJOR REQUIREMENTS

Within the College

Required courses:

- ANTH 265: High Civilizations in the Americas — 3
- ANTH 375: Peoples and Cultures of Modern Latin America — 3
- or ANTH 380: Peoples and Cultures of Mexico and Central America — 3
- GEOG 226: Geography of Latin America — 3
- HIST 135: Introduction to Latin American History — 3
- POSC 426: Latin American Political Systems — 3
- SPAN 326: Latin American Civilization and Culture — 3
- SPAN 303: Survey of Spanish-American Literature I — 3
- or SPAN 304: Survey of Spanish-American Literature II — 3
- and One of the following seven courses: — 3
  - ANTH 332: Prehistory of South America
  - ANTH 337: Peoples of the Caribbean
  - ANTH 338: Arts and Crafts of Native South America
  - HIST 334: History of Mexico
  - HIST 430: 20th Century Latin American Revolutions
  - HIST 477: Studies in Latin American History
- POSC 431: Latin American Politics: Countries — 3
- POSC 450: Problems in Latin American Politics
- or One of the following three courses: — 3
  - SPAN 415: Latin American Literature in Its Political Context
  - SPAN 430: Latin American Novel and Cinema
  - SPAN 443: Mexican Literature

Suggested Course:

- ECON 311: Economics of Developing Countries

[Prerequisites: ECON 121, ECON 122]

ELECTIVES

After required courses are completed, sufficient elective credits must be taken, in consultation with the student's academic advisor, to meet the minimum credit requirement for the degree.

STUDY ABROAD

Latin American Studies majors should plan to attend a semester or winter session at a Latin American site

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR A MINOR IN LATIN AMERICAN STUDIES

Purpose. This is an interdisciplinary program designed to provide graduates with an organized focus for their interests in Latin America. The program is designed to enhance, rather than substitute for, a student's disciplinary major.

Program Requirements. A minimum of 18 credits is required from the following courses, selected from at least four departments.

- HIST 135, 334, 430, 477
- GEOG 226
- SPAN 303, 304, 326, 415, 430, 441, 443
- ANTH 265, 323, 327, 330, 337, 338, 375, 380
- POSC 426, 431, 450

Language Requirement. In addition to the 18-credit minimum, students must complete SPAN 107 or demonstrate equivalent proficiency on the placement test. Equivalent competence in Portuguese will be allowed. The study of both languages is strongly encouraged.

STUDY ABROAD. Latin American Studies minors should plan to attend a semester or winter session at a Latin American site.

Substitutions may be made for the above specified courses, with permission from the Coordinator of the Latin American Studies Program, and only so long as the same disciplinary distribution is maintained.

LEGAL STUDIES

The law is an essential topic in philosophic, social science, and public policy inquiry. Courses that are substantially concerned with law are available in a variety of disciplines including political science, sociology, philosophy, history, business, communication, economics, and psychology. This program, which allows students to minor in Legal Studies, provides students with the opportunity to explore the law from an interdisciplinary perspective within the framework of the liberal arts curriculum.

The program supplies coherence and guidance in the study of law in at least four ways: First, each Legal Studies minor is provided with an advisor who guides the student in constructing a coherent program. Second, the minor provides students with an opportunity to examine legal phenomena from a variety of discipline perspectives. Third, the program offers both a substantive introduction to law and an interdisciplinary introductory course in legal studies. Finally, it offers an interdisciplinary culmination by way of a senior seminar that will require a research paper.

This program is designed for any undergraduate student who is interested in examining the law from a variety of perspectives. Legal studies is not a "pre-law" program, and it does not offer para-legal training. It is, however, a suitable minor for those who plan to pursue professional training.

In addition to offering a minor in Legal Studies, the program offers faculty seminars, lectures, and films. For information, contact Professor Valerie Hans, 331 Smith Hall (302) 831-8231.
REQUIREMENTS FOR A MINOR IN LEGAL STUDIES

CURRICULUM CREDITS
POSC 380 Introduction to Law .......................................................... 3
LEST 301 Introduction to Legal Studies .............................................. 3
LEST 401 Senior Seminar ................................................................. 3

Three courses from the following list. At least two of these courses must be from outside the requirements of the student’s major and outside his or her major department. These two courses must be chosen from two different departments.

Accounting
ACCT 350 Business Law ................................................................. 3
ACCT 351 Business Law ................................................................. 3
ACCT 352 Law and Social Issues in Business ........................................ 3

Communication
COMM 365 Legal Issues of the Mass Media ....................................... 3

Criminal Justice
CRJU 202 Problems of Criminal Justice ........................................... 3
CRJU 203 Problems of Corrections .................................................. 3
CRJU 320 Introduction to Criminal Law .......................................... 3
CRJU 346 Psychology and the Law (same as PSYC 346) ...................... 3
CRJU 347 The Jury: Guilty or Not Guilty ......................................... 3
CRJU 375 Criminal Procedure ...................................................... 3
CRJU 423 Criminal Law and Social Policy ....................................... 3
CRJU 428 Corporate Crime (same as SOCI 428) ................................ 3
CRJU 450 Prisoners and the Law .................................................... 3
CRJU 456 Lawyers and Society (same as SOCI 456) ......................... 3

Economics
ECON 306 Economic Theory of Politics (same as POSC 306) ................ 3
ECON 360 Government Regulation of Business .................................. 3
ECON 408 Economics of Law ........................................................... 3
ECON 461 Industrial Organization and Antitrust ............................... 3
ECON 483 Economics of Regulation .............................................. 3

History
HIST 309 U.S. Business and Political Economy ............................... 3
HIST 376 English Legal and Constitutional History .......................... 3

Philosophy
PHIL 202 Contemporary Moral Problems ....................................... 3
PHIL 308 Justice and Equality ....................................................... 3
PHIL 446 Philosophy of Law .......................................................... 3

Political Science and International Relations
POSC 304 Economic Theory of Politics (same as ECON 306) .............. 3
POSC 380 Introduction to Law ........................................................ 3
POSC 402 Civil Liberties I .............................................................. 3
POSC 404 Judicial Process ............................................................ 3
POSC 405 Constitutional Law of the United States ........................... 3
POSC 406 Civil Liberties II ............................................................ 3
POSC 423 Congress and Public Policy ............................................ 3
POSC 413 Problems in American Government: Gender, Sex and Law .... 3

Psychology
PSYC 346 Psychology and the Law (same as CRJU 346) ..................... 3
PSYC 347 The Jury: Guilty or Not Guilty (taken with CRJU 347) .......... 3

Sociology
SOCI 330 Population, Law and Society .......................................... 3
SOCI 345 Sociology of Law .......................................................... 3
SOCI 428 Corporate Crime (same as CRJU 428) ................................ 3
SOCI 456 Lawyers and Society (same as CRJU 456) ......................... 3

Women's Studies
WOMS 413 Gender, Sex, and American Law (same as POSC 413) ....... 3

LINGUISTICS

The Department of Linguistics offers two minors at the undergraduate level, including courses in linguistics at the introductory, intermediate, and advanced levels in both applied and theoretical areas. Many Linguistics courses fulfill the Group A, Group C, and Group D General Education Requirement in the College of Arts and Science as well as the University’s Multicultural Requirement.

REQUIREMENTS FOR THE MINOR IN LINGUISTICS

The minor in linguistics requires 18 credits, distributed as follows:

LING 101 Introduction to Linguistics .................................................. 3

One of the following:
LING 407 Phonology I .................................................................... 3
LING 409 Syntax I .......................................................................... 3
LING 477 Structure of English .......................................................... 3
LING 491 Semantics I .................................................................... 3

Any four additional LING courses, two of which must be at the 300-level or above .................................................. 12

Special problems courses and courses other than those specified above must have approval of the Undergraduate Studies Committee of the Department of Linguistics.

COGNITIVE SCIENCE MINOR

Cognitive Science studies the computational and representational structure of the mind by combining linguistics, philosophy, computer science (especially artificial intelligence), and psychology. Courses for the minor in cognitive science focus on three areas: (1) broad foundational issues in linguistics, psychology, and computing; (2) narrower issues in mental representation, computation, theoretical linguistics, and epistemology; (3) problems in cognition, data processing, language and formal representation that are related to students’ particular interests.

The minor is administered through the Department of Linguistics. It requires 18 credits, distributed as follows (most of these courses have prerequisites, as listed):

A All the following:
CGSC 270 Introduction to Cognitive Science .................................. 3
LING 101 Introduction to Linguistics .................................................. 3
PSYC 201 General Psychology ........................................................... 3
CISC 105 General Computer Science .............................................. 3
CISC 106 General Computer Science for Engineers .......................... 3
CISC 181 Introduction to Computer Science (prereq: CISC 105 or programming experience) ......... 3

B One of the following:
LING 409 Syntax I (prereq: LING 101) .............................................. 3
LING 491 Semantics I (prereq: LING 101) ........................................... 3
CGSC 480 Computers and the Mind .................................................... 3
CGSC 340 Cognition (prereq: PSYC 309) .......................................... 3

C One of the following:
PSYC 310 Sensation & Perception (prereq: PSYC 309) .................... 3
CGSC 314 Brain & Behavior ............................................................. 3
CGSC 220 Data Structures (prereq: CISC 181) ................................. 3
CGSC 681 Artificial Intelligence (prereq: CISC 220 & 310) ................. 3
PHIL 205 Logic ............................................................................ 3
EDST 462 Language Acquisition ..................................................... 3
LING 610 Syntax II (prereq: LING 409) ............................................. 3

No more than 3 courses may be from a single department.

CONFERENCE INTERPRETATION PROGRAM

Intensive Summer Seminar in Simultaneous and Consecutive Interpretation

Within the Department of Linguistics, the Conference Interpretation Program offers an intensive course in simultaneous and consecutive interpretation during the summer session. The Delaware program is one of only five in existence in the United States.
Coursework includes: basic theoretical constructs, pre-interpretation exercises, consecutive note-taking and note-reading, public speaking skills, simultaneous interpretation, self-monitoring techniques, short term memory strategies, ethics, scenario writing and role playing.

The languages of the intensive summer seminars vary. To date, we have offered two courses for candidates with a Spanish/English combination. However, the 1994 seminar was a "generic" course which was open to participants with any language in combination with English (such as Chinese/English, French/English, and so on). Candidates must have a good working knowledge of English and at least one other language in order to enroll. Prospective students are urged to contact the Department of Linguistics regarding the language combinations for future seminars.

**SPEECH PATHOLOGY AND COGNITIVE AND LINGUISTIC SCIENCE**

Students who wish to prepare for graduate or professional work in Speech Pathology and Communication Disorders may follow a course of study drawing on linguistics, speech science, psychology, neuroscience, and biology. This will include courses in acoustics, physiology, psycholinguistics, normal and abnormal development, and a variety of other scientific and clinical fields. Those wishing to study Cognitive and Linguistic Science may follow a course of study integrating language, computing, and thinking: in particular, introductory courses in linguistics, computer science, and psychology; a formal foundations course to provide the requisite mathematical underpinnings; and courses in some area of specialization, such as language development, computational modeling, or mathematical and logical foundations of cognitive science. Students interested in this area may pursue an interdepartmental major or a Bachelor of Arts in Liberal Studies degree.

The courses of each for these options are available from the Department. Advisors will work with students individually to design courses of study appropriate to the students' needs and the requirements of the fields.

**MATHEMATICAL SCIENCES**

The Department of Mathematical Sciences provides service courses for those who need to use mathematics and statistics in their career, be it engineering, science, medicine, or management. Mathematical sciences majors must also delve deeply into the structure of their subject without neglecting its applications. The balance between these two phases of mathematical education will depend on the goals and the inclination of the student. To meet these various needs, the Department offers four degree programs: the Bachelor of Science in Mathematical Sciences, the Bachelor of Science in Statistics, the Bachelor of Arts in Mathematical Sciences, and the Bachelor of Arts in Liberal Studies.

Within the Department, students are required to complete several courses in the major each year to graduate within a reasonable time frame. The Department of Mathematical Sciences carefully monitors student progress and will drop from the major any student not making satisfactory progress in the program. A normally matriculated student majoring in the Department of Mathematical Sciences is not making satisfactory progress if he or she: (1) has not successfully completed a required Mathematical Science course by the beginning of the third semester; or (2) has not successfully completed MATH 245 by the end of the fourth semester; or (3) has failed to successfully complete any required Mathematical Science course for two consecutive semesters. Consistent with the program requirements, "successfully complete" means to earn a grade of C- or better. A student not making satisfactory progress may petition the department to remain as a major when there are extenuating circumstances.

Departmental requirements and course descriptions are subject to continual revision. Up-to-date statements of requirements, course descriptions and departmental policies are available at the departmental office.

**DEGREE: BACHELOR OF ARTS**

**MAJOR: MATHEMATICAL SCIENCES**

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>See page 56 for University and College requirements.</td>
<td></td>
</tr>
</tbody>
</table>

**MAJOR REQUIREMENTS**

**Within the Department**

A grade of C- or better is required for major courses and related work. Students lacking preparation for MATH 242 should begin with MATH 241.

- MATH 210 Discrete Mathematics 1
- MATH 242 Analytic Geometry and Calculus B 4
- MATH 243 Analytic Geometry and Calculus C 4
- MATH 245 An Introduction to Proof 3
- MATH 249 Elementary Linear Algebra 3
- MATH 302 Ordinary Differential Equations 3
- STAT 300 Statistical Methods and Theory 4

Nine credits of mathematics and/or statistics at the 300 level or above, MATH 379, MATH 380, MATH 381, MATH 555, STAT 450, and STAT 555 are not applicable.

**Related Work**

Students with previous experience with a programming language should take:

- CISC 181 Introduction to Computer Science 3
- CISC 220 Data Structures 3

Students with no previous experience with a programming language should take:

- CISC 105 General Computer Science 3
- CISC 120 Object-Oriented Programming in C++ 2
- CISC 220 Data Structures 3

Any substitutions must be approved by the department Undergraduate Studies Committee.

ENGL 312 Written Communications in Business 3

**ELECTIVES**

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree, at least 79 outside Mathematical Sciences.

**CREDITS TO TOTAL A MINIMUM OF 124**

**DEGREE: BACHELOR OF SCIENCE**

**MAJOR: MATHEMATICAL SCIENCES**

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>See page 56 for University and College requirements.</td>
<td></td>
</tr>
</tbody>
</table>

**UNIVERSITY REQUIREMENTS**

- ENGL 110 Critical Reading and Writing (minimum grade C-) 3
- Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20) 3

**COLLEGE REQUIREMENTS**

**Skill Requirements**

- Writing: (minimum grade C) 3

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 59)
Foreign Language:  0-12
Completion of the intermediate-level course (107 or 112) in a given
language. Students with four or more years of high school work in a single
foreign language may attempt to fulfill the requirement in that language by
taking an exemption examination.
French, Russian, or German is recommended
Breadth Requirements (See page 60)
A total of twenty-one credits from Groups A, B and C is
required with a minimum of six credits in each group. The six credits from
each group could be from the same area
Group A
Understanding and appreciation of the creative arts and humanities
Group B
The study of culture and institutions over time
Group C
Empirically based study of human beings and their environment.

MAJOR REQUIREMENTS
A grade of C- or better is required for major courses and related work. Students
lacking adequate preparation for MATH 242 should begin with 241

Within the Department
MATH 210 Discrete Mathematics I 3
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 245 An Introduction to Proof 3
MATH 302 Ordinary Differential Equations 3
MATH 349 Elementary Linear Algebra 3
MATH 424 Advanced Calculus 3
MATH 426 Introduction to Numerical Analysis and
Algorithmic Computation 3
MATH 451 Abstract Algebra I 3
STAT 300 Statistical Methods and Theory 4

Eighteen additional credits of mathematics and/or statistics at the 300-
level or above. MATH 379, MATH 380, MATH 381, MATH 555,
STAT 450, and STAT 555 are not applicable.

Related Work
Students with previous experience with a programming language
should take:
CISC 181 Introduction to Computer Science 3
and
CISC 220 Data Structures 3

Students with no previous experience with a programming language
should take:
CISC 105 General Computer Science 3
and
CISC 120 Object Oriented Programming in C++ 3
and
CISC 220 Data Structures 3

Any substitutions must be approved by the department Undergraduate
Studies Committee.
ENGL 312 Written Communications in Business 3
Two-semester sequence of laboratory science 3
(Courses designed for non-majors in a discipline are not appropriate.)

ELECTIVES
After required courses are completed, sufficient elective credits must be
taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 128

DEGREE: BACHELOR OF SCIENCE
MAJOR: STATISTICS
CURRICULUM
CREDITS

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing
multicultural, ethnic, and/or gender-related content [see p. 20]

COLLEGE REQUIREMENTS
Writing: (minimum grade C) 3
A second writing course involving significant writing experience including
two papers with a combined minimum of 3,000 words to be submitted for
extended faculty critique of both composition and content. This course
must be taken after completion of 62 credit hours. Appropriate writing
courses are normally designated in the semester’s Registration Booklet
(See list of courses approved for second writing requirement, page 59)

Foreign Language:  0-12
Completion of the intermediate-level course (107 or 112) in a given
language. Students with four or more years of high school work in a single
foreign language may attempt to fulfill the requirement in that language by
taking an exemption examination.
French, Russian, or German is recommended

Breadth Requirements (See page 60)
A total of twenty-one credits from Groups A, B and C is
required with a minimum of six credits in each group. The six credits from
each group could be from the same area
Group A
Understanding and appreciation of the creative arts and humanities
Group B
The study of culture and institutions over time
Group C
Empirically based study of human beings and their environment.

MAJOR REQUIREMENTS
Within the Department
MATH 210 Discrete Mathematics I 3
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 245 An Introduction to Proof 3
MATH 302 Ordinary Differential Equations 3
MATH 349 Elementary Linear Algebra 3
MATH 424 Advanced Calculus 3
MATH 426 Introduction to Numerical Analysis and
Algorithmic Computation 3
MATH 451 Abstract Algebra I 3
STAT 300 Statistical Methods and Theory 4

Eighteen additional credits of mathematics and/or statistics at the 300-
level or above. MATH 379, MATH 380, MATH 381, MATH 555,
STAT 450, and STAT 555 are not applicable.

Related Work
Students with previous experience with a programming language
should take:
CISC 181 Introduction to Computer Science 3
and
CISC 220 Data Structures 3

Students with no previous experience with a programming language
should take:
CISC 105 General Computer Science 3
and
CISC 120 Object Oriented Programming in C++ 3
and
CISC 220 Data Structures 3

Any substitutions must be approved by the department Undergraduate
Studies Committee.
ENGL 312 Written Communications in Business 3
Two-semester sequence of laboratory science 3
(Courses designed for non-majors in a discipline are not appropriate.)

ELECTIVES
After required courses are completed, sufficient elective credits must be
taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 128
DEGREE: BACHELOR OF ARTS
MAJOR: MATHEMATICS EDUCATION

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20).

COLLEGE REQUIREMENTS

Skill Requirements

Writing (minimum grade C) 3
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet. (See list of courses approved for second writing requirement, page 59.)

Foreign Language: 0-12
Completion of the intermediate-level course (107 or 112) in a given language or, for students with more than 4 years of high school foreign language or the equivalent, satisfactory performance on a proficiency test in that language. French, Russian, or German is recommended.

Breadth Requirements [See page 60]
Group A 12
Understanding and appreciation of the creative arts and humanities
Twelve credits representing at least two areas.

Group B 9
The study of culture and institutions over time. Nine credits representing at least two areas.

Group C 9
Empirically based study of human beings and their environment. Nine credits representing at least two areas.

Group D 13
The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

MAJOR REQUIREMENTS
A grade of C or better is required for major courses and related work. Students lacking preparation for math 242 should begin with MATH 241.

Within the Department
MATH 210 Discrete Mathematics I 3
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 245 An Introduction to Proof 3
MATH 349 Elementary Linear Algebra 3
MATH 389 Graph Theory 3
MATH 401 Advanced Calculus 3
MATH 402 Mathematical Models and Applications 3
MATH 518 Mathematical Models and Applications 3

or another Modeling course
MATH 540 Geometry 3
STAT 300 Statistical Methods and Theory 4

In addition, students seeking certification to teach calculus must complete:
MATH 503 Advanced Calculus for Applications 3
MATH 508 Introduction to Complex Variables and Application 3

Related Work
CISC 105 General Computer Science 3
CISC 106 General Computer Science for Engineering 3
CISC 181 Introduction to Computer Science 3
PHYS 207 Introductory Physics I 4
ENGL 312 Written Communications in Business 3

Professional Studies
EDST 201 Education in a Multicultural Society 3
EDST 304 Educational Psychology – Social Aspects 3
EDST 305 Educational Psychology – Cognitive Aspects 3
MATH 179 Problem Solving Strategies I 1
MATH 379 Problem Solving Strategies 1
MATH 380 Approaches to Teaching Mathematics 3

MATH 381 Practicum in Secondary Mathematics 1
EDST 420 Reading in the Content Areas 1
EDDV 400 Student Teaching 9

To be eligible to student teach, Mathematics Education students must have a g p a. of 2.5 in their mathematics major and an overall g p a. of 2.5. Remaining in the program is subject to periodic review of satisfactory progress and, to be admitted to EDDV 400 Student Teaching, students must have completed all the mathematics courses required in the secondary mathematics education program. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student teaching application and other information concerning student teaching policies.

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree, 79 outside of Mathematical Sciences.

CREDITS TO TOTAL A MINIMUM OF ............................................. 124

COURSES FOR OTHER MAJORS

The three-semester calculus sequence MATH 241-242-243 is the traditional basis for programs in the physical sciences and engineering. Students with a sound preparation in calculus are encouraged to enroll in MATH 242 to avoid repetition of known material. Students with advanced placement are automatically placed in MATH 242, and others should follow the advice given during freshman orientation.

The calculus sequence MATH 221-222 and finite mathematics course MATH 230 are designed for students in the biological, behavioral, management and social sciences. Trigonometry is not a prerequisite for these courses. Requirements in mathematics preparation for these programs vary greatly; thus students with preparation in trigonometry, a high aptitude for mathematics, or an expectation of pursuing more quantitative aspects might seriously consider taking MATH 210 as an alternative to MATH 230 and MATH 241-242 as an alternative to MATH 221-222.

The sequence MATH 251-252 is designed for training elementary school teachers and is restricted to declared majors in the appropriate programs of the College of Education and College of Human Resources.

Students who need further preparation in algebra and trigonometry prior to a 200-level course should take MATH 115. MATH 114 serves to establish minimal skill levels for students not expecting to continue at the 200-level. Students seeking mathematical electives for self-enrichment may select MATH 280 if their skills are adequate for the 200-level.

Ordinarily, credit is not given for 100-level courses that follow successful completion of 200-level courses. Credit for corresponding courses from different tracks MATH 114 and 115; MATH 210 and 230; MATH 221 and 241; MATH 222 and 242; MATH 302 and MATH 341; and, MATH 349 and MATH 342 will be given only upon approval of the chair.

REQUIREMENTS FOR A MINOR IN MATHEMATICS

A student seeking a minor in mathematics must obtain permission from the chairperson or designee in the Department of Mathematical Sciences. Course requirements consist of a total of 18 credits in mathematics to include 9 credits above MATH 302 (MATH 341 is not considered above MATH 302 since it is a comparable course from a different track). However, MATH 342 may be counted as above MATH 302, provided MATH 349 is not included in the count. STAT 370 or any course cross-listed with a mathematics course may be counted toward the minor, except that courses in mathematics education (e.g., MATH 379, 380, 381) do not apply.
REQUIREMENTS FOR A MINOR IN STATISTICS
A student seeking a minor in statistics must obtain permission from the chairperson or his/her designee in the Department of Mathematical Sciences. Course requirements include STAT 370-371 and 9 credits in statistics above STAT 371 (excluded are STAT 555, STAT 650, STAT 656 and STAT 657).

MEDICAL HUMANITIES
The minor in medical humanities is an organized curriculum of study with an emphasis on the relationship between various humanistic inquiries and the practice of medicine.

REQUIREMENTS FOR A MINOR IN MEDICAL HUMANITIES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCC/PHIL 246</td>
<td>3</td>
</tr>
<tr>
<td>CSCC/ENGL 369</td>
<td>3</td>
</tr>
<tr>
<td>CSCC/HIST 382</td>
<td>3</td>
</tr>
<tr>
<td>CSCC 366</td>
<td>1</td>
</tr>
</tbody>
</table>

Two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCC/WOMS 233</td>
<td>3</td>
</tr>
<tr>
<td>CSCC/PHIL 241</td>
<td>3</td>
</tr>
<tr>
<td>CSCC/SOCI 242</td>
<td>3</td>
</tr>
<tr>
<td>CSCC/SOCI 243</td>
<td>3</td>
</tr>
<tr>
<td>CSCC 271</td>
<td>3</td>
</tr>
<tr>
<td>CSCC/SOCI 310</td>
<td>3</td>
</tr>
<tr>
<td>CSCC/ENGL 368</td>
<td>3</td>
</tr>
<tr>
<td>CSCC/HIST 385</td>
<td>3</td>
</tr>
<tr>
<td>CSCC/PHIL 444</td>
<td>3</td>
</tr>
</tbody>
</table>

Students wishing to complete a minor in Medical Humanities are encouraged to enroll as soon as possible. For information, contact Professor Ronald Martin in the Department of English, (302) 831-6729.

MEDIEVAL STUDIES
Students interested in the Middle Ages and Medieval Studies have the opportunity to draw on the resources of a number of departments and structure individual programs of breadth and variety. Students pursuing a minor in Medieval Studies must take a minimum of 18 credits from the following courses, selected from at least three departments.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 209</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 210</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 213</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 406/606</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 408/608</td>
<td>3</td>
</tr>
<tr>
<td>CMLT 320</td>
<td>3</td>
</tr>
<tr>
<td>CMLT 321</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 321</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 322</td>
<td>3</td>
</tr>
<tr>
<td>FLLT 320</td>
<td>3</td>
</tr>
<tr>
<td>FREN 423/623</td>
<td>3</td>
</tr>
<tr>
<td>HIST 241</td>
<td>3</td>
</tr>
<tr>
<td>HIST 245</td>
<td>3</td>
</tr>
<tr>
<td>HIST 342</td>
<td>3</td>
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<tr>
<td>HIST 343</td>
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<tr>
<td>HIST 344</td>
<td>3</td>
</tr>
<tr>
<td>HIST 471/671</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 311</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 302</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 435/635</td>
<td>3</td>
</tr>
</tbody>
</table>

Substitutions may be arranged with the permission of the faculty coordinator, provided that the required disciplinary distribution is maintained. For further information, consult Professor Mark Amsler, program coordinator, Department of English, (302) 831-6729 or Email: MAMSLER@UDEL.EDU

MILITARY SCIENCE-ARMY ROTC

Students at the University of Delaware have the opportunity to earn a commission as a Second Lieutenant in the U.S. Army upon completion of the military science program and a baccalaureate degree. The normal four-year program consists of the completion of eight semester courses, totaling 12 credits, and one six-week leadership camp during the summer. Courses at the 100 and 200-level are elective open to students of any major with no obligation. To be eligible to take 300 and 400-level courses, students must have completed all 100 and 200-level courses or qualify for the two-year program as described below. Restrictions apply for those students who are seeking an Army Commission (for more information contact the Military Science Department at 831-2217). A military obligation is incurred only if the student contracts for a commission and receives pay.

Two-Year Program. The two-year program provides sophomores, juniors, and graduate students who have not completed the first two years of military science the opportunity to qualify for advanced ROTC and to obtain a commission. The student must have at least two years of full-time academic status remaining to qualify. As a prerequisite, the student must complete a six-week summer basic camp (not basic training). Students are paid and all travel, medical needs and meals are provided while attending this camp. Military veterans with two academic years remaining generally qualify automatically for the two-year program.

Advanced Camp. The ROTC student desiring to receive a commission must successfully complete a six-week leadership camp, normally in the summer between the junior and senior years. This camp allows the student to apply, in a military environment, those leadership and technical skills studied on campus. Students are provided uniforms, food, lodging, and medical care at no cost and are paid during this period. Transportation to and from the student's home is provided.

Pay and Allowances. All ROTC students contracting for a commission receive a subsistence allowance of $150 per academic month.

Army ROTC Scholarship. Two, three- and four-year scholarships are awarded on the basis of academic merit and leadership potential. Scholarships pay up to $12,000 in tuition, $450 allowance for books, supplies, and fees, and $150 subsistence allowance per academic month. A number of scholarships are also available to qualified students who desire a commission in the Army Reserve or National Guard.

Obligation. All ROTC graduates must serve in some capacity for eight years. This may be fulfilled by serving three to four years on active duty, followed by service in the Army National Guard (ARNG), U.S. Army Reserve (USAR), Individual Ready Reserve (IRR) or by serving eight years in the Guard or Reserve preceded by the active duty time needed to complete an officer basic course.

Educational Delay. ROTC graduates may apply for a delay from entry on active duty for the purpose of obtaining an additional academic degree.

Academic Credit. The colleges of Agricultural Sciences, Arts and Science, Business and Economics, Education, Human Resources, and Physical Education, Athletics and Recreation accept all 12 military science credits toward graduation. The College of Nursing and College of Engineering accept 6 and 4 credits, respectively.

MUSIC
The Department of Music provides a wide variety of educational opportunities, ranging from experiences directed to the cultural enrichment of the entire University community to the preparation of
College of Arts and Science • Music

students for professional careers in music. The department is a leader in the development of computer-based instruction in music and video-disc technology. It is a full member of the National Association of Schools of Music.

For the general University student, the department offers courses in the fundamentals of music, music literature, and class study of voice and piano. All courses in the department are available to any University student who meets course and department prerequisites. Music courses may be taken as partial fulfillment of breadth requirements in the College of Arts and Science. Private study is also available to freshmen in the University Honors Program and to other non-majors, on a space-available basis, through the Music Merit Program. Auditions for these programs are held during the first week of the academic year by arrangement with the department office. A variety of performing organizations are available to all University students: marching band, wind and jazz ensembles, choral groups, gamelan, opera workshop, and various chamber ensembles.

A minor in music is available in applied music, musical studies, or jazz studies.

The curricula for students majoring in music lead to the degrees Bachelor of Music and Bachelor of Arts. The programs in the degree Bachelor of Music are directed to those who intend to become professional musicians. They offer opportunities to major in Music Education, Theory-Composition, or Applied Music (band orchestral instruments, organ, piano, classical guitar, and voice). The degree Bachelor of Arts offers the opportunity for professional study in music within a liberal arts context. All programs in music provide effective preparation for graduate study.

Entering majors are expected to demonstrate a high level of musical achievement and aptitude. Placement auditions and musicality tests for those students who wish to enter in the fall semester should be completed by June 1 of the preceding spring and must be completed before acceptance is granted. Acceptance to the University does not indicate acceptance as a music major. Students who transfer from accredited colleges are placed in appropriate levels of music theory, literature, and applied music according to the results of tests given at the time of transfer.

Part-time music majors must have the permission of the department chair to enroll for private study. Credit for large ensembles, as required by various curricula, is given only for participation during the fall and spring semesters. The Department of Music requires the successful completion of a Sophomore Review before continuation as a music major. Detailed information about these and other aspects of curricular policy are published in the Department's Student Handbook.----

Degree: Bachelor of Arts
Major: Music

Curriculum

See page 56 for University and College requirements.

Major Requirements

Within the Department

No more than 45 credits of Music courses may count toward the degree.

Applied Music

Musc 100 Recital Attendance (four semesters required) 0
Musc 161 Private Study 2
Musc 162 Private Study 2
Musc 175 Schools of Music: Elementary 3
Musc 261 Private Study 2
Musc 262 Private Study 2

Theory

Musc 185 Ear Training and Sight Singing I 2
Musc 186 Ear Training and Sight Singing II 2
Musc 195 Harmony I 3
Musc 196 Harmony II 3
Musc 285 Advanced Ear Training and Sight Singing I 2
Musc 286 Advanced Ear Training and Sight Singing II 2
Musc 295 Advanced Harmony I 3
Musc 296 Advanced Harmony II 3

Ensemble

Four credits of large ensembles. B A Music Majors with principle instrument of piano, organ or guitar must refer to the Department for required ensembles. Students must be enrolled in a large ensemble during all semesters in which they are enrolled in Applied Music.

Literature

Musc 211 Introduction to Music History 3
Musc 311 Music History: 1450-1750 3
Musc 312 Music History: 1715-1825 3
Musc 313 Music History: 1825 to the Present 3

Electives

After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

Credits to Total a Minimum of 124

Degree: Bachelor of Music
Major: Applied Music—Instrumental Concentration: Principal Instruments

The concentration designates the student's principal instrument. A list of instrumental options can be found in the chart on page vi of this catalog, or can be obtained from the Department or the College of Arts and Science Advisement Center.

Curriculum

University Requirements

Engr 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (See p. 20)

College Requirements

Skill Requirements

Writing: (minimum grade C) 3
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Mathematics:

Math 114 College Mathematics and Statistics 3
(Mathematics: designed for students who do not intend to continue the study of mathematics)

Math 115 Pre-Calculus 3
(Mathematics: designed for students who intend to continue the study of mathematics)

One of the following:

Math 221 Calculus I 3
Math 241 Analytic Geometry and Calculus A 4
Successful performance on the college proficiency exam

English literature course (200 level - Group A or B) 3
Hist 101 Western Civilization to 1648 3
Hist 102 Western Civilization: 1648 to the Present 3

Foreign Language

Two semesters of the same modern foreign language 8

Breadth Requirements (See page 60)

Group A

Understanding and appreciation of the creative arts and humanities (This requirement is satisfied by Musc 195 and 196)

Group B

The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by Musc 311, 312, 313, Hist 101, and 102)

Group C

Empirically based study of human beings and their environment. Nine credits representing at least two areas.

Group D

The study of natural phenomena through experiment and analysis

Analytic Geometry and Calculus A 4
## MAJOR REQUIREMENTS

### Within the Department

**Applied Music**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 100 Recital Attendance (six semesters required)</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 161 Private Study</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 162 Private Study</td>
<td>4</td>
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<tr>
<td>MUSC 261 Private Study</td>
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<td>MUSC 262 Private Study</td>
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<td>MUSC 361 Private Study</td>
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<tr>
<td>MUSC 461 Private Study</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 462 Private Study</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 175 Class Piano: Elementary I</td>
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<tr>
<td>MUSC 176 Class Piano: Elementary II</td>
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</tr>
<tr>
<td>MUSC 301 Junior Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 401 Senior Recital</td>
<td>0</td>
</tr>
</tbody>
</table>

**Theory**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 185 Ear Training and Sight Singing I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 186 Ear Training and Sight Singing II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 285 Advanced Ear Training and Sight Singing I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 286 Advanced Ear Training and Sight Singing II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 195 Harmony I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 196 Harmony II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 295 Advanced Harmony I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 296 Advanced Harmony II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC Theory courses</td>
<td>4-6</td>
</tr>
</tbody>
</table>

**Ensemble**

Twelve credits selected from the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSC 115 Bond, MUSC 116 Jazz Ensemble, MUSC 117 University Orchestra, MUSC 118 Percussion Ensemble, and MUSC 321 Ensemble (All Ensembles may be repeated)</td>
<td>12</td>
</tr>
</tbody>
</table>

Guitarists must complete the following: 8

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 321 Ensemble: Guitar</td>
<td>8</td>
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</tbody>
</table>

Two semesters of any departmental ensemble 2

**Literature**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 211 Introduction to Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 311 Music History: 1450-1750</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 312 Music History: 1715-1825</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 313 Music History: 1825 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>MUSC Theory courses</td>
<td>4-6</td>
</tr>
</tbody>
</table>

**Music Electives**

Excludes private study on primary instrument 7.9

May include two credits of ensemble

### CREDITS TO TOTAL A MINIMUM OF 130

## DEGREE: BACHELOR OF MUSIC

### MAJOR: APPLIED MUSIC-PIANO

**CURRICULUM**

**UNIVERSITY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110 Critical Reading and Writing (minimum grade C)</td>
<td>3</td>
</tr>
</tbody>
</table>

### COLLEGE REQUIREMENTS

**Skill Requirements**

**Writing:** (minimum grade C)

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet (See list of courses approved for second writing requirement, page 59)

**Mathematics:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 114 College Mathematics and Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

(Designated for students who do not intend to continue the study of mathematics) or

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 115 Pre-Calculus</td>
<td>3</td>
</tr>
</tbody>
</table>

(Designated for students who intend to continue the study of mathematics) or

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 221 Calculus I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Applied Music**

MUSC 100 Recital Attendance (six semesters required) 0

MUSC 161 Private Study 4

MUSC 162 Private Study 4

MUSC 261 Private Study 4

MUSC 262 Private Study 4

MUSC 361 Private Study 4

MUSC 362 Private Study 4

MUSC 461 Private Study 4

MUSC 462 Private Study 4

MUSC 175 Class Piano: Elementary I 1

MUSC 176 Class Piano: Elementary II 1

MUSC 301 Junior Recital 0

MUSC 401 Senior Recital 0

**Theory**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 185 Ear Training and Sight Singing I</td>
<td>2</td>
</tr>
</tbody>
</table>

MUSC 186 Ear Training and Sight Singing II 2

MUSC 285 Advanced Ear Training and Sight Singing I 2

MUSC 286 Advanced Ear Training and Sight Singing II 2

MUSC 195 Harmony I 3

MUSC 196 Harmony II 3

MUSC 295 Advanced Harmony I 3

MUSC 296 Advanced Harmony II 3

MUSC Theory courses 4-6

**Ensemble**

Twelve credits selected from the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 115 Bond, MUSC 116 Jazz Ensemble, MUSC 117 University Orchestra, MUSC 118 Percussion Ensemble, and MUSC 321 Ensemble (All Ensembles may be repeated)</td>
<td>12</td>
</tr>
</tbody>
</table>

Guitarists must complete the following: 8

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 321 Ensemble: Guitar</td>
<td>8</td>
</tr>
</tbody>
</table>

Two semesters of any departmental ensemble 2

**Literature**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 211 Introduction to Music History</td>
<td>3</td>
</tr>
</tbody>
</table>

MUSC 311 Music History: 1450-1750 3

MUSC 312 Music History: 1715-1825 3

MUSC 313 Music History: 1825 to the Present 3

MUSC Theory courses 4-6

**Music Electives**

Excludes private study on primary instrument 7.9

May include two credits of ensemble

### CREDITS TO TOTAL A MINIMUM OF 130

## MAJOR REQUIREMENTS

### Within the Department

**Applied Music**

MUSC 100 Recital Attendance (six semesters required) 0

MUSC 161 Private Study 4

MUSC 162 Private Study 4

MUSC 261 Private Study 4

MUSC 262 Private Study 4

MUSC 361 Private Study 4

MUSC 362 Private Study 4

MUSC 461 Private Study 4

MUSC 462 Private Study 4

MUSC 301 Junior Recital 0

MUSC 401 Senior Recital 0

**Theory**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 185 Ear Training and Sight Singing I</td>
<td>2</td>
</tr>
</tbody>
</table>

MUSC 186 Ear Training and Sight Singing II 2

MUSC 285 Advanced Ear Training and Sight Singing I 2

MUSC 286 Advanced Ear Training and Sight Singing II 2

MUSC 195 Harmony I 3

MUSC 196 Harmony II 3

MUSC 295 Advanced Harmony I 3

MUSC 296 Advanced Harmony II 3

MUSC Theory courses 4-6

**Ensemble**

Twelve credits selected from the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 115 Bond, MUSC 116 Jazz Ensemble, MUSC 117 University Orchestra, MUSC 118 Percussion Ensemble, and MUSC 321 Ensemble (All Ensembles may be repeated)</td>
<td>12</td>
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</tbody>
</table>

Guitarists must complete the following: 8

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 321 Ensemble: Guitar</td>
<td>8</td>
</tr>
</tbody>
</table>

Two semesters of any departmental ensemble 2

**Literature**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 211 Introduction to Music History</td>
<td>3</td>
</tr>
</tbody>
</table>

MUSC 311 Music History: 1450-1750 3

MUSC 312 Music History: 1715-1825 3

MUSC 313 Music History: 1825 to the Present 3

MUSC Theory courses 4-6

**Music Electives**

Excludes private study on primary instrument 7.9

May include two credits of ensemble

### CREDITS TO TOTAL A MINIMUM OF 130
DEGREE: BACHELOR OF MUSIC
MAJOR: APPLIED MUSIC-VOICE

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing
multicultural, ethnic, and/or gender-related content (see p. 20)

COLLEGE REQUIREMENTS

Skill Requirements
Writing: (minimum grade C) 3
A second writing course involving significant writing experience including
two papers with a combined minimum of 3,000 words to be submitted
for extended faculty critique of both composition and content. This course
must be taken after completion of 62 credit hours. Appropriate
writing courses are normally designated in the semester's Registration
Booklet. (See list of courses approved for second writing requirement, page 59)

Mathematics:
MATH 114 College Mathematics and Statistics 3
(designed for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus 3
(designed for students who intend to continue the study of mathematics)
or
One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
or
Successful performance on the college proficiency exam
HIST 102 Western Civilization: 1648 to the Present 3
Languages courses (French, German and Italian) 24
THEA 226 Acting I 3

Breadth Requirements [See page 60]
Group A
Understanding and appreciation of the creative arts and humanities
(This requirement is satisfied by MUSC 195 and 196)
Group B
The study of culture and institutions over time. Twelve credits represent-
ing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313 and HIST 102)
Group C
Empirically based study of human beings and their environment. Six
credits representing at least two areas
Group D
The study of natural phenomena through experiment and analysis.

MAJOR REQUIREMENTS
Within the Department

Applied Music
MUSC 100 Recital Attendance (six semesters required) 8
or
MUSC 109 Choral Union 8
or
MUSC 110 Choral 8

MUSIC
MUSC 211 Introduction to Music History 3
MUSC 311 Music History: 1450-1750 3
MUSC 312 Music History: 1715-1825 3
MUSC 313 Music History: 1825 to the Present 3

Related Music Studies
MUSC 171 Diction: English and Italian 1
MUSC 271 Diction: German 1
MUSC 272 Diction: French 1
MUSC 489 Opera Workshop 1

Music Electives
Nine credits from the following: (including four credits
from MUSC 327, 427 and/or 428)
MUSC 103 Introduction to Opera 3
MUSC 104 Introduction to Opera II 3
MUSC 327 German Lieder 2
MUSC 335 Basic Conducting 3
MUSC 395 Form Analysis 3
MUSC 397 Contemporary Harmony 3
MUSC 427 French Art Song 3
MUSC 428 Twentieth-Century Art Song 2
MUSC 480 Vocal Pedagogy 3

ELECTIVES
After required courses are completed, sufficient elective credits must be
taken to meet the minimum credit requirement for the degree

CREDITS TO TOTAL A MINIMUM OF 134

DEGREE: BACHELOR OF MUSIC
MAJOR: MUSIC EDUCATION-INSTRUMENTAL

CONCENTRATION: PRINCIPAL INSTRUMENT
The concentration designates the student's principal instrument. A list of
instrumental options can be found in the chart on page vi at the front of
this catalog, or can be obtained from the Department or the College of
Arts and Science Advisement Center

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing
multicultural, ethnic, and/or gender-related content (see p. 20)

COLLEGE REQUIREMENTS

Skill Requirements
Writing: (minimum grade C) 3
A second writing course involving significant writing experience including
two papers with a combined minimum of 3,000 words to be submitted
for extended faculty critique of both composition and content. This course
must be taken after completion of 62 credit hours. Appropriate writing
courses are normally designated in the semester's Registration Booklet
(See list of courses approved for second writing requirement, page 59)

Mathematics:
MATH 114 College Mathematics and Statistics 3
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115 Pre-Calculus 3
(designed for students who intend to continue the study of mathematics)
or
One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
or
Successful performance on the college proficiency exam

Breadth Requirements [See page 60]

Art or Art History course, to be selected from Group A or B 3
Group A
Understanding and appreciation of the creative arts and humanities
Nine credits representing at least two departments. (This requirement is
partially satisfied by MUSC 195 and 196)
The Music Education program requires a certain minimum GPA for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program advisor (see list on p. 127) should be consulted for the exact GPA requirements and other policies concerning qualifications for student teaching.

CREDITS TO TOTAL A MINIMUM OF ........................................... 129

DEGREE: BACHELOR OF MUSIC
MAJOR: MUSIC EDUCATION—GENERAL/CHORAL
CONCENTRATION: PIANO

CURRICULUM

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C) .................. 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20)

COLLEGE REQUIREMENTS

Skill Requirements

Writing: (minimum grade C) ............................................. 3
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet (See list of courses approved for second writing requirement, page 59)

Mathematics:

MATH 114 College Mathematics and Statistics .......................... 3
(Unfortunately for students who do not intend to continue the study of mathematics)

MATH 115 Pre-Calculus .................................................. 3
(designed for students who intend to continue the study of mathematics)

One of the following:

MATH 221 Calculus I ..................................................... 3
MATH 241 Analytic Geometry and Calculus A .......................... 4

Successful performance on the college proficiency exam

Breadth Requirements (See page 60)

Art or Art History course, to be selected from Group A or B .................... 3

Understanding and appreciation of the creative arts and humanities
Nine credits representing at least two areas. (This requirement is partially satisfied by MUSC 195 and 196)

Group B

The study of culture and institutions over time (MUSC 311, 312, and 313 count toward completion of this requirement)

Group C

Empirically based study of human beings and their environment. Nine credits representing at least two areas.

Group D

The study of natural phenomena through experiment and analysis. One science course with an associated laboratory

MAJOR REQUIREMENTS

Within the Department

Applied Music

MUSC 100 Recital Attendance (six semesters required) .......................... 0
MUSC 161 Private Study .................................................................. 2
MUSC 162 Private Study .................................................................. 2
MUSC 261 Private Study .................................................................. 2
MUSC 262 Private Study .................................................................. 2
MUSC 361 Private Study .................................................................. 2
MUSC 362 Private Study .................................................................. 2
MUSC 261 Private Study .................................................................. 2
MUSC 175 Class Piano: Elementary I .................................................. 1
MUSC 176 Class Piano: Elementary II .................................................. 1
MUSC 174 Class Voice: Beginning ..................................................... 1
MUSC 301 Junior Recital .................................................................. 0

Theory

MUSC 185 Ear Training and Sight Singing I ........................................... 2
MUSC 186 Ear Training and Sight Singing II ........................................... 2
MUSC 285 Advanced Ear Training and Sight Singing I ......................... 2
MUSC 286 Advanced Ear Training and Sight Singing II ......................... 2
MUSC 193 Harmony I .................................................................... 3
MUSC 196 Harmony II .................................................................... 3
MUSC 295 Advanced Harmony I ....................................................... 3
MUSC 296 Advanced Harmony II ....................................................... 3
MUSC 331 Orchestration .................................................................. 2

Ensemble

MUSC 115 Band .............................................................................. 7

Literature

MUSC 211 Introduction to Music History ............................................. 3
MUSC 311 Music History: 1450-1750 ................................................. 3
MUSC 312 Music History: 1715-1825 ................................................. 3
MUSC 313 Music History: 1825 to the Present .................................... 3

Secondary Instruments

MUSC 214 Strings Instruments Class .................................................. 1
MUSC 215 Brass Instruments Class .................................................... 1
MUSC 216 Low Brass Instruments Class ............................................. 1
MUSC 217 Woodwind Instruments Class I .......................................... 1
MUSC 218 Woodwind Instruments Class II ........................................... 1
MUSC 219 Percussion Instruments ..................................................... 1

Music Methods

MUSC 335 Basic Conducting ............................................................ 2
MUED 270 Practicum in Music Education ............................................ 3
MUED 337 Instrumental Conducting ................................................... 2
MUED 379 Music in the Elementary and Junior High (or Middle) School 3
MUED 479 Secondary Music Materials and Approaches ...................... 3
MUSC 287 Music Technology ........................................................... 3

Music Electives

Six music electives excluding ensemble and private study on primary instrument .................................................. 6

Professional Studies

Education

EDST 201 Education in a Multicultural Society ..................................... 3
EDST 304 Educational Psychology – Social Aspects ......................... 3
EDST 305 Educational Psychology – Cognitive Aspects ................... 3
EDDV 400 Student Teaching ............................................................. 9

The Music Education program requires a certain minimum GPA for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program advisor (see list on p. 127) should be consulted for the exact GPA requirements and other policies concerning qualifications for student teaching.

CREDITS TO TOTAL A MINIMUM OF ........................................... 129

103
Successful performance on the college proficiency exam

MATH 221 Calculus I 3

One of the following:

MATH 114 College Mathematics and Statistics 3

Successful performance on the college proficiency exam.

Secondary Instruments

MUSC 214 Stringed Instruments Class I 1

or

MUSC 215 High Brass Instruments Class I 1

or

MUSC 217 Woodwind Instruments Class I 1

Music Methods

MUSC 287 Music Technology 3

MUSC 335 Basic Conducting 2

MUED 279 Practicum in Music Education 3

MUED 336 Choral Conducting 2

MUED 379 Music in the Elementary and Junior High (or Middle) School 3

MUED 479 Secondary Music Materials and Approaches 3

Music Electives

Three credits of music electives excluding ensemble and private study on primary instrument (MUSC 407 recommended)

Professional Studies

Education

EDST 201 Education in a Multicultural Society 3

EDST 304 Educational Psychology - Social Aspects 3

EDST 305 Educational Psychology - Cognitive Aspects 3

EDDV 400 Student Teaching 9

To be eligible to student teach, Music Education students must have a g.p.a. of 2.75 in their music major and an overall g.p.a. of 2.5. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF 133

DEGREE: BACHELOR OF MUSIC

MAJOR: MUSIC EDUCATION—GENERAL/CHORAL

CONCENTRATION: VOICE

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C) 3

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20)

COLLEGE REQUIREMENTS

Skill Requirements

Writing: (minimum grade C) 3

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 59.)

Mathematics:

MATH 114 College Mathematics and Statistics 3

MATH 115 Pre- Calculus 3

One of the following:

MATH 221 Calculus I 4

or

MATH 241 Analytic Geometry and Calculus A 4

Breadth Requirements (See page 60)

Art or Art History course, to be selected from Group A or B 3

Group A

Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas. [This requirement is partially satisfied by MUSC 195 and 196]

Group B

The study of culture and institutions over time. (MUSC 311, 312, and 313 count toward completion of this requirement)

Group C

Empirically based study of human beings and their environment. Nine credits representing at least two areas

Group D

The study of natural phenomena through experiment and analysis. One science course with an associated laboratory.

ENGLISH REQUIREMENTS

Within the Department

Applied Music

MUSC 100 Recital Attendance (six semesters required) 0

MUSC 161 Private Study 2

MUSC 162 Private Study 2

MUSC 261 Private Study 2

MUSC 262 Private Study 2

MUSC 361 Private Study 2

MUSC 362 Private Study 2

MUSC 461 Private Study 2

MUSC 175 Class Piano: Elementary I 1

MUSC 176 Class Piano: Elementary II 1

MUSC 275 Class Piano: Intermediate I 1

MUSC 276 Class Piano: Intermediate II 1

MUSC 171 Diction: English and Italian 1

MUSC 271 Diction: German 1

MUSC 272 Diction: French 1

MUSC 480 Vocal Pedagogy 3

MUSC 301 Junior Recital 1

Group

Theory

MUSC 185 Ear Training and Sight Singing I 2

MUSC 186 Ear Training and Sight Singing II 2

MUSC 285 Advanced Ear Training and Sight Singing I 2

MUSC 286 Advanced Ear Training and Sight Singing II 2

MUSC 195 Harmony I 3

MUSC 196 Harmony II 3

MUSC 295 Advanced Harmony I 3

MUSC 296 Advanced Harmony II 3

MUSC 397 Contemporary Harmony 3

 Ensemble

MUSC 108 University Singers 8

or

MUSC 109 Choral Union 8

or

MUSC 110 Choral 8

Literature

MUSC 211 Introduction to Music History 3

MUSC 311 Music History: 1450-1750 3

MUSC 312 Music History: 1715-1825 3

MUSC 313 Music History: 1825 to the Present 3

MUSC 328 Choral Literature 3

Secondary Instruments

MUSC 214 Stringed Instruments Class I 1

MUSC 215 High Brass Instruments Class I 1

MUSC 217 Woodwind Instruments Class I 1

Music Methods

MUSC 287 Music Technology 3

MUSC 335 Basic Conducting 2

MUED 279 Practicum in Music Education 3

MUED 336 Choral Conducting 2

MUED 279 Music in the Elementary and Junior High (or Middle) School 3

MUED 279 Secondary Music Materials and Approaches 3

Music Electives

Three credits of music electives excluding ensemble and private study on primary instrument (MUSC 407 recommended)
Professional Studies

Education
EDST 201 Education in a Multicultural Society 3
EDST 304 Educational Psychology - Social Aspects 3
EDST 305 Educational Psychology - Cognitive Aspects 3
EDDV 400 Student Teaching 9

The Music Education program requires a certain minimum GPA for enrollment in EDDV 400. Student Teaching, a course required for the degree, must be completed with a grade of C or better. The teacher education program advisor (see list on p. 127) should be consulted for exact GPA requirements and other policies concerning qualifications for student teaching.

CREDITS TO TOTAL A MINIMUM OF ............................ 133

DEGREE: BACHELOR OF MUSIC

MAJOR: THEORY/COMPOSITION

CONCENTRATIONS: THEORY/COMPOSITION

CURRICULUM

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing cultural, ethnic, and/or gender-related content (see p. 20)

COLLEGE REQUIREMENTS

Skill Requirements

Writings: (minimum grade C)
A second writing course involving significant writing experience including two papers with at least 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet. (See list of courses approved for second writing requirement, page 59)

Mathematics:
MATH 114 College Mathematics and Statistics 3
[for students who do not intend to continue the study of mathematics]
MATH 115 Precalculus 3
[for students who intend to continue the study of mathematics]
One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
Successful performance on the college proficiency exam

Modern Languages
Twelve credits in one of the following: French, German, or Italian
HIST 101 Western Civilization to 1648 3
HIST 102 Western Civilization to the Present 3

Breadth Requirements (See page 60)
Two 200-level or higher English literature courses selected from
Group A or B
Group A
Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196)
Group B
The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313, HIST 101, and 102)

Group C
Empirically based study of human beings and their environment. Nine credits representing at least two areas.

Group D
The study of natural phenomena through experiment and analysis. Nine credits in at least two areas

MAJOR REQUIREMENTS

Within the Department

Applied Music
MUSC 100 Recital Attendance (six semesters required) 0
MUSC 175 Class Piano: Elementary I 1
MUSC 275 Class Piano: Intermediate I 1
MUSC 276 Class Piano: Intermediate II 1

Secondary Instruments and Conducting
MUSC 214 Stringed Instruments Class I 1
MUSC 215 Stringed Instruments Class III 1
MUSC 217 Woodwind Instruments Class I 1
MUSC 219 Percussion Instruments 1
MUSC 355 Basic Conducting 2

Theory
MUSC 185 Ear Training and Sight Singing I 2
MUSC 186 Ear Training and Sight Singing II 2
MUSC 285 Advanced Ear Training and Sight Singing I 2
MUSC 286 Advanced Ear Training and Sight Singing II 2
MUSC 195 Harmony I 3
MUSC 196 Harmony II 3
MUSC 295 Advanced Harmony I 3
MUSC 296 Advanced Harmony II 3
MUSC 287 Music Technology 3
MUSC 331 Orchestration 2
MUSC 392 Counterpoint Writing 2
MUSC 393 Keyboard Harmony I 2
MUSC 394 Keyboard Harmony II 2
MUSC 395 Form Analysis 3
MUSC 397 Contemporary Harmony 3

CONCENTRATIONS: THEORY/COMPOSITION

MUSIC MINOR: APPLIED MUSIC-PRINCIPAL INSTRUMENT

This title represents 19 applied music minors, the actual titles of which include the name of the study of music. A list of applied music minors can be found in the catalog of the Department of Music. The Department of Music and the Arts and Science Advisement Center.

The Applied Music minor is for nonmusic majors who wish to continue their musical training on a more formal basis or those who wish to receive formal training on an additional instrument. Places in the minor program are dependent upon the total load of the applied faculty member involved. Admission into the Applied Music minor is determined by audition and music theory testing. The requirements are:

CREDITS

Class Piano - MUSC 175 1

Not required of persons minoring in Applied Music - Piano
MUSC 161, 162, 261, 262 8
Lessons will be 1/2 hour per week and will include a recital class

Ensemble - MUSC 200 4
Ensemble and private study must be taken concurrently. (See Ensemble Policy in the Department of Music Student Handbook) Music minors with principal instrument of piano, organ, or guitar must refer to the Department for required ensemble instructions.

Theory/Composition - MUSC 185 and 195 5

CREDITS TO TOTAL A MINIMUM OF ............................ 126

REQUIREMENTS FOR A MINOR IN MUSIC

A minimum grade of C is required in each course for music minors.
MUSIC MINOR: JAZZ STUDIES
The Music Minor in Jazz Studies offers a concentrated study of the history, theory, and performance elements of the field of jazz. It is directed towards two groups of students: (1) The non-music major who desires a focused study of jazz and its performance techniques; (2) Music Majors who wish to round out their education in music with a structured study of jazz. For this group, the Minor is an important component in a comprehensive education in Music. The requirements are:

<table>
<thead>
<tr>
<th>CREDITS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jazz Styles/Tech MUSC 181 and 281</td>
<td>4</td>
</tr>
<tr>
<td>Ensemble MUSC 116 (four semesters), MUSC 321</td>
<td>5</td>
</tr>
<tr>
<td>Jazz Improvisation MUSC 293 and 294</td>
<td>6</td>
</tr>
<tr>
<td>Harmony and History MUSC 197 and 207</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

MUSIC MINOR: MUSICAL STUDIES
The Musical Studies Minor is for nonmusic majors who wish to increase their knowledge and understanding of the history and theory of music. No audition is required for admission into the Musical Studies minor. The requirements are:

<table>
<thead>
<tr>
<th>CREDITS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 185</td>
<td>Ear Training and Sight Singing I</td>
</tr>
<tr>
<td>MUSC 195</td>
<td>Harmony I</td>
</tr>
<tr>
<td>MUSC 211</td>
<td>Introduction to Music History</td>
</tr>
<tr>
<td>MUSC 311</td>
<td>Music History: 400 - 1600</td>
</tr>
<tr>
<td>or MUSC 312</td>
<td>Music History: 1600 - 1827</td>
</tr>
<tr>
<td>or MUSC 313</td>
<td>Music History: 1825 to Present</td>
</tr>
<tr>
<td>MUSC Ensemble</td>
<td></td>
</tr>
<tr>
<td>MUSC History/Literature Elective (MUSC 101 and 102 do not fulfill this requirement. Any other music history course will do)</td>
<td>3</td>
</tr>
<tr>
<td>MUSC Theory Elective (MUSC 186, 196, 197, 287, 383)</td>
<td>23</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>18-19</strong></td>
</tr>
</tbody>
</table>

PHILOSOPHY
Philosophy provides training in basic methods of reasoning, both clear thinking procedures for everyday decision making and more formal techniques of logical analysis. It examines fundamental issues and ideas about our knowledge and values. It furnishes a critical perspective on the methods and results of other disciplines.

A major, a minor, or a concentration in philosophy is a useful background for many careers including the teaching of philosophy. Majors often go on to graduate work in other arts and science disciplines, as well as to further schooling in law, theology, education, data processing, or business. In general, philosophy offers all students opportunities to develop their critical and analytical skills.

The American Philosophical Association's national headquarters is on the Delaware campus.

DEGREE: BACHELOR OF ARTS
MAJOR: PHILOSOPHY
CURRICULUM
See page 56 for University and College requirements.

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Within the Department</td>
<td></td>
</tr>
<tr>
<td>PHIL 105</td>
<td>Critical Thinking</td>
</tr>
<tr>
<td>or PHIL 205</td>
<td>Logic</td>
</tr>
</tbody>
</table>

PHIL 201 | Social and Political Philosophy | 3 |
| or PHIL 203 | Ethics | 3 |
| PHIL 301 | Ancient Philosophy | 3 |
| PHIL 303 | Modern Philosophy | 3 |
| PHIL 305 | Twentieth Century Philosophy | 3 |
| or PHIL 320 | Theory of Knowledge | 3 |
| PHIL 465 | Senior Seminar | 3 |
| Six additional Philosophy credits at the 300-level or above | 6 |
| Six additional Philosophy elective credits | 6 |

The student's program must include six hours of multicultural courses, selected in consultation with the advisor, from suitable courses in Philosophy, Black American, Women's, Jewish, Oriental, Latin American or African Studies. The six hours may include courses in Philosophy which count toward completing the major requirements for the degree.

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR A MINOR IN PHILOSOPHY
A minor in philosophy requires a minimum of 15 credits, consisting of PHIL 105 or 205; PHIL 301 or PHIL 303; an additional 300-level PHIL course; and two PHIL electives.

PHYSICAL THERAPY
Prephysical therapy (undergraduate) students are admitted to the University as "physical therapy interest" and follow a program of study leading to a baccalaureate degree with a major in one of the traditional disciplines (e.g., biological sciences, psychology, or other choices). A major in a traditional discipline must be declared by the end of the fifth semester. Students receive academic advice by staff members in the advisement office in their major department. They receive career counseling from faculty in the Physical Therapy Program. Upon graduation from their undergraduate program, students will have the necessary course work that will allow them to compete for admission to graduate programs throughout the United States, including the University of Delaware.

PHYSICS AND ASTRONOMY
The Department of Physics and Astronomy maintains a balanced program of instruction, for students who wish to acquire some understanding of physics as part of their cultural background as well as for those who require training in physics in preparation for engineering or scientific careers. Intermediate and advanced courses are offered for students who plan teaching or research careers in physics or related disciplines. The research activity of the staff of the Physics and Astronomy Department and of the staff of the Bartol Research Institute, which is affiliated with the University of Delaware and located in Sharp Laboratory, is diverse and substantial. Undergraduate participation in research is encouraged.

DEGREE: BACHELOR OF ARTS
MAJOR: PHYSICS
CURRICULUM
See page 56 for University and College requirements. Note: MATH 241 Analytical Geometry and Calculus A satisfies the Mathematics Skills College requirement and is strongly recommended as the first math course for physics majors, unless the placement exam suggests differently.
MAJOR REQUIREMENTS

Within the Department
Ordinarily, no more than four credits from among PHYS 201, and 207 may be counted toward graduation requirements; similarly no more than four from among PHYS 202, 208. Students interested in majoring in Physics who have taken an introductory sequence other than PHYS 207-8 should consult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation may be given with permission of the Physics chair.

**PHYS 207** Fundamentals of Physics I (strongly recommended) 4
PHYS 201 Introductory Physics I 4
PHYS 208 Fundamentals of Physics II (strongly recommended) 4
PHYS 202 Introductory Physics II 4

Twenty-two credits in Physics, of which fifteen must be at the 300-level or higher

Within the College
MATH 241 Analytic Geometry and Calculus A (recommended) 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 221 Calculus I 3
MATH 222 Calculus II 3

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree

**CREDITS TO TOTAL A MINIMUM OF** 124

---

DEGREE: BACHELOR OF SCIENCE

MAJOR: PHYSICS

CREDITS

---

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20) 3

COLLEGE REQUIREMENTS

Skill Requirements

Writing: (minimum grade C) 3

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet (See list of courses approved for second writing requirement, page 59.)

Foreign Language: 0-12

Completion of the intermediate-level course (107 or 112 or 214) in a given language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination

Breadth Requirements (See page 60)

A total of twenty-one credits from Groups A, B and C is required with a minimum of six credits in each group. The six credits from each group could be from the same area.

Group A
Understanding and appreciation of the creative arts and humanities.

Group B
The study of culture and institutions over time

Group C
Empirically based study of human beings and their environment

MAJOR REQUIREMENTS

Within the Department
Ordinarily, no more than four credits from among PHYS 201, and 207 may be counted toward graduation requirements; similarly no more than four from among PHYS 202, 208. Students interested in majoring in Physics who have taken an introductory sequence other than PHYS 207-8 should consult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation may be given with permission of the Physics chair.

**PHYS 207** Fundamentals of Physics I 4
PHYS 208 Fundamentals of Physics II 4
PHYS 209 Fundamentals of Physics III 4
PHYS 306 Computational Methods of Physics 4
PHYS 313 Physical Optics 4
PHYS 419 Classical Mechanics I 3
PHYS 422 Quantum Mechanics 3
PHYS 603 Electricity and Magnetism I 3
PHYS 604 Electricity and Magnetism II 3
PHYS 616 Kinetic Theory and Thermodynamics 3
PHYS 620 Classical Mechanics II 3
PHYS 621 Fundamentals of Modern Physics 3
PHYS 645 Electronics for Scientists 3
PHYS 647 Modern Physics Laboratory 3

Within the College

Mathematics:

MATH 241 Analytic Geometry and Calculus A 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 302 Ordinary Differential Equations 3
MATH 349 Elementary Linear Algebra 3

One of the following three courses:

MATH 503 Advanced Calculus for Applications 3
MATH 508 Introduction to Complex Variables and Applications 3
MATH 514 Topics in Advanced Mathematics for Engineers 3

Natural Science

CHEM 103 General Chemistry 4
CHEM 104 General Chemistry 4

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree

**CREDITS TO TOTAL A MINIMUM OF** 130

---

DEGREE: BACHELOR OF SCIENCE

MAJOR: PHYSICS

CONCENTRATION: ASTRONOMY/ASTROPHYSICS

CREDITS

---

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 20) 3

COLLEGE REQUIREMENTS

Skill Requirements

Writing: (minimum grade C) 3

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet (See list of courses approved for second writing requirement, page 59.)

Foreign Language: 0-12

Completion of the intermediate-level course (107 or 112 or 214) in a given language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination

Breadth Requirements (See page 60)

A total of twenty-one credits from Groups A, B and C is required with a minimum of six credits in each group. The six credits from each group could be from the same area.

Group A
Understanding and appreciation of the creative arts and humanities.

Group B
The study of culture and institutions over time

Group C
Empirically based study of human beings and their environment

MAJOR REQUIREMENTS

Within the Department
Ordinarily, no more than four credits from among PHYS 201, and 207 may be counted toward graduation requirements; similarly no more than four from among PHYS 202, 208. Students interested in majoring in Physics who have taken an introductory sequence other than PHYS 207-8 should consult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation may be given with permission of the Physics chair.

**PHYS 207** Fundamentals of Physics I 4
**PHYS 208** Fundamentals of Physics II 4
**PHYS 209** Fundamentals of Physics III 4
**PHYS 306** Computational Methods of Physics 4
**PHYS 313** Physical Optics 4
**PHYS 419** Classical Mechanics I 3
**PHYS 422** Quantum Mechanics 3
**PHYS 603** Electricity and Magnetism I 3
**PHYS 604** Electricity and Magnetism II 3
**PHYS 616** Kinetic Theory and Thermodynamics 3
**PHYS 620** Classical Mechanics II 3
**PHYS 621** Fundamentals of Modern Physics 3
**PHYS 645** Electronics for Scientists 3
**PHYS 647** Modern Physics Laboratory 3

Within the College

Mathematics:

**MATH 241** Analytic Geometry and Calculus A 4
**MATH 242** Analytic Geometry and Calculus B 4
**MATH 243** Analytic Geometry and Calculus C 4
**MATH 302** Ordinary Differential Equations 3
**MATH 349** Elementary Linear Algebra 3

One of the following three courses:

**MATH 503** Advanced Calculus for Applications 3
**MATH 508** Introduction to Complex Variables and Applications 3
**MATH 514** Topics in Advanced Mathematics for Engineers 3

Natural Science

**CHEM 103** General Chemistry 4
**CHEM 104** General Chemistry 4

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree

**CREDITS TO TOTAL A MINIMUM OF** 130
The study of culture and institutions over time may be counted toward graduation requirements; similarly no more than four from among PHYS 202, 208. Students interested in majoring in Physics who have taken an introductory sequence other than PHYS 207-8 should consult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation may be given with permission of the Physics chair.

PHYS 133 Introduction to Astronomy 4
PHYS 207 Fundamentals of Physics I 4
PHYS 208 Fundamentals of Physics II 4
PHYS 209 Fundamentals of Physics III 3
PHYS 306 Computational Methods of Physics 3
PHYS 313 Physical Optics 4
PHYS 419 Classical Mechanics I 3
PHYS 422 Quantum Mechanics 3
PHYS 449 Introduction to Research 4
PHYS 603 Electricity and Magnetism I 3
PHYS 616 Kinetic Theory and Thermodynamics 3
PHYS 620 Classical Mechanics II 3
PHYS 621 Fundamentals of Modern Physics I 3
PHYS 623 Astrophysics 3
PHYS 633 Stellar Astrophysics 3
PHYS 645 Electronics for Scientists 3
PHYS 664 Instrumentation for Scientists 3

Within the College

Mathematics:
MATH 241 Analytic Geometry and Calculus A 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 302 Ordinary Differential Equations 3
MATH 349 Elementary Linear Algebra 3

Natural Science:
GEOL 109 Planets, Asteroids, and Impacts 3

Electives
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ............................................. 130

DEGREE: BACHELOR OF SCIENCE
MAJOR: PHYSICS
CONCENTRATION: CHEMICAL PHYSICS

CREDITS
Curriculum ..........................................

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C-) 3
Three credits in an approved course or courses stressing
multicultural, ethnic, and/or gender-related content (see p. 20) 3

COLLEGE REQUIREMENTS

Skill Requirements
Writing: [minimum grade C] 3
A second writing course involving significant writing experience including
two papers with a combined minimum of 3,000 words to be submitted for
extended faculty critique of both composition and content. This course
must be taken after completion of 62 credit hours. Appropriate writing
courses are normally designated in the semester's Registration Booklet
(See list of courses approved for second writing requirement, page 59.)

Foreign Language: 0-12
Completion of the intermediate-level course (107 or 112 or 214) in a
given language. Students with four or more years of high school work in a
single foreign language may attempt to fulfill the requirement in that lan-
guage by taking an exemption examination

Breadth Requirements [See page 60]
A total of twenty-one credits from Groups A, B and C is
required with a minimum of six credits in each group. The six credits
from each group could be from the same area

Group A
Understanding and appreciation of the creative arts and humanities

Group B
The study of culture and institutions over time

Group C
Empirically based study of human beings and their environment

MAJOR REQUIREMENTS

Within the Department
Ordinarily, no more than four credits from among PHYS 201, and 207
may be counted toward graduation requirements; similarly no more than
four from among PHYS 202, 208. Students interested in majoring in

DEGREE: BACHELOR OF SCIENCE
MAJOR: PHYSICS
CONCENTRATION: MATERIALS PHYSICS

CREDITS
Curriculum ..........................................

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C-) 3
Three credits in an approved course or courses stressing
multicultural, ethnic, and/or gender-related content (see p. 20) 3

COLLEGE REQUIREMENTS

Skill Requirements
Writing: [minimum grade C] 3
A second writing course involving significant writing experience including
two papers with a combined minimum of 3,000 words to be submitted for
extended faculty critique of both composition and content. This course
must be taken after completion of 62 credit hours. Appropriate writing
courses are normally designated in the semester's Registration Booklet
(See list of courses approved for second writing requirement, page 59.)

Foreign Language: 0-12
Completion of the intermediate-level course (107 or 112 or 214) in a
given language. Students with four or more years of high school work in a
single foreign language may attempt to fulfill the requirement in that lan-
guage by taking an exemption examination

Breadth Requirements [See page 60]
A total of twenty-one credits from Groups A, B and C is
required with a minimum of six credits in each group. The six credits
from each group could be from the same area

Group A
Understanding and appreciation of the creative arts and humanities

Group B
The study of culture and institutions over time

Group C
Empirically based study of human beings and their environment

MAJOR REQUIREMENTS

Within the Department
Ordinarily, no more than four credits from among PHYS 201, and 207
may be counted toward graduation requirements; similarly no more than
four from among PHYS 202, 208. Students interested in majoring in
Physics who have taken an introductory sequence other than PHYS 207-8 should consult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation may be given with permission of the Physics chair.

PHYS 207 Fundamentals of Physics I 4
PHYS 208 Fundamentals of Physics II 4
PHYS 209 Fundamentals of Physics III 3
PHYS 306 Computational Methods of Physics 3
PHYS 313 Physical Optics 4
PHYS 419 Classical Mechanics I 3
PHYS 422 Quantum Mechanics 3
PHYS 603 Electricity and Magnetism I 3
PHYS 616 Kinetic Theory and Thermodynamics 3
PHYS 621 Fundamentals of Modern Physics I 3
PHYS 624 Introduction to Solid State Physics 3
PHYS 645 Electronics for Scientists 3
PHYS 646 Instrumentation for Scientists 3
PHYS 647 Modern Physics Laboratory 3

Within the College

Mathematics:
MATH 241 Analytic Geometry and Calculus A 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 302 Ordinary Differential Equations 3
MATH 349 Elementary Linear Algebra 3

Natural Science
CHEM 103 General Chemistry 4
CHEM 104 General Chemistry 4

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ......................... 124

DEGREE: BACHELOR OF ARTS MAJOR: PHYSICS EDUCATION
CURRICULUM CREDITS
See page 56 for University and College requirements. Note: MATH 241 Analytical Geometry and Calculus A satisfies the Mathematics Skills College requirement and is strongly recommended as the first math course for physics education majors, unless the placement exam suggests differently.

MAJOR REQUIREMENTS
Within the Department
PHYS 207 Fundamentals of Physics I 4
PHYS 208 Fundamentals of Physics II 4
PHYS 209 Fundamentals of Physics III 3
Nineteen credits, fifteen of which must be at the 300-level or higher 19
Within the College
MATH 241 Analytic Geometry and Calculus A 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
CHEM 103 General Chemistry 4
CHEM 104 General Chemistry 4

Professional Studies
EDST 201 Education in a Multicultural Society 3
EDST 304 Educational Psychology - Social Aspects 3
EDST 305 Educational Psychology - Cognitive Aspects 3
SCEN 491 Teaching Science in Secondary Schools 4
EDST 420 Reading in the Content Areas 1
EDDV 400 Student Teaching 9

To be eligible to student teach, Physics Education students must have a g p a of 2.75 in their physics major and an overall g p a. of 2.5. Students should consult the Teacher Education Program Coordinator (see list on p. 127) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF ......................... 130

DEGREE: BACHELOR OF SCIENCE DEGREE IN GEOPHYSICS
The Geology Department, jointly with the Physics Department, offers a B.S. degree in geophysics. Geophysics involves the use of seismic, gravity, magnetic, and electrical methods to study the structure and tectonic evolution of the earth. Geophysicists may perform such diverse tasks as using ground penetrating radar to detect the presence of buried hazardous wastes to modeling seismic waves to determine the nature of the earth’s core-mantle boundary. The geophysics program is designed to produce students well-grounded in both geology and physics, but specifically trained in geophysical principles and techniques.

REQUIREMENTS FOR A MINOR IN PHYSICS
Students in other departments can receive credit for work in physics by means of a physics minor, consisting of PHYS 207-208 plus 9 credits from PHYS courses at or above the 300-level. Students considering minoring in physics should consult the physics associate chair for advice or prerequisites for these courses and for assignment to an advisor.

POLITICAL SCIENCE
Political science majors acquire a broad introduction to the study of government and politics within a liberal arts tradition. Majors are required to complete at least sixty percent of their work in upper-division (300- and 400-level) courses in four of the five subfields in the discipline, a way to gain appreciation for non-U.S., international, and philosophical topics. Coursework typically helps students develop analytic and communication skills that have lifetime benefits as preparation for a wide array of careers (including law) and active citizenship. Beyond traditional classroom experiences, majors may also engage in several experiential learning opportunities: internships in political organizations, public agencies, and community service agencies; independent research under faculty direction; participation in a department-sponsored study abroad experience. Detailed explanations of requirements and opportunities are available in the department office.

Students changing their major to political science must have completed POSC 105 with a grade of C or better and completed at least 12 additional hours of University courses. Students must have a minimum of a 2.3 average to change their major to political science. Students transferring into the major from outside the University of Delaware will have their transcripts evaluated by the Department on a case-by-case basis.

The department maintains an advisory program for prelaw students and for students interested in government service. Except as otherwise indicated, nonmajors may enroll in any political science course without prerequisites.

DEGREE: BACHELOR OF ARTS MAJOR: POLITICAL SCIENCE
CURRICULUM CREDITS
See page 56 for University and College requirements.

MAJOR REQUIREMENTS
Within the Department
POSC 105 The American Political System 3

Eighteen credits distributed as follows:

Nine credits from courses at the 400-level; nine credits from courses at the 300 or 400-level 18

A student must take at least one course numbered at the 300 or 400-level in four of the five fields listed below: (Detailed list available in department office)

a. American Government and Politics
b. Comparative Government and Politics
c. International Relations
d. Public Administration and Public Policy
e. Political Theory

Political Science courses including courses at the 200-level, POSC 302 Research Methods (Recommended), Independent Study (POSC 366, 466), POSC 438 Community Service Fieldwork or POSC 454 Fieldwork in Political Science (Internship) 9
DEGREE: BACHELOR OF ARTS
MAJOR: POLITICAL SCIENCE EDUCATION

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

POSC 105 The American Political System ........................................... 3

Eighteen credits distributed as follows: ............................................. 18

- Nine credits from courses at the 400-level; nine credits from courses at the 300 or 400-level

A student must take at least one course numbered at the 300 or 400-level in four of the five fields listed below. (Detailed list available in department office)

a. American Government and Politics
b. Comparative Government and Politics
c. International Relations
d. Public Administration and Public Policy
e. Political Theory

Political Science courses including POSC 302 Research Methods (Recommended)

No more than three courses at the 200-level can be counted toward the thirty credits required for completion of the major.

Within the College

ECON 151 Introduction to Microeconomics ....................................... 3
ECON 152 Introduction to Macroeconomics ....................................... 3
GEOG 120 World Regional Geography ............................................. 3
HIST 104 World History 1648 to Present ......................................... 3
HIST 206 U.S. History 1865 to the Present ....................................... 3

Additional credits to total 27 with nine credits in each discipline

[Geography, Economics, and History]

Professional Studies

EDST 201 Education in a Multicultural Society .................................. 3
EDST 304 Educational Psychology - Social Aspects ............................. 3
EDST 305 Educational Psychology - Cognitive Aspects ......................... 3
HIST 491 Planning a Course of Instruction ....................................... 3
HIST 493 Seminar: Problems in Teaching History and Social Sciences .... 3
EDST 420 Reading in the Content Areas .......................................... 1
EDDV 400 Student Teaching ............................................................ 9

To be eligible to student teach, Political Science Education students must have a g p a. of 3.0 in their major and an overall g p a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 127) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF ............................................. 124

DEGREE: BACHELOR OF ARTS
MAJOR: FRENCH, GERMAN, OR SPANISH/POLITICAL SCIENCE

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

French, German or Spanish/Political Science majors must complete all designated courses and any prerequisite courses (e.g., for admission to the 200-level language courses) with no grade below a C.

Within the Department of Political Science and International Relations

POSC 105 The American Political System ........................................... 3
[or other required intro courses]
POSC 240 Introduction to International Relations .............................. 3
POSC 301 Comparative Politics ....................................................... 3
POSC 441 Problems of Western European Politics by Country or
POSC 442 Problems of Western European Politics ............................. 3

3 additional courses at the 300 or 400-level with at least 2 at the 400-level and at least 2 in the area of International Relations ................................. 9

Within the Department of Foreign Languages and Literatures

In addition to completing the courses listed below, students are required to participate in a semester abroad program sponsored by the Department of Foreign Languages and Literatures (in Paris, or the equivalent, for French; in Bayreuth, or the equivalent, for German; in Granada, or the equivalent, for Spanish).

French

FREN 2xx 3xx 4xx (Prior to semester abroad; FREN 255 recommended) ....... 6
FREN 3xx 4xx .................................................................................. 12
FREN 4xx (literature) [Newark campus only] ....................................... 3

German

GRMN 2xx 3xx 4xx (Prior to semester abroad; GRMN 255 recommended) .... 6
GRMN 3xx 4xx .................................................................................. 12
GRMN 4xx (literature) [Newark campus only] ....................................... 3

Spanish

SPAN 2xx 3xx 4xx (Prior to semester abroad; SPAN 255 recommended) .... 6
SPAN 3xx 4xx .................................................................................. 12
SPAN 4xx (literature) [Newark campus only] ....................................... 3

The following courses taken abroad count toward the French, German, or Spanish/Political Science major:

Political Science

POSC 441

French

FREN 306 or FREN 406
FREN 308
FREN 355 or FREN 455

German

GRMN 306 or GRMN 406
GRMN 308
GRMN 355 or GRMN 455

Spanish

SPAN 306 or SPAN 406
SPAN 308
SPAN 355 or SPAN 455

HIST 339

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF ............................................. 124

Admission and Financial Aid

The departments of Political Science and International Relations and Foreign Languages and Literatures will jointly make decisions regarding admission of students to the program and recommendations for financial aid.

REQUIREMENTS FOR A MINOR IN POLITICAL SCIENCE

The required 15 credits for a minor are distributed as follows:

Lower-division courses: POSC 105

Field requirements. Three courses numbered 300 or above are required and must be taken in two of the five fields of political science, as indicated under requirements for the major. Two of these courses must be at the 400-level. Students are required to take one additional political science course.

REQUIREMENTS FOR A MINOR IN PUBLIC ADMINISTRATION

The required 18 credits for this minor are distributed as follows:

Lower-division course: POSC 105, 302, 303

Field requirements. Any two of three courses numbered 400 or above: Public Budgeting and Financial Management, Organization Theory, and Public Personnel Administration are required. Students are also required to take one additional course from a list of nine political science electives.
### INTERNATIONAL RELATIONS

This interdepartmental program of study includes courses in political science, economics, history, sociology, anthropology, and geography. The student follows a curriculum that is specifically oriented toward gaining an understanding of the various problems arising among nations.

Students changing their major to international relations must have completed POSC 240 with a grade of C or better and completed at least 12 additional hours of university courses. Students must have a minimum of a 2.3 average to change their major to international relations. Students transferring to the major from outside the University of Delaware will have their transcripts evaluated by the director on a case-by-case basis. For information, contact Professor James K. Oliver, 304 Smith Hall (302) 831-1942.

### DEGREE: BACHELOR OF ARTS

#### MAJOR: INTERNATIONAL RELATIONS

**CURRICULUM**

See page 56 for University and College requirements.

**MAJOR REQUIREMENTS**

**Within the Departments**

**Anthropology**
- Six credits chosen from the following courses:
  - ANTH 222 Technology and Culture
  - ANTH 225 Peasant Societies
  - ANTH 230 Peoples of the World
  - ANTH 231 Personality and Culture
  - ANTH 255 Applied Anthropology
  - ANTH 260 Sociocultural History of Africa
  - ANTH 251 Peoples and Cultures of the Middle East
  - ANTH 265 High Civilizations of the Americas
  - ANTH 269 Early Civilizations of the Old World
  - ANTH 325 Peoples of Europe
  - ANTH 327 Peoples of the Caribbean
  - ANTH 330 Development and Underdevelopment
  - ANTH 333 Peoples of Africa
  - ANTH 337 South American Indians
  - ANTH 363 Women in Cross-Cultural Perspective
  - ANTH 368 Anthropology of Slavery
  - ANTH 370 Culture of Food Production and Economic Development
  - ANTH 375 Peoples and Cultures of Modern Latin America
  - ANTH 377 Ecological Anthropology
  - ANTH 380 Peoples and Cultures of Mexico and Central America
  - ANTH 401 The Idea of Race

**Economics**
- Three credits chosen from the following courses:
  - ECON 121 Introduction to Microeconomics: Prices and Markets
  - ECON 122 Introduction to Macroeconomics: National Economy
  - ECON 340 International Economics

**Geography**
- Three credits chosen from the following courses:
  - GEOG 102 Economic History of France
  - GEOG 311 Economic History of France
  - GEOG 341 Environment of Multinational Corporations
  - GEOG 405 The Planned Economies
  - GEOG 411 Economic Theory of Developing Countries
  - GEOG 413 International Monetary Economics

**History**
- Six credits chosen from the following courses:
  - HIST 101 Western Civilization to 1648
  - HIST 102 Western Civilization 1648 to the Present
  - HIST 134 History of Africa
  - HIST 135 Introduction to Latin American History
  - HIST 137 East Asian Civilization: China
  - HIST 138 East Asian Civilization: Japan
  - HIST 210 War and Society
  - HIST 264 The Jewish Holocaust: 1933-1945
  - HIST 302 The World in Our Time
  - HIST 306 History of American Foreign Policy
  - HIST 330 Peasants and Revolution in Africa
  - HIST 334 History of Mexico
  - HIST 351 Europe in Crisis: 1919-1945
  - HIST 352 Europe in the Modern Century: 1914 to Present
  - HIST 357 Russian History to 1901
  - HIST 358 Russian History: 1801-1917
  - HIST 359 Soviet Russia: 1917-1990
  - HIST 364 Germany in the Modern Century: 1914 to Present
  - HIST 368 Modern China 1600-1920s
  - HIST 369 China Since 1900
  - HIST 373 Modern Ireland: 1534-Present
  - HIST 374 History of England to 1715
  - HIST 375 History of England: 1715 to the Present
  - HIST 376 English Legal and Constitutional History
  - HIST 392 History of Modern Japan
  - HIST 393 History of Modern Vietnam
  - HIST 394 Africa Since 1960
  - HIST 395 Pan Africanism
  - HIST 397 History of South Africa
  - HIST 470 Twentieth-Century Latin American Revolutions
  - HIST 440 Africa Under Colonial Rule
  - HIST 474 Studies in English History
  - HIST 475 Seminar in Modern European History
  - HIST 477 Studies in Latin American History
  - HIST 479 Studies in Asian History

**Political Science**
- Twelve credits chosen from the following courses:
  - POSC 240 Introduction to International Relations
  - POSC 247 Comparative Politics
  - POSC 310 European Governments
  - POSC 311 Politics of Developing Nations
  - POSC 312 East Asian Political Systems
  - POSC 313 African Foreign Policy
  - POSC 314 The Making of United States Foreign Policy
  - POSC 333 Communism, Fascism and Democracy
  - POSC 334 Liberalism and Conservatism
  - POSC 341 Environment of Multinational Corporations
  - POSC 345 Model United Nations
  - POSC 346 Model United Nations
  - POSC 347 English Legal and Constitutional History
  - POSC 348 Political Science: Unification
  - POSC 416 Transnational Relations and World Politics
  - POSC 426 Latin American Political Systems
  - POSC 427 Politics in China
  - POSC 428 Politics in Japan
  - POSC 431 Latin American Politics: Countries
  - POSC 432 Political Systems of the Post-Soviet Union
  - POSC 433 African Politics
  - POSC 441 Problems of Western European Politics by Country
  - POSC 442 Problems of Western European Politics
  - POSC 443 China and the World
  - POSC 444 Seminar in World Politics
  - POSC 445 Human Rights and World Politics
  - POSC 446 Contemporary Problems of World Politics
  - POSC 447 East European Politics
  - POSC 448 Theories of International Relations
  - POSC 450 Problems of Latin American Politics
  - POSC 463 International Institutions
  - POSC 464 Model OAS
  - POSC 477 Politics of the Arab World
  - POSC 604 International Law
  - POSC 640 International Development Policy and Administration
  - POSC 651 Communist Political Thought

**Sociology**
- Three credits chosen from the following courses:
  - SOCI 201 Introduction to Sociology
  - SOCI 210 Population Problems
  - SOCI 306 Personality and Society
  - SOCI 320 Personality and Politics
  - SOCI 360 Sociology of Religion
  - SOCI 361 Race, Power and Social Conflict
  - SOCI 380 Development and Modernization
  - SOCI 450 Women in International Development
Other
Three credits chosen from the following courses: 3
Any course included in the previous listing 3
Literature course in a foreign area 3
STAT 201 Introduction to Statistics I. 3
PHIL 102 Introduction to Philosophy 3
PHIL 201 Social and Political Philosophy 3
PHIL 202 Contemporary Moral Problems 3
PHIL 204 World Religions 3
PHIL 309 Indian Religion and Philosophy 3
PHIL 310 Chinese Religion and Philosophy 3
Course in a second foreign language 3
ARSC 127 Shaping of the Modern World 3
FREC 410 International Agricultural Trade and Marketing 3
FREC 420 Agriculture in Economic Development 3

ELECTIVES
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

PSYCHOLOGY

Psychology is a biological, behavioral, social, and applied science, whose theories are integral to an understanding of ourselves and our place in the world.

The Department of Psychology provides students with an understanding of the principles of behavior, of the scientific methods used to derive and add to those principles, and of appropriate ways in which to apply such knowledge. Experimental psychology seeks to isolate in the laboratory the basic processes involved in neural systems, learning, perception, social behavior, personality development, thinking, etc. Applied psychology focuses on methods used to approach problems in settings such as industry, government, and the general community, as well as in the field of mental health. The many aspects of theoretical, experimental and applied psychology are represented in the introductory and 300-level courses, and more advanced courses enable students to pursue special interests in greater depth. Many courses offer experience in laboratory or field research. Laboratory experiences include the study of cognitive, learning, perceptual, physiological, and social processes, and the investigation of clinically interesting phenomena. Facilities are also available, both on campus and at nearby institutions, for computer modeling of psychological processes and for data analysis.

In addition to a B.A. degree with a major in psychology, an interdepartmental major between psychology and biology with an emphasis on neuroscience is also available. Students first learn the fundamentals of biology and psychology and then concentrate on courses that examine the structure and function of the nervous system and its relationship to behavior. Detailed instructions regarding an interdepartmental major are available from the Department or the Arts and Science Admissions Center and Dean’s Office.

DEGREE: BACHELOR OF ARTS
MAJOR: PSYCHOLOGY

CURRICULUM

CREDITS

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
PSYC 201 General Psychology 3
Note that PSYC 201 is a prerequisite for all of the required higher level PSYC courses.
PSYC 309 Measurement and Statistics 3
Note that PSYC 309 must be taken after the MATH requirement is fulfilled; PSYC 309 is a prerequisite for PSYC 350, 370, 380, 390, 310, 312, 340, 345.
PSYC 415 History and Systems of Psychology 3
PSYC 415 must be taken after the student has completed the 300-level course requirements.

One of the following four courses:
PSYC 301 Personality 3
PSYC 303 Introduction to Social Psychology 3
PSYC 325 Child Psychology 3
PSYC 334 Abnormal Psychology 3

One of the following four courses:
PSYC 350 Developmental Psychology 3
PSYC 370 Research in Personality 3
PSYC 380 Psychopathology 3
PSYC 390 Social Psychology 3

Credit for the lower (e.g., PSYC 325) and higher (PSYC 350) level versions of these courses may not both be counted toward the 30 credit major. Both versions may be counted toward the 124 credits for the B.A., but if both are taken only credit for the lower numbered version will count toward the major.

For Example:
If PSYC 325 is taken, PSYC 350 cannot count towards the major.
If PSYC 301 is taken, PSYC 370 cannot count towards the major.
If PSYC 334 is taken, PSYC 380 cannot count towards the major.
If PSYC 303 is taken, PSYC 390 cannot count towards the major.

Two of the following four courses:
PSYC 310 Sensation and Perception 3
PSYC 313 Learning and Motivation 3
PSYC 314 Brain and Behavior 3
PSYC 340 Cognition 3

Two courses at or above the 400-level.
However, PSYC 466 and 468 may not be used to fulfill this requirement.
Three credits of any Psychology course (except PSYC 301, 303, 325 and 334)

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: PSYCHOLOGY EDUCATION

CURRICULUM

CREDITS

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
PSYC 201 General Psychology 3
Note that PSYC 201 is a prerequisite for all of the required higher level PSYC courses.
PSYC 309 Measurement and Statistics 3
Note that PSYC 309 must be taken after the MATH requirement is fulfilled; PSYC 309 is a prerequisite for PSYC 350, 370, 380, 390, 310, 312, 340, 345.
PSYC 415 History and Systems of Psychology 3
PSYC 415 must be taken after the student has completed the 300-level course requirements.

One of the following four courses:
PSYC 301 Personality 3
PSYC 303 Introduction to Social Psychology 3
PSYC 325 Child Psychology 3
PSYC 334 Abnormal Psychology 3

One of the following four courses:
PSYC 350 Developmental Psychology 3
PSYC 370 Research in Personality 3
PSYC 380 Psychopathology 3
PSYC 390 Social Psychology 3

Credit for the lower (e.g., PSYC 325) and higher (PSYC 350) level versions of these courses may not both be counted toward the 30 credit major. Both versions may be counted toward the 124 credits for the B.A., but if both are taken only credit for the lower numbered version will count toward the major.

For Example:
If PSYC 325 is taken, PSYC 350 cannot count towards the major.
If PSYC 301 is taken, PSYC 370 cannot count towards the major.
If PSYC 334 is taken, PSYC 380 cannot count towards the major.
If PSYC 303 is taken, PSYC 390 cannot count towards the major.

Two of the following four courses:
PSYC 310 Sensation and Perception 3
PSYC 313 Learning and Motivation 3
PSYC 314 Brain and Behavior 3
PSYC 340 Cognition 3

Two courses at or above the 400-level.
However, PSYC 466 and 468 may not be used to fulfill this requirement.
Three credits of any Psychology course (except PSYC 301, 303, 325 and 334)
Field Experience: One important feature of the program is a field experience in the applied urban studies, social welfare, health services, law and society, and data analysis concentrations. Each field experience involves placement of students in various organizations and departments related to their area of interest, including city offices and agencies, hospitals and other health care organizations, human services and welfare agencies, and law offices and research bureaus. These field placement programs are offered during the winter session and involve four hours of pass/fail course credit. This credit is considered part of the student's related studies requirement.

Over a five-week period students are placed in the field between 120 and 180 hours, depending upon the nature of the work and the need of the student. In addition, students in each field placement meet in a two-hour weekly seminar (for five weeks) to discuss and analyze their experiences.

Advantages of the Program
1. While all students will receive a B.A. degree in sociology, this program provides preprofessional training within selected areas of the student's choice.
2. The program offers future job-related experience with academic supervision and for academic credit.
3. It includes certification of these concentrations by the department, which may be beneficial in obtaining employment.
4. It offers increased flexibility for the student by allowing choices among various focused, directed concentrations.

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
SOCI 201 Introduction to Sociology
SOCI 301 Introduction of Sociological Research
SOCI 312 Theories of Society
Seven Sociology courses

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466)

Within the College
Five courses in related subjects chosen in consultation with the advisor, normally from among the following departments: Economics, Black American Studies, Criminal Justice, Geography, History, Philosophy, Political Science and International Relations, Psychology, and Statistics

ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .................. 124

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: PREGRADUATE WORK
CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department
SOCI 201 Introduction to Sociology
SOCI 301 Introduction of Sociological Research
SOCI 312 Theories of Society
Two Sociology courses at the 600-level

CREDITS TO TOTAL A MINIMUM OF .................. 124
Within the Department

MAJOR REQUIREMENTS

See page 56 for University and College requirements.

CURRICULUM.

CONCENTRATION: HEALTH SERVICE

MAJOR: SOCIOLOGY

DEGREE: BACHELOR OF ARTS

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .......................... 124

DEGREE: BACHELOR OF ARTS

MAJOR: SOCIOLOGY

CONCENTRATION: SOCIAL WELFARE

CURRICULUM

CREDITS

CONCENTRATION: LAW AND SOCIETY

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201 Introduction to Sociology
SOCI 202 Social Deviance
SOCI 204 Urban Communities
SOCI 206 Social Psychology
SOCI 210 Theories of Society
SOCI 241 Welfare and Society
SOCI 248 Theories of Social Work Practice
SOCI 252 Social Research
SOCI 256 Race, Power and Social Conflict
SOCI 282 Community Based Treatment

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses [466].

SOCI 410 Social Welfare Practicum and Seminar

This course is required but does not count as part of the thirty Sociology credits for the major.

Related Work

Eleven additional credits of related work are required and will be selected in consultation with the student's advisor. Departments offering courses filling the needs of health concentration students include Anthropology, Business Administration, Center for Science and Culture, Economics, Individual and Family Studies, Philosophy, Psychology, and Women's Studies.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .......................... 124

DEGREE: BACHELOR OF ARTS

MAJOR: SOCIOLOGY

CONCENTRATION: HEALTH SERVICE

CURRICULUM

CREDITS

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201 Introduction to Sociology
SOCI 301 Introduction of Sociological Research

SOCI 302 Social Deviance
SOCI 304 Criminology
SOCI 305 Social Class and Inequality
SOCI 308 The Family
SOCI 346 Sociology of Aging
SOCI 347 Race, Power and Social Conflict
SOCI 448 Community Based Treatment

Any five courses in Sociology, the following are recommended
SOCI 306 The Family
SOCI 310 Sociology of Health Care
SOCI 311 Hospitals
SOCI 312 Theories of Society

And five additional Sociology courses
(SOCI 341 and 348 recommended for those interested in medical social work)

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses [466].

SOCI 410 Health Services Practicum and Seminar

This course is required but does not count as part of the thirty Sociology credits for the major.

Related Work

Eleven additional credits of related work are required and will be selected in consultation with the student's advisor. Departments offering courses filling the needs of health concentration students include Anthropology, Business Administration, Center for Science and Culture, Economics, Individual and Family Studies, Philosophy, Psychology, and Women's Studies.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .......................... 124

DEGREE: BACHELOR OF ARTS

MAJOR: SOCIOLOGY

CONCENTRATION: LAW AND SOCIETY

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201 Introduction to Sociology
SOCI 202 Social Deviance
SOCI 204 Urban Communities
SOCI 206 Social Psychology
SOCI 210 Theories of Society
SOCI 252 Social Research
SOCI 256 Race, Power and Social Conflict
SOCI 282 Community Based Treatment

Any five courses in Sociology, the following are recommended
SOCI 306 The Family
SOCI 310 Sociology of Health Care
SOCI 311 Hospitals
SOCI 312 Theories of Society

And five additional Sociology courses
(SOCI 341 and 348 recommended for those interested in medical social work)

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses [466].

SOCI 410 Health Services Practicum and Seminar

This course is required but does not count as part of the thirty Sociology credits for the major.

Related Work

Eleven additional credits of related work are required and will be selected in consultation with the student's advisor. Departments offering courses filling the needs of health concentration students include Anthropology, Business Administration, Center for Science and Culture, Economics, Individual and Family Studies, Philosophy, Psychology, and Women's Studies.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .......................... 124

DEGREE: BACHELOR OF ARTS

MAJOR: SOCIOLOGY

CONCENTRATION: HEALTH SERVICE

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201 Introduction to Sociology
SOCI 301 Introduction of Sociological Research

SOCI 302 Social Deviance
SOCI 304 Criminology
SOCI 305 Social Class and Inequality
SOCI 308 The Family
SOCI 346 Sociology of Aging
SOCI 347 Race, Power and Social Conflict
SOCI 448 Community Based Treatment

Any five courses in Sociology, the following are recommended
SOCI 306 The Family
SOCI 310 Sociology of Health Care
SOCI 311 Hospitals
SOCI 312 Theories of Society

And five additional Sociology courses
(SOCI 341 and 348 recommended for those interested in medical social work)

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses [466].

SOCI 410 Health Services Practicum and Seminar

This course is required but does not count as part of the thirty Sociology credits for the major.

Related Work

Eleven additional credits of related work are required and will be selected in consultation with the student's advisor. Departments offering courses filling the needs of health concentration students include Anthropology, Business Administration, Center for Science and Culture, Economics, Individual and Family Studies, Philosophy, Psychology, and Women's Studies.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .......................... 124

DEGREE: BACHELOR OF ARTS

MAJOR: SOCIOLOGY

CONCENTRATION: LAW AND SOCIETY

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201 Introduction to Sociology
SOCI 202 Social Deviance
SOCI 204 Urban Communities
SOCI 206 Social Psychology
SOCI 210 Theories of Society
SOCI 252 Social Research
SOCI 256 Race, Power and Social Conflict
SOCI 282 Community Based Treatment

Any five courses in Sociology, the following are recommended
SOCI 306 The Family
SOCI 310 Sociology of Health Care
SOCI 311 Hospitals
SOCI 312 Theories of Society

And five additional Sociology courses
(SOCI 341 and 348 recommended for those interested in medical social work)

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses [466].

SOCI 410 Health Services Practicum and Seminar

This course is required but does not count as part of the thirty Sociology credits for the major.

Related Work

Eleven additional credits of related work are required and will be selected in consultation with the student's advisor. Departments offering courses filling the needs of health concentration students include Anthropology, Business Administration, Center for Science and Culture, Economics, Individual and Family Studies, Philosophy, Psychology, and Women's Studies.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .......................... 124
ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .......................... 124

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: DATA ANALYSIS

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201 Introduction to Sociology .................................. 3
SOCI 301 Introduction of Sociological Research ....................... 3
SOCI 312 Techniques of Sociological Research ........................ 3
SOCI 401 Advanced Sociological Methods ............................. 3
SOCI 411 Techniques of Demographic Analysis ........................ 3
SOCI 414 Data Analysis .................................................. 3

Any five other courses in Sociology .................................... 15

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (406).

SOCI 412 Practicum ....................................................... 4

This course is required but does not count as part of the thirty-three Sociology credits for the major.

Related Work

STAT 201 Introduction to Statistics I ..................................... 3
STAT 202 Introduction to Statistics II .................................... 3

Nine additional credits chosen from the following:

GEOG 250 Computer Methods in Geography ............................. 4
GEOG 470 Computer Cartography ......................................... 4
PHIL 245 Ethical Issues in Scientific Research ........................ 3
PHIL 320 Theory of Knowledge ........................................... 3
ECON 422 Econometric Methods and Models I .......................... 3
STAT 418 Sampling Methods ............................................... 3
STAT 420 Data Analysis and Nonparametric Statistics ................. 3

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .................................. 124

DEGREE: BACHELOR OF ARTS
MAJOR: CRIMINAL JUSTICE

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

CRJU 110 Introduction to Criminal Justice ............................. 3
CRJU 201 Problems of Law Enforcement ................................ 3
CRJU 202 Problems of Criminal Justice ................................ 3
CRJU 203 Problems of Corrections ....................................... 3

Criminal Justice courses at the 300 or 400-level ........................ 18

Within the College

SOCI 201 Introduction to Sociology ...................................... 3
SOCI 301 Introduction of Sociological Research ....................... 3
POSC 105 The American Political System ............................. 3
PSYC 201 General Psychology ............................................ 3

One of the following four courses:

PSYC 301 Personality ...................................................... 3
PSYC 308 Introduction to Social Psychology .......................... 3
PSYC 325 Child Psychology ................................................ 3
PSYC 334 Abnormal Psychology .......................................... 3

One of the following three courses:

POSC 402 Civil Liberties I ................................................ 3
POSC 405 Constitutional Law of the United States ..................... 3
POSC 406 Civil Liberties II ................................................. 3

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF .................................. 124
DOUBLE MAJOR OR INTERDEPARTMENTAL MAJOR

Double Major: With the permission of the dean of the college and the department chair a student may elect to fulfill requirements for two majors such as criminal justice and English (for a career in journalism), criminal justice and chemistry (for a career in forensic science), criminal justice and political science (for a career in court administration), criminal justice and psychology (for a career in corrections), or criminal justice and sociology (for a career in related fields).

STATISTICS

(See Mathematical Sciences)

THEATRE

The B.A. in Theatre Production is designed for those students who are interested in learning about the production areas of the theatre, i.e., Costume Production, Stage Management and Technical Production, and who desire the opportunity to explore these production areas through the prescribed course work and laboratory experiences of a major. Students' practical experiences in the production areas described above will include participating in the production of plays of the Professional Theatre Training Program (a graduate-level course).

The Theatre Department also offers a theatre minor designed to deepen the student's appreciation of the theatre as a liberal art. The courses are designed to give the student a foundation in the viewing of theatre, as well as the art and craft of the theatre.

The Theatre Department also provides the University with a variety of general education courses in theatre designed to expand appreciation for, and future participation in, theatre. Students interested in performance opportunities should contact the director of the theatre department.

Theatre Electives at the 300-level

THEA 104 Introduction to Theatre
THEA 226 Fundamentals of Acting
Theatre Electives at the 300-level

TOTAL CREDITS ........................................... 18

WOMEN'S STUDIES

The Women's Studies Interdisciplinary Program is designed to foster in students a knowledge of the rich heritage, challenges, and concerns of women. In addition to being a unique field of study with its own philosophies, methodologies, and materials, both the major and the minor in Women's Studies provide vehicles for examining the traditional scholarly disciplines in order to identify and correct misinformation and unexamined assumptions about "women's place" in human history. In so doing, the lives of racially and ethnically diverse men and women are examined in new and more humanistic ways, enhancing an awareness of the interplay of gender, race, and class.

This program offers introductory core courses, upper-division courses, seminars, and colloquia. An internship is also available which provides students an opportunity to integrate what they have learned in the classroom with the practical competencies which can only be gained from actual experience. Both the courses and the internship introduce and analyze areas of scholarship and knowledge which have largely been excluded from conventional disciplines.

Students may enter the program at any time. No minimum grade point average is required to begin, but students must not be on probation at the time. To join the program, students need the permission of the director, who must also approve any waiver or substitution of requirements.

DEGREE: BACHELOR OF ARTS

MAJOR: WOMEN'S STUDIES

CURRICULUM

See page 56 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

WOMS 201 Introduction to Women's Studies
WOMS/PHIL 216 Introduction to Feminist Theory

Distribution Requirements - Humanities

Six credits in Women's Studies courses cross-listed with History and/or humanities departments chosen from the following list (only sections cross-listed with WOMS):

WOMS/ART 240 Women and Art
WOMS/ENGL 240 Women and Religion
WOMS/ENGL 240 Women and Gender
WOMS/HIST 290 History of Women and Education
WOMS/ARSC 293 Honors Short Course
WOMS/HIST 300 Women in American History
WOMS/ENGL 318 Studies in Film
WOMS/EDS/T/H 290 History of Women and Education
WOMS/PHIL 324 Topics: French Literature in Translation
WOMS/PHIL 324 Topics: German Literature in Translation
WOMS/PHIL 324 Topics: Hispanic Literature in Translation
WOMS/PHIL 330 Varying Authors, Themes, and Movements
WOMS/PHIL 330 Varying Authors, Themes, and Movements
WOMS/PHIL 330 Varying Authors, Themes, and Movements
WOMS/PHIL 330 Varying Authors, Themes, and Movements
WOMS/ENGL 380 Women Writers
WOMS/ENGL 380 Women Writers
WOMS/ENGL 380 Women Writers
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WOMS/ENGL 380 Women Writers
WOMS/ENGL 380 Women Writers
WOMS/ENGL 380 Women Writers

WOMS/EDS/T/H 290 History of Women and Education
WOMS/ART 293 Honors Short Course
WOMS/PHIL 216 Introduction to Feminist Theory

TOTAL CREDITS ........................................... 18

Requirements for Minor in Theatre

THEA 104 Introduction to Theatre
THEA 226 Fundamentals of Acting
Theatre Electives at the 300-level

TOTAL CREDITS ........................................... 18

Women's Studies

The Women's Studies Interdisciplinary Program is designed to foster in students a knowledge of the rich heritage, challenges, and concerns of women. In addition to being a unique field of study with its own philosophies, methodologies, and materials, both the major and the minor in Women's Studies provide vehicles for examining the traditional scholarly disciplines in order to identify and correct misinformation and unexamined assumptions about "women's place" in human history. In so doing, the lives of racially and ethnically diverse men and women are examined in new and more humanistic ways, enhancing an awareness of the interplay of gender, race, and class.

This program offers introductory core courses, upper-division courses, seminars, and colloquia. An internship is also available which provides students an opportunity to integrate what they have learned in the classroom with the practical competencies which can only be gained from actual experience. Both the courses and the internship introduce and analyze areas of scholarship and knowledge which have largely been excluded from conventional disciplines.

Students may enter the program at any time. No minimum grade point average is required to begin, but students must not be on probation at the time. To join the program, students need the permission of the director, who must also approve any waiver or substitution of requirements.
Women's Studies
College of Arts and Science

Credits
- WOMS 201 Introduction to Women's Studies: 3 credits
- Two courses in WOMS or cross-listed with WOMS at or above the 300 level: 6 credits
- Three elective courses in WOMS or cross-listed with WOMS: 9 credits

Note: No more than 9 credits may be taken in any one department. No more than 6 credits in WOMS experimental courses (x67-numbered) may be counted toward the 18-credit requirement.

A minimum grade of C- is required in each course.

Requirements for a Minor in Women's Studies
A minimum of 18 credit hours is required, which must include the following:

- Social Sciences: 6 credits in Women's Studies courses cross-listed with social science departments chosen from the following list:
  - WOMS 401/IFST 401 Foundations of Human Sexuality: 3 credits
  - WOMS/SOCI 206 Women and Work: 3 credits
  - WOMS/SOCI 211 Men, Conflict, and Social Change: 3 credits
  - WOMS/UNG 222 Language and Gender: 3 credits
  - WOMS 240 Women and Violence: 3 credits
  - WOMS/SOCI 213 Men and Women in American Society: 3 credits
  - WOMS/SOCI 407 Sociology of Sex and Gender: 3 credits
  - WOMS/PSYC 333 Psychology of Women: 3 credits
  - WOMS/CJU 350 Women and Criminal Justice: 3 credits
  - WOMS/ANTH 363 Women in Cross-cultural Perspective: 3 credits
  - WOMS/SOCI 415 Race, Class, and Gender: 3 credits
  - WOMS/IFST 430 Teaching Family Life: 3 credits
  - WOMS/SOCI/GEOG/IFST 460 Women in International Development: 3 credits
  - WOMS/SOCI 607 Sociology of Sex and Gender: 3 credits

- Science-Related Courses: 3 credits in WOMS science-related courses chosen from the following list:
  - WOMS/CSCC 233 Women, Biology, and Medicine: 3 credits
  - WOMS/ANTH 305 The Evolution of Human Sex Roles and Reproduction: 3 credits

- Women's Studies Elective Requirements: 9 credits in courses in Women's Studies or cross-listed with Women's Studies. These may include, but are not limited to, courses listed under Women's Studies Humanities, Social Sciences, and Science-Related Courses, which have not been used to satisfy those requirements.

Electives: After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

Credits to Total a Minimum of: 124