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. The College offers major programs leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Arts in Liberal Studies, Bachelor of Fine Arts, and Bachelor of Music, as well as associate (two-year) degrees.

Undergraduate students enrolled in the College of Arts and Science may choose from a number of degree programs and options designed to permit 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 appreciation of the materials and methodologies of each area and 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 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 acquire perceptions, skills, and attitudes to assist them in achieving a full and satisfying life.

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 for Undergraduates section of this catalog.

For more information about the College of Arts and Science, please contact the Dean’s Office at (302) 831-2351, or visit the college web site at http://www.udel.edu/as/

ADVICEMENT

Students who have declared majors will be assigned an advisor who is a faculty member in the appropriate department. Undeclared stu-
students are assigned an advisor from the 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 at least once each semester 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. For more detailed information on the pass/fail grade option, see the chapter on Academic Regulations.

**Physical Education.** A maximum of two credits of HESC 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., FREN 105 course would not be counted if taken after FREN 107; similarly, MATH 115 would not be acceptable if taken after MATH 221.

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.

**COURSE OF STUDY 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 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 must 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 credits 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 21 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 are 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 (see chart on p. vi), 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. No more than 45 credits with the same departmental prefix (including cross-listed courses) may be counted toward the total required for the degree.

**CORE CURRICULUM CREDITS**

**UNIVERSITY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>3</td>
</tr>
<tr>
<td>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 710 or higher on the SAT II Writing test 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.</td>
<td></td>
</tr>
</tbody>
</table>

**MULTICULTURAL COURSE**

Three credits in an approved course or courses stressing multicultural, ethnic and/or gender-related content (see p. 57).

**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 60 credit hours. Appropriate writing courses are designated in the semester’s Registration Booklet. (See list of courses approved for second writing requirement, page 88.)

**Mathematics (one of the following)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>0.4</td>
</tr>
<tr>
<td>Contemorary Mathematics</td>
<td></td>
</tr>
<tr>
<td>(designed for students who do not intend to continue the study of mathematics)</td>
<td></td>
</tr>
<tr>
<td>MATH 114 or MATH 170</td>
<td>0.4</td>
</tr>
<tr>
<td>College Mathematics and Statistics</td>
<td></td>
</tr>
<tr>
<td>(designed for students who do not intend to continue the study of mathematics)</td>
<td></td>
</tr>
</tbody>
</table>
MATH 115 or MATH 171  Pre-Calculus
[designed for students who intend to continue the study of mathematics]
Successful completion of any mathematics course at or above the 200-level except MATH 251, MATH 252, or MATH 266
Successful performance on a proficiency test in mathematics administered by the Department of Mathematical Sciences through the College of Arts and Science Advisement Center (0 credits awarded)
The math requirement 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 an ancient or modern language. The number of credits needed and initial placement will depend on number of years of high school study of foreign 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.

**COLLEGE BREATH REQUIREMENTS**
These requirements apply to all College of Arts and Science Bachelor of Arts degrees, except for the Bachelor of Arts in Mathematics Education, for which the number of credits in each group is different than below. See page 122 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 83-87.

**BACHELOR OF SCIENCE, BACHELOR OF FINE ARTS, BACHELOR OF MUSIC**
Students whose goals indicate a high level of concentration or specialization may elect to fulfill requirements for the Bachelor of Science degree offered in a number of majors (see chart on p. vi). 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 (B.A.L.S.). The degree is designed for students who have need and justification for developing their own undergraduate major program within the 124-credit minimum. For requirements, see the listing under Liberal Studies in the alphabetical listing of majors in this chapter.

**ASSOCIATE DEGREES**
The nonterminal degrees of Associate in Arts (A.A.) and Associate in Science (A.S.) may be awarded upon application; students must apply before completing 75 credit hours. Information regarding admission requirements and eligibility for the associate degree programs may be found in the Undergraduate Admissions section of this catalog. Academic Advisement is available in the College of Arts and Science Advisement Center, 102 Elliott Hall.

The Associate in Arts represents completion of the first half of a Bachelor of Arts program; the Associate in Science, the first half of a Bachelor of Science program. 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 CREDITS**

**UNIVERSITY REQUIREMENTS**

**Writing**
ENGL 110 (minimum grade C-) .................................................. 3
or Exemption ........................................................................... 0

**Multicultural Course** (see p. 57) .................................................... 3

**SKILL REQUIREMENTS**

**Mathematics** (one of the following) .................................................. 0.4
MATH 113
or MATH 114
or MATH 115
or Proficiency Test

**Foreign Language**
Elementary Level
or Proficiency Test (0 credits awarded)

**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**
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  

UNIVERSITY REQUIREMENTS

Writing (one of the following) ........................................ 0-3
ENGL 110 (minimum grade C)  
or Exemption (0 credits awarded)

Multicultural Course (see p. 57) ........................................ 3

SKILL REQUIREMENTS

Mathematics (one of the following) .................................... 6-8
MATH 221-222  
or MATH 241-242

Foreign Language  
Required if there is a language requirement for the corresponding Bachelor of Science degree. One of the following:

Elementary Level  
or Proficiency Test (0 credits awarded)

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 ............................................. 12

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

ELECTIVES

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

DEAN'S SCHOLAR PROGRAM

Each year the College of Arts and Science considers 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, p. 166.

TEACHER EDUCATION PROGRAMS

The College of Arts and Science offers teacher education programs for students who wish to prepare themselves to be certified teachers in Delaware or in other states and the overseas dependency schools. For secondary certification (high school, junior high school, middle school), programs are offered in biology, chemistry, earth sciences, English, foreign languages (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) and Foreign Languages.

Each degree program in teacher education requires a certain minimum G.P.A. for enrollment in EDUC 400. Student Teaching, a course required for the degree. The appropriate teacher education program advisor (see list on p. 182) 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 Human Services, Education and Public Policy section of this catalog for more information, including a list of program advisors.

PRE-LAW

Students interested in admission to law school are free to major in any subject they choose. Because no single major is preferred for entry to law school, the University provides advisement and information about law school admissions through the Pre-Law Advisory Committee. The Committee's members come from different disciplines across campus, so students have a choice of advisors. The Committee is a member of the Northeast Association of Pre-Law Advisors and regularly receives and circulates information from the American Association of Law Schools. UD students enjoy a rate of acceptance into law school that is higher than the national average, according to figures released by the Law School Admission Council.

The Career Services Office provides information on internships, summer job opportunities, and volunteer opportunities in the legal profession, and sponsors an annual Law School Fair, usually held in September. There is also an active Pre-Law Student Association, which sponsors field trips and guest speakers.

For more information, consult the Advisement Committee's bulletin board on the third floor of Smith Hall or the Pre-Law web site at http://copland.udel.edu/stu-org/prelaw/. Questions may be addressed to Committee Chair Professor Leslie Goldstein, 458 Smith Hall, telephone (302) 831-1931, or by e-mail to committee advisors listed at the pre-law web site.

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 118 Wolf Hall) coordinates advisory services for all students preparing for admission to health-related professional schools. Call (302) 831-2282 for information or consult the Preprofessional Programs website at http://www.udel.edu/Biology/premed/home.html

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 accepted for admission 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 Chair of the Department of Biological Sciences.

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 below).

MEDICAL SCHOLARS PROGRAM

Designed and jointly sponsored by the University of Delaware and the Jefferson Medical College in Philadelphia to educate men and women to deal with society’s changing health care needs, this unique premedical program provides for a balanced education in liberal arts, sciences and professional studies. The curriculum includes traditional courses in science and mathematics as well as in the humanities, ethics, social sciences, economics, political sciences and health policy. Problem-based instruction, group discussions and practicums in clinical settings are unique aspects of the program. Medical Scholars receive a Bachelor of Arts in Liberal Studies degree and conditional acceptance to the Jefferson Medical College as early as their sophomore year at Delaware after completing at least a year in an interest group. For more information contact Dr. Roger Wagner at (302) 831-8195. The Medical Scholars web page is at http://www.udel.edu/MedScholars/

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 311 Renaissance Women, Society and Art
ARTH 402 Undergraduate Seminar: History of Art
ARTH 405 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 303 Honors: Genetic/Evolutionary Biology
BISC 330 Biology of Vision
BISC 450 Proseminar in Environmental Science (cross-listed with GEOG 450 and GEOL 450)
BISC 498 Topics in Biology (cross-listed with CSCC 498)

Black American Studies (BAMS)
BAMS 413 Race, Class and Gender (cross-listed with SOCI 415 and WOMS 415)
BAMS 418 Race, Gender and Poverty (cross-listed with SOCI 418)
BAMS 432 Psychological Perspectives on the Black American (cross-listed with PSYC 416)

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 PHIL 444)
CSCC 498 Topics in Biology (cross-listed with BISC 498)

Chemistry (CHEM)
CHEM 410 History of Chemistry

Communication (COMM)
COMM 311 Communication Techniques
COMM 418 Topics in Mass Communication: Broadcast Television History
COMM 438 Speech, Language and Communication
COMM 452 Communication and Persuasion
COMM 485 Analysis of Face-to-Face Communication

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

Criminal Justice (CRJU)
CRJU 312 Crime and Punishment in American History (cross-listed with HIST 312)
CRJU 428 Corporate Crime (cross-listed with SOCI 428)
CRJU 456 Lawyers and Society (cross-listed with SOCI 456)
CRJU 460 Criminal Justice Policy
CRJU 489 Crime Victims and Victims’ Rights

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 CMLT 480 and WOMS 480)

Foreign Languages and Literatures (FLIT)
FLIT 311 Twentieth-Century Literature I (cross-listed with CMLT 311)
FLIT 312 Twentieth-Century Literature II (cross-listed with CMLT 312)
FLIT 328 Topics in Japanese Literature in Translation (cross-listed with WOMS 328)
FLIT 329 Topics in Italian Literature in Translation (cross-listed with WOMS 329)
FLIT 330 Topics: Rebels and Heroes
FLIT 338 Light and Shadow - Japanese Films
FLIT 380 Topics in Japanese Culture in Translation

Geography (GEOG)
GEOG 346 Urban Cultural Geography
GEOG 445 Method and Theory in Geography
GEOG 450 Proseminar in Environmental Science (cross-listed with BISC 450 and GEOL 450)
**Geology (GEOE)**
GEOE 450 Proseminar in Environmental Science  
[cross-listed with BISC 450 and GEOG 450]

**History (HIST)**
HIST 130 Islamic Near East: 600-1500  
HIST 131 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  
HIST 303 American Intellectual History  
HIST 304 American Intellectual History  
HIST 305 Images of Race and Ethnicity in American Culture  
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 312 Crime and Punishment in American History  
[cross-listed with CRJU 312]  
HIST 313 Early Twentieth-Century America  
HIST 314 Twentieth-Century America  
HIST 315 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 Napoleon  
HIST 348 History of Spain: 1479 to Present  
HIST 349 Hispanic Societies: 1492 to Present  
HIST 352 Contemporary European Society  
HIST 353 Modern Germany: 1770 to 1919  
HIST 354 Germany in 20th Century: 1914 to Present  
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 368 Modern China: 1600-1920s  
HIST 369 China Since 1900  
HIST 370 History of Modern Japan  
HIST 372 Popular Culture in Urban Japan  
HIST 373 Modern Ireland: 1534 to Present  
HIST 377 Radicalism and Revolution: Islamic Movements in the Modern Middle East  
HIST 378 Nationalism in the Modern Middle East  
HIST 380 History of the Arab-Israeli Conflict  
HIST 385 History of Biological Ideas  
[cross-listed with CSCC 385]  
HIST 397 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]  
HIST 430 Seminar in Twentieth-Century Latin American Revolutions  
HIST 439 Women and Revolution in Africa  
[cross-listed with WOMS 439]  
HIST 440 Seminar in Africa Under Colonial Rule  
HIST 459 Seminar in United States Urban History  
HIST 471 Seminar in Medieval History  
[cross-listed with WOMS 472]  
HIST 473 Seminar in Early Modern European History  
[cross-listed with WOMS 473]  
HIST 474 Seminar in English History  
HIST 475 Seminar in Modern European History  
HIST 477 Seminar in Latin American History  
HIST 479 Seminar in Asian History  

**Music (MUSC)**
MUSC 302 Women in Music: An Alternate Survey  
[cross-listed with WOMS 302]  
MUSC 311 Music History: 400 through 1600  
MUSC 312 Music History: 1600 through 1827  
MUSC 313 Music History: 1825 to the Present  
MUSC 345 History of Theatre: American Musical Theatre  
[cross-listed with THEA 345]

**Philosophy (PHIL)**
PHIL 444 Medical Ethics  
[cross-listed with CSCC 444]  
PHIL 463 Ethical Theory  
PHIL 465 Senior Seminar  

**Political Science (POSC)**
POSC 334 Liberalism and Conservatism  
POSC 380 Introduction to Law  
POSC 387 American Political Thought  
POSC 408 International Organizations  
POSC 426 Latin American Political Systems  
POSC 433 African Politics  
POSC 434 Political Thought I  
POSC 435 Political Thought II  
POSC 436 Politics and Literature  
POSC 445 Human Rights and World Politics  
POSC 448 Theories of International Relations

**Psychology (PSYC)**
PSYC 405 Advanced Social Psychology  
PSYC 414 Drugs and the Brain  
PSYC 415 History and Systems of Psychology  
PSYC 416 Psychological Perspectives on the Black American  
[cross-listed with BAMS 432]  
PSYC 425 Topics in Child Psychology  
PSYC 445 Topics in Adolescent Psychology

**Sociology (SOCI)**
SOCI 305 Social Class and Inequality  
SOCI 355 Computers, Ethics and Society  
[cross-listed with CSCC 355]  
SOCI 415 Race, Class and Gender  
[cross-listed with BAMS 415]  
SOCI 418 Race, Gender and Poverty  
[cross-listed with BAMS 418]  
SOCI 428 Corporate Crime  
[cross-listed with CRJU 428]  
SOCI 456 Lawyers and Society  
[cross-listed with CRJU 456]

**Theatre (THEA)**
THEA 341 Theatre/Drama: Classic/Medieval  
[cross-listed with CMIT 341]  
THEA 343 Theatre/Drama: Renaissance to 1700  
[cross-listed with CMIT 342]  
THEA 344 Theatre/Drama: 1700 to 1900  
[cross-listed with CMIT 343]  
THEA 345 Theatre/Drama: 1900 to Present  
[cross-listed with CMIT 344]  
THEA 346 History of Theatre: American Musical Theatre  
[cross-listed with CSCC 345]  
THEA 410 Fundamentals of Dramaturgy

**University (UNIV)**
UNIV 490 Honors Tutorial: Humanities  
UNIV 491 Honors Tutorial: Natural/Social Science

**Women's Studies (WOMS)**
WOMS 300 Women in American History  
[cross-listed with HIST 300]  
WOMS 302 Women in Music: An Alternate Survey  
[cross-listed with MUSC 302]  
WOMS 328 Topics in Japanese Literature in Translation  
[cross-listed with FLIT 328]  
WOMS 329 Topics in Italian Literature in Translation  
[cross-listed with FLIT 329]  
WOMS 409 Varieties of Modern Feminism  
[cross-listed with HIST 409]  
WOMS 415 Race, Class and Gender  
[cross-listed with BAMS 415 and SOCI 415]  
WOMS 439 Women and Revolution in Africa  
[cross-listed with HIST 439]  
WOMS 472 Studies in Medieval History  
[cross-listed with HIST 471]  
WOMS 473 Studies in Early Modern European History  
[cross-listed with HIST 473]  
WOMS 480 Seminar  
[cross-listed with CMIT 480 and ENGL 480]

**COURSES APPROVED FOR BREADTH REQUIREMENTS**

The College of Arts and Science publishes a handbook of further information regarding the specific courses that are applicable and a detailed description of the objectives of each group. The handbook is available from the Advisement Center and Dean’s Office. Questions on the application of courses to group requirements may be directed to the Advisement Center and Dean’s Office.

**GROUP A: Analysis and Appreciation of the Creative Arts and Humanities**

**American Material Culture Studies (AMCS)**
AMCS 216 Introduction to Material Culture Studies  
[cross-listed with ANTH 216 and HIST 216]

**Anthropology (ANTH)**
ANTH 205 Anthropology and Human Nature  
ANTH 216 Introduction to Material Culture Studies  
[cross-listed with AMCS 216 and HIST 216]
ANTH 227 American Culture
ANTH 231 Personality and Culture
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
ANTH 457 Survey of African Art (cross-listed with ARTH 457)

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
ARTH 237 Art of Tibet
ARTH 457 Survey of African Art (cross-listed with ANTH 457)

Science and Culture (CSCC)
CSCC 241 Ethical Issues in Health Care (cross-listed with PHIL 241)
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 207 Introduction to Poetry
ENGL 208 Introduction to Drama (cross-listed with CMLT 201 and ENGL 208)
ENGL 209 Introduction to the Novel (cross-listed with CMLT 202 and ENGL 209)
ENGL 210 Short Story
ENGL 217 Introduction to Film (cross-listed with CMLT 217)
ENGL 314 Introduction to Folklore and Folklife (cross-listed with CMLT 314)
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 (cross-listed with CMLT 322)
FLIT 324 Topics: French Literature in Translation (cross-listed with WOMS 324)
FLIT 325 Topics: German Literature in Translation (cross-listed with WOMS 325)
FLIT 326 Topics: Hispanic Literature in Translation (cross-listed with WOMS 326)
FLIT 327 Topics: Russian Literature in Translation
FLIT 328 Topics: Japanese Literature in Translation (cross-listed with WOMS 328)
FLIT 329 Topics: Italian Literature in Translation (cross-listed with WOMS 329)
FLIT 338 Light and Shadow - Japanese Films

French (FREN)
FREN 454 French Cinema
FREN 456 French Theater Workshop

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 AMCS 216 and ANTH 216)

Jewish Studies (JWST)
JWST 380 Women Writers (cross-listed with ENGL 380 and WOMS 380)

Linguistics (LING)
LING 301 Dictionaries

Music (MUSC)
MUSC 101 Appreciation of Music
MUSC 102 Appreciation of Music
MUSC 103 Introduction to Opera
MUSC 104 Introduction to Opera II
MUSC 105 Fundamentals of Music I
MUSC 106 Fundamentals of Music II
MUSC 195 Harmony I
MUSC 196 Harmony II
MUSC 197 Jazz Harmony
MUSC 209 History of Spanish Music

Philosophy (PHIL)
PHIL 100 Philosophies of Life (cross-listed with WOMS 100)
PHIL 101 Great Western Philosophers
PHIL 102 Introduction to Philosophy
PHIL 201 Social and Political Philosophy
PHIL 202 Contemporary Moral Problems (cross-listed with WOMS 203)
PHIL 204 World Religions
PHIL 210 Women and Religion (cross-listed with WOMS 210)
PHIL 216 Introduction to Feminist Theory (cross-listed with WOMS 216)
PHIL 241 Ethical Issues in Health Care (cross-listed with CSCC 241)
PHIL 244 Philosophy of Art
PHIL 246 Philosophical Perspectives of Medicine (cross-listed with CSCC 246)
PHIL 317 American Philosophy
PHIL 444 Medical Ethics (cross-listed with CSCC 444)

Political Science (POSC)
POSC 285 Currents in Political Theory
POSC 333 Communism, Fascism, and Democracy
POSC 436 Politics and Literature

Theatre (THEA)
THEA 106 The Theatrical Experience Abroad
THEA 202 Introduction to Theatre Design
THEA 203 Introduction to Costuming
THEA 206 Introduction to Dance
THEA 410 Fundamentals of Dramaturgy

University (UNIV)
UNIV 490 Honors Tutorial: Humanities

Women's Studies (WOMS)
WOMS 100 Philosophies of Life (cross-listed with PHIL 100)
WOMS 203 Contemporary Moral Problems (cross-listed with PHIL 202)
WOMS 204 Gender and Knowledge
WOMS 205 Women in the Arts and Humanities
WOMS 208 Introduction to Drama (cross-listed with CMLT 201 and ENGL 208)
WOMS 209 Introduction to the Novel (cross-listed with CMLT 202 and ENGL 209)
WOMS 210 Women and Religion (cross-listed with PHIL 210)
WOMS 216 Introduction to Feminist Theory (cross-listed with PHIL 216)
WOMS 320 Varying Authors and Genres (cross-listed with CMLT 320 and FLIT 320)
WOMS 324 French Literature in Translation (cross-listed with FLIT 324)
WOMS 325 German Literature in Translation (cross-listed with FLIT 325)
WOMS 326 Hispanic Literature in Translation (cross-listed with FLIT 326)
WOMS 328 Topics: Japanese Literature in Translation (cross-listed with FLIT 328)
WOMS 380 Women Writers (cross-listed with ENGL 380 and JWST 380)

GROUP B: The Study of Culture and Institutions Over Time

Anthropology (ANTH)
ANTH 101 Introduction to Social and Cultural Anthropology
ANTH 105 Introduction to Historical Archaeology
ANTH 228 Peoples and Cultures of the Southwest
ANTH 260 Sociocultural History of Africa

83
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 261</td>
<td>Peoples and Cultures of the Middle East</td>
</tr>
<tr>
<td>ANTH 265</td>
<td>High Civilizations of the Americas</td>
</tr>
<tr>
<td>ANTH 278</td>
<td>Historical Cultures of the Mid-Atlantic Region (cross-listed with HIST 278)</td>
</tr>
<tr>
<td>ANTH 322</td>
<td>The City in American Culture (cross-listed with HIST 322)</td>
</tr>
<tr>
<td>ANTH 323</td>
<td>Prehistory of South America</td>
</tr>
<tr>
<td>ANTH 327</td>
<td>Peoples of the Caribbean</td>
</tr>
<tr>
<td>ANTH 375</td>
<td>Peoples and Cultures of Modern Latin America</td>
</tr>
<tr>
<td><strong>Art History (ARTH)</strong></td>
<td></td>
</tr>
<tr>
<td>ARTH 153</td>
<td>Introduction to Art History I</td>
</tr>
<tr>
<td>ARTH 154</td>
<td>Introduction to Art History II</td>
</tr>
<tr>
<td>ARTH 155</td>
<td>Asian Art</td>
</tr>
<tr>
<td>ARTH 207</td>
<td>Origins of Art</td>
</tr>
<tr>
<td>ARTH 208</td>
<td>Greek and Roman Art</td>
</tr>
<tr>
<td>ARTH 209</td>
<td>Early Medieval Art 200-1000 A.D.</td>
</tr>
<tr>
<td>ARTH 210</td>
<td>Later Medieval Art 1000-1400 A.D.</td>
</tr>
<tr>
<td>ARTH 217</td>
<td>Early Renaissance Art</td>
</tr>
<tr>
<td>ARTH 218</td>
<td>High Renaissance and Manierist Art</td>
</tr>
<tr>
<td>ARTH 220</td>
<td>Italian Renaissance Architecture</td>
</tr>
<tr>
<td>ARTH 222</td>
<td>Baroque Art</td>
</tr>
<tr>
<td>ARTH 223</td>
<td>Baroque and Rococo Architecture and Urbanism</td>
</tr>
<tr>
<td>ARTH 225</td>
<td>Eighteenth Century Art</td>
</tr>
<tr>
<td>ARTH 227</td>
<td>Modern Art I</td>
</tr>
<tr>
<td>ARTH 228</td>
<td>Modern Art II</td>
</tr>
<tr>
<td>ARTH 230</td>
<td>American Art: 1607-1865</td>
</tr>
<tr>
<td>ARTH 231</td>
<td>American Art: 1865-Present</td>
</tr>
<tr>
<td>ARTH 233</td>
<td>Art of China</td>
</tr>
<tr>
<td>ARTH 234</td>
<td>Art of Japan</td>
</tr>
<tr>
<td>ARTH 235</td>
<td>Art of India</td>
</tr>
<tr>
<td>ARTH 236</td>
<td>The Arts of Islam</td>
</tr>
<tr>
<td>ARTH 245</td>
<td>The American Home</td>
</tr>
<tr>
<td>ARTH 250</td>
<td>Rulers’ Images from Augustus to George Washington</td>
</tr>
<tr>
<td>ARTH 302</td>
<td>Prints and Society</td>
</tr>
<tr>
<td>ARTH 304</td>
<td>Northern Baroque Art</td>
</tr>
<tr>
<td>ARTH 305</td>
<td>Italian Baroque: Metaphor and Marvel</td>
</tr>
<tr>
<td>ARTH 308</td>
<td>Modern Architecture I: 1750-1900</td>
</tr>
<tr>
<td>ARTH 309</td>
<td>Modern Architecture II: 20th Century</td>
</tr>
<tr>
<td>ARTH 310</td>
<td>Role of the Artist in Society</td>
</tr>
<tr>
<td>ARTH 311</td>
<td>Renaissance Women, Society and Art</td>
</tr>
<tr>
<td>ARTH 318</td>
<td>History of Photography</td>
</tr>
<tr>
<td><strong>Black American Studies (BAMS)</strong></td>
<td></td>
</tr>
<tr>
<td>BAMS 134</td>
<td>History of Africa (cross-listed with HIST 134)</td>
</tr>
<tr>
<td>BAMS 220</td>
<td>The American Civil Rights Movement (cross-listed with HIST 220)</td>
</tr>
<tr>
<td>BAMS 304</td>
<td>History of Black America to the Civil War (cross-listed with HIST 325)</td>
</tr>
<tr>
<td>BAMS 313</td>
<td>African American Literature I (cross-listed with ENGL 344)</td>
</tr>
<tr>
<td><strong>Science and Culture (CSCC)</strong></td>
<td></td>
</tr>
<tr>
<td>CSCC 330</td>
<td>Varying Authors, Themes and Movements (cross-listed with CMIT 330, FLLT 330 and WOMS 330)</td>
</tr>
<tr>
<td>CSCC 382</td>
<td>History of Western Medicine (cross-listed with HIST 382)</td>
</tr>
<tr>
<td><strong>Comparative Literature (CMIT)</strong></td>
<td></td>
</tr>
<tr>
<td>CMIT 205</td>
<td>Great Writers of the Western World I (cross-listed with CMIT 211)</td>
</tr>
<tr>
<td>CMIT 208</td>
<td>Great Writers of the Western World II (cross-listed with CMIT 212)</td>
</tr>
<tr>
<td>CMIT 317</td>
<td>Film History (cross-listed with ENGL 317)</td>
</tr>
<tr>
<td>CMIT 321</td>
<td>Medieval Literature and Culture (cross-listed with ENGL 321)</td>
</tr>
<tr>
<td>CMIT 330</td>
<td>Varying Authors, Themes, and Movements (cross-listed with CSCC 330, FLIT 330 and WOMS 330)</td>
</tr>
<tr>
<td>CMIT 341</td>
<td>Theatre/Drama: Classic/Medieval (cross-listed with THEA 341)</td>
</tr>
<tr>
<td>CMIT 342</td>
<td>Theatre/Drama: Renaissance to 1700 (cross-listed with THEA 342)</td>
</tr>
<tr>
<td>CMIT 343</td>
<td>Theatre/Drama: 1700 to 1900 (cross-listed with THEA 343)</td>
</tr>
<tr>
<td>CMIT 344</td>
<td>Theatre/Drama: 1900 to Present (cross-listed with THEA 344)</td>
</tr>
<tr>
<td><strong>Consumer Studies (CNST)</strong></td>
<td></td>
</tr>
<tr>
<td>CNST 214</td>
<td>Costume History Before 1700</td>
</tr>
<tr>
<td>CNST 224</td>
<td>Costume Design and Production Since 1700</td>
</tr>
<tr>
<td>CNST 319</td>
<td>Dress and Culture</td>
</tr>
<tr>
<td><strong>Economics (ECON)</strong></td>
<td></td>
</tr>
<tr>
<td>ECON 315</td>
<td>Economic History of Colonial America</td>
</tr>
<tr>
<td>ECON 316</td>
<td>Economic History of the U.S.</td>
</tr>
<tr>
<td>ECON 318</td>
<td>Economic History of France</td>
</tr>
<tr>
<td><strong>English (ENGL)</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 205</td>
<td>British Literature I</td>
</tr>
<tr>
<td>ENGL 206</td>
<td>British Literature II</td>
</tr>
<tr>
<td>ENGL 211</td>
<td>Great Writers of the Western World I (cross-listed with CMIT 207)</td>
</tr>
<tr>
<td>ENGL 212</td>
<td>Great Writers of the Western World II (cross-listed with CMIT 208)</td>
</tr>
<tr>
<td>ENGL 317</td>
<td>Film History (cross-listed with CMIT 317)</td>
</tr>
<tr>
<td>ENGL 321</td>
<td>Medieval Literature and Culture (cross-listed with CMIT 321)</td>
</tr>
<tr>
<td>ENGL 340</td>
<td>American Literature to the Civil War</td>
</tr>
<tr>
<td>ENGL 341</td>
<td>American Literature: Civil War to World War II</td>
</tr>
<tr>
<td>ENGL 344</td>
<td>African American Literature I (cross-listed with BAMS 313)</td>
</tr>
<tr>
<td>ENGL 345</td>
<td>African American Literature II</td>
</tr>
<tr>
<td><strong>Foreign Languages and Literatures (FLIT)</strong></td>
<td></td>
</tr>
<tr>
<td>FLIT 330</td>
<td>Varying Authors, Themes, and Movements (cross-listed with CMIT 330, CSCC 330 and WOMS 330)</td>
</tr>
<tr>
<td>FLIT 375</td>
<td>Topics: Russian and Soviet Culture in Translation</td>
</tr>
<tr>
<td>FLIT 380</td>
<td>Topics: Japanese Culture in Translation</td>
</tr>
<tr>
<td><strong>French (FREN)</strong></td>
<td></td>
</tr>
<tr>
<td>FREN 301</td>
<td>Introduction to French Literature: Prose (to be taught in French)</td>
</tr>
<tr>
<td>FREN 302</td>
<td>Introduction to French Literature: Poetry and Theatre (to be taught in French)</td>
</tr>
<tr>
<td>FREN 325</td>
<td>French Civilization I (to be taught in French)</td>
</tr>
<tr>
<td>FREN 326</td>
<td>French Civilization II (to be taught in French)</td>
</tr>
<tr>
<td>FREN 453</td>
<td>Contemporary French Civilization</td>
</tr>
<tr>
<td><strong>Geography (GEOG)</strong></td>
<td></td>
</tr>
<tr>
<td>GEOG 225</td>
<td>Historical Geography of the United States</td>
</tr>
<tr>
<td><strong>German (GRMN)</strong></td>
<td></td>
</tr>
<tr>
<td>GRMN 311</td>
<td>Introduction to German Literature I (to be taught in German)</td>
</tr>
<tr>
<td>GRMN 312</td>
<td>Introduction to German Literature II (to be taught in German)</td>
</tr>
<tr>
<td>GRMN 325</td>
<td>German Civilization and Culture (to be taught in German)</td>
</tr>
<tr>
<td><strong>History (HIST)</strong></td>
<td></td>
</tr>
<tr>
<td>HIST 101</td>
<td>Western Civilization to 1648</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilization: 1648 to Present</td>
</tr>
<tr>
<td>HIST 103</td>
<td>World History to 1648</td>
</tr>
<tr>
<td>HIST 104</td>
<td>World History: 1648 to Present</td>
</tr>
<tr>
<td>HIST 130</td>
<td>Islamic Near East: 600-1500</td>
</tr>
<tr>
<td>HIST 131</td>
<td>Islamic Near East: 1500 to Present</td>
</tr>
<tr>
<td>HIST 134</td>
<td>History of Africa (cross-listed with BAMS 134)</td>
</tr>
<tr>
<td>HIST 135</td>
<td>Introduction to Latin American History</td>
</tr>
<tr>
<td>HIST 137</td>
<td>East Asian Civilization: China</td>
</tr>
<tr>
<td>HIST 138</td>
<td>East Asian Civilization: Japan</td>
</tr>
<tr>
<td>HIST 205</td>
<td>United States History</td>
</tr>
<tr>
<td>HIST 210</td>
<td>War and Society</td>
</tr>
<tr>
<td>HIST 220</td>
<td>The American Civil Rights Movement (cross-listed with BAMS 220)</td>
</tr>
<tr>
<td>HIST 221</td>
<td>Film and American Society</td>
</tr>
<tr>
<td>HIST 270</td>
<td>History of Modern Asia</td>
</tr>
<tr>
<td>HIST 278</td>
<td>Historic Cultures of the Mid-Atlantic Region (cross-listed with ANTH 278)</td>
</tr>
<tr>
<td>HIST 280</td>
<td>Science and Civilization</td>
</tr>
<tr>
<td>HIST 300</td>
<td>Women in American History (cross-listed with WOMS 300)</td>
</tr>
<tr>
<td>HIST 303</td>
<td>American Intellectual History</td>
</tr>
<tr>
<td>HIST 304</td>
<td>American Intellectual History</td>
</tr>
<tr>
<td>HIST 306</td>
<td>History of American Foreign Policy</td>
</tr>
<tr>
<td>HIST 315</td>
<td>Postwar America: The United States Since 1945</td>
</tr>
<tr>
<td>HIST 318</td>
<td>Colonial America</td>
</tr>
<tr>
<td>HIST 319</td>
<td>Revolutionary America</td>
</tr>
<tr>
<td>HIST 322</td>
<td>The City in American Culture (cross-listed with ANTH 322)</td>
</tr>
<tr>
<td>HIST 325</td>
<td>History of Black America to the Civil War (cross-listed with BAMS 306)</td>
</tr>
<tr>
<td>HIST 326</td>
<td>History of Black America Since the Civil War (cross-listed with BAMS 306)</td>
</tr>
<tr>
<td>HIST 330</td>
<td>Peasants and Revolution in Africa</td>
</tr>
<tr>
<td>HIST 340</td>
<td>Ancient Near East and Greece</td>
</tr>
<tr>
<td>HIST 341</td>
<td>Ancient Rome</td>
</tr>
<tr>
<td>HIST 344</td>
<td>Renaissance Europe</td>
</tr>
<tr>
<td>HIST 345</td>
<td>Europe in the Reformation Era: 1517 to 1648</td>
</tr>
<tr>
<td>HIST 348</td>
<td>History of Spain: 1479 to Present</td>
</tr>
<tr>
<td>HIST 349</td>
<td>Hispanic Societies: 1492 to Present</td>
</tr>
<tr>
<td>HIST 353</td>
<td>Modern Germany: 1770 to 1919</td>
</tr>
<tr>
<td>HIST 354</td>
<td>Germany in 20th Century: 1914 to Present</td>
</tr>
<tr>
<td>HIST 355</td>
<td>Early Modern Intellectual History</td>
</tr>
<tr>
<td>HIST 356</td>
<td>Modern European Intellectual History</td>
</tr>
<tr>
<td>HIST 359</td>
<td>Soviet Russia: 1917 to 1990</td>
</tr>
<tr>
<td>HIST 368</td>
<td>Modern China: 1600-1920s</td>
</tr>
<tr>
<td>HIST 369</td>
<td>China Since 1900</td>
</tr>
<tr>
<td>HIST 370</td>
<td>History of Modern Japan</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Postwar Japan</td>
</tr>
<tr>
<td>HIST 372</td>
<td>Popular Culture in Urban Japan</td>
</tr>
<tr>
<td>HIST 373</td>
<td>Modern Ireland: 1534-Present</td>
</tr>
<tr>
<td>HIST 374</td>
<td>History of England to 1715</td>
</tr>
<tr>
<td>HIST 375</td>
<td>History of England: 1715 to Present</td>
</tr>
<tr>
<td>HIST 377</td>
<td>Radicalism and Revolution: Islamic Movements in the Middle East</td>
</tr>
<tr>
<td>HIST 378</td>
<td>Nationalism in the Modern Middle East</td>
</tr>
<tr>
<td>HIST 380</td>
<td>History of the Arab-Israeli Conflict</td>
</tr>
<tr>
<td>HIST 382</td>
<td>History of Western Medicine (cross-listed with CSCC 382)</td>
</tr>
</tbody>
</table>
ANTH 225 Peasant Societies

ANTH 222 Technology and Culture

ANTH 225 Peasant Societies

ANTH 229 Indians of North America

ANTH 230 Peoples of the World

ANTH 255 Applied Anthropology

ANTH 259 Hunting Societies

ANTH 320 Prehistory of North America

ANTH 327 South American Indian

ANTH 370 Culture of Food Production and Economic Development

ANTH 377 Ecological Anthropology

ANTH 380 Peoples and Cultures of Mexico and Central America

Black American Studies (BAMS)

BAMS 110 Introduction to Black American Studies

BAMS 204 Urban Communities (cross-listed with SOCI 204)

BAMS 205 Contemporary Afro-American Issues

BAMS 212 Afro-Caribbean Life and Culture

BAMS 361 Race, Power, and Social Conflict (cross-listed with SOCI 361)

Science and Culture (CSCC)

CSCC 311 Sociology of Health Care

Cognitive Science (CGSC)

CGSC 270 Introduction to Cognitive Science

CGSC 330 Philosophy of the Mind (cross-listed with PHIL 330)

Communication (COMM)

COMM 200 Introduction to Human Communication Systems

COMM 245 Mass Communication and Culture

COMM 251 The Development of Oral Communication

COMM 330 Communication and Interpersonal Behavior

Consumer Studies (CNST)

CNST 200 Consumer Economics

Criminal Justice (CRJU)

CRJU 110 Introduction to Criminal Justice

CRJU 120 Illicit Drug Use in America

CRJU 201 Problems of Law Enforcement

CRJU 202 Problems of Criminal Justice

CRJU 203 Problems of Corrections

CRJU 345 Sociology of the Law (cross-listed with SOCI 345)

Economics (ECON)

ECON 100 Economic Issues and Policies

ECON 121 Introductory Microeconomics: Prices and Markets

ECON 152 Introductory Macroeconomics: National Economy

ECON 305 Comparative Economic Systems

ECON 306 Economic Theory of Politics (cross-listed with POSC 306)

ECON 311 Economics of Developing Countries

ECON 332 Economics of Government Spending and Taxation

ECON 340 International Economics

ECON 348 Industrial Policies of France

ECON 350 Government Regulation of Business

ECON 381 Economics of Human Resources

ECON 393 Urban Economics

English (ENGL)

ENGL 390 English Linguistics (cross-listed with LING 390)

Geography (GEOG)

GEOG 102 Human Geography

GEOG 120 World Regional Geography

GEOG 210 Economic Geography

GEOG 230 Humans and the Earth Ecosystem

GEOG 235 Conservation of Natural Resources

GEOG 240 Environment and Behavior

GEOG 320 Water and Society

History (HIST)

HIST 327 American Labor before Industrialization

Linguistics (LING)

LING 101 Introduction to Linguistics I

LING 102 Language, Mind and Society

LING 203 Languages of the World

LING 222 Language and Gender (cross-listed with WOMS 222)

LING 265 Studies in Language

LING 390 English Linguistics (cross-listed with ENGL 390)

Music (MUSC)

MUSC 309 Patterns of Patronage

Philosophy (PHIL)

PHIL 330 Philosophy of the Mind (cross-listed with CGSC 330)
Political Science (POSC)
POSC 106 Introduction to Political Science: Issues
POSC 150 The American Political System
POSC 220 Introduction to Public Policy
POSC 240 Introduction to International Relations
POSC 270 Comparative Politics
POSC 306 Economic Theory of Politics (cross-listed with ECON 306)
POSC 343 Society, Politics, and Health Care (cross-listed with SOCI 343)

Psychology (PSYC)
PSYC 201 General Psychology
PSYC 301 Personality
PSYC 303 Introduction to Social Psychology
PSYC 325 Child Psychology
PSYC 333 Psychology of Women (cross-listed with WOMS 333)

Sociology (SOCI)
SOCI 201 Introduction to Sociology
SOCI 202 Social Deviance
SOCI 203 The Individual and Society
SOCI 204 Urban Communities (cross-listed with BAMS 204)
SOCI 206 Women and Work (cross-listed with WAMS 206)
SOCI 209 Social Problems
SOCI 210 Population Problems
SOCI 211 Men, Conflict, and Social Change (cross-listed with WOMS 211)
SOCI 213 Men and Women in American Society (cross-listed with WOMS 213)
SOCI 308 The Family
SOCI 311 Sociology of Health Care (cross-listed with CSCC 311)
SOCI 322 Crowds, Cuts, and Revolutions
SOCI 343 Society, Politics, and Health Care (cross-listed with POSC 343)
SOCI 345 Sociology of Law (cross-listed with CRJU 345)
SOCI 361 Race, Power, and Social Conflict (cross-listed with BAMS 361)
SOCI 362 Sociology of Mass Communication
SOCI 407 Sociology of Sex and Gender (cross-listed with WAMS 407)

Women's Studies (WOMS)
WOMS 201 Introduction to Women's Studies
WOMS 202 Introduction to International Women's Studies
WOMS 206 Women and Work (cross-listed with SOCI 206)
WOMS 211 Men, Conflict, and Social Change (cross-listed with SOCI 211)
WOMS 213 Men and Women in American Society (cross-listed with WOMS 213)
WOMS 222 Language and Gender (cross-listed with LING 222)
WOMS 333 Psychology of Women (cross-listed with PSYC 333)
WOMS 407 Sociology of Sex and Gender (cross-listed with SOCI 407)

GROUP D: The Study of Natural Phenomena through Experiment or Analysis

Animal Science (ANSC)
ANSC 101 Introduction to Animal Science

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

Art History (ARTH)
ARTH 205 Science and the Detection of Art Forgeries (cross-listed with ARTH 205)

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 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 110 Viruses, Genes, and Cancer
BISC 132 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 (CGSC)
CGSC 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: Climatic Processes
GEOG 106 Physical Geography: Land Surface
GEOG 152 Climate and Life
GEOG 220 Meteorology
GEOG 250 Computer Methods in Geography

Geology (GEOG)
GEOG 105 Geological Hazards
GEOG 115 Geological Hazards Laboratory
GEOG 107 General Geology I
GEOG 108 Volcanoes and Earthquakes
GEOG 109 Planets, Asteroids and Impacts
GEOG 110 Earth History: Evolution and Geologic Record
GEOG 111 Geology of Delaware and its Neighbors
GEOG 112 Earth Resources and Public Policy

Linguistics (LING)
LING 253 Laboratory Phonetics

Marine Studies (MAST)
MAST 200 The Oceans

Mathematical Sciences (MATH)
MATH 210 Discrete Mathematics I (duplicate credit with MATH 230)
MATH 221 Calculus I (duplicate credit with MATH 241)
MATH 230 Finite Mathematics with Applications (duplicate credit with MATH 210)
MATH 241 Analytic Geometry and Calculus A (duplicate credit with MATH 221)

Musical Studies (MSST)
MSST 205 Science and the Detection of Art Forgeries (cross-listed with ARTH 205)

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 104 Elementary Physics
PHYS 133 General Concepts of Physics
PHYS 140 Great Concepts of Physics
PHYS 141 Light, Lasers, Cameras, Perception
PHYS 143 Energy, Technology, and Society
PHYS 144 Concepts of the Universe
PHYS 145 Quasars, Black Holes, and the Universe
PHYS 146 Quarks, Gluons, and the Big Bang
PHYS 147 Atoms for Everyone
PHYS 199 Exploring Physics Concepts: I
PHYS 201 Introductory Physics I
PHYS 202 Introductory Physics II
PHYS 204 Fundamentals of Physics I
PHYS 208 Fundamentals of Physics II

Geography (GEOG)
GEOG 108 Volcanoes and Earthquakes
GEOG 109 Planets, Asteroids and Impacts
GEOG 110 Earth History: Evolution and Geologic Record
GEOG 111 Geology of Delaware and its Neighbors
GEOG 112 Earth Resources and Public Policy

Animal Science (ANSC)
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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)
Plant Science (PSC)
PSC 101 Botany I
PSC 204 Introduction to Soil Science
Psychology (PSYC)
PSYC 314 Brain and Behavior (cross-listed with CGSC 314)
Science (SCEN)
SCEN 101 Physical Science (duplicate credit with PHYS 104, 201, and 207)
SCEN 102 Physical Science (duplicate credit with PHYS 202 and 208)
SCEN 103 Concepts of Science and Technology
Statistics (STAT)
STAT 201 Introduction to Statistics I (duplicate credit with STAT 205)
STAT 205 Statistical Methods (duplicate credit with STAT 201)

MAJORS AND MINORS

Every attempt has been made to present an accurate description of the curriculum requirements in the programs that follow. However, programs and policies may be changed during the academic year, and students are advised to check with the department concerned or the Advisement Center and Dean's Office, Room 102, Elliott Hall, 831-1281, for the most current information.

AFRICAN STUDIES

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.

Telephone: (302) 831-2189
http://www.udel.edu/AreaStudies/africa.html

REQUIREMENTS FOR THE MINOR IN AFRICAN STUDIES

The minor requires eighteen credit hours drawn from the list of courses below. Twelve 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
- ANTH 333 Peoples of Africa
- ANTH 368 Anthropology of Slavery
- ANTH 370 Culture of Food Production and Economic Development
- ANTH 305/657 Survey of African Art

6 credits in History, selected from the following:
- HIST 134 History of Africa
- HIST 331 Peasants and Revolution in Africa
- HIST 349 Africa Since 1960
- HIST 395 Pan Africanism
- HIST 397 History of South Africa
- HIST 439 Women and Revolution in Africa
- HIST 440 Africa Under Colonial Rule

3 credits from Black American Studies, selected from the following:
- BAMS/HIST 331 History of the Caribbean I
- HIST 332 History of the Caribbean II

3 credits from other areas, which may include:
- POSC 433 African Political Systems
- POSC/BAMS 439 Southern African Politics

AMERICAN MATERIAL CULTURE STUDIES

The College of Arts and Science offers an undergraduate minor in American Material Culture Studies, emphasizing hands-on research both in the classroom and the field. The minor engages students in the documentation and interpretation of the material world from the intimate environments of the home to the historical development of regional landscapes. Particular attention is paid to the international contexts shaping the American material world from the colonial period to the present. The interdisciplinary minor makes use of the University's rich resources in material culture studies including the University Gallery, Center for Historic Architecture and Design, and Museum Studies Program. The requirements for the minor include an internship and original research project.

Telephone: (302) 831-2243

REQUIREMENTS FOR THE MINOR IN AMERICAN MATERIAL CULTURE STUDIES

The minor in American Material Culture Studies requires 19 credit hours distributed as follows: Three core courses and an additional three courses must be selected in consultation with and approved by the student's minor advisor. These courses should represent major topical areas in American material culture studies. All three additional courses must be selected from outside the requirements of the student's major and outside his or her major department. All courses included within the minor must be completed with a grade of C- or better.

Core Courses
- ANTH/AMCS/HIST 216 Introduction to Material Culture Studies
- AMCS 402 Research and Writing Seminar
- AMCS/MSST 464 Internship

The internship must be completed no later than the student's next to last semester of study.

Area Courses
- ANTH/AMCS/HIST 216 Introduction to Material Culture Studies
- AMCS 402 Research and Writing Seminar
- AMCS/MSST 464 Internship

An additional three courses (9 credits) to be chosen from recommended offerings in American material culture studies by the departments and programs below. These courses must be at the 300-level or above. Courses must be selected from outside the student's major to represent two different departments or programs from the following:
- Anthropology, Art Conservation, Art History, Black American Studies, Consumer Studies, English, Geography, History, Museum Studies, Sociology, Women's Studies

ANTHROPOLOGY

The Department of Anthropology offers undergraduate major programs in Anthropology, including an Honors Degree option, and in Anthropology Education. In addition, interdepartmental majors with other departments are possible, and an Anthropology minor is also available.

Anthropology is the study of humans and their works. The field includes 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 retrace 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.

Telephone: (302) 831-2802
http://www.udel.edu/anthro
**DEGREE: BACHELOR OF ARTS**  
**MAJOR: ANTHROPOLOGY**

**CURRICULUM**  
**CREDITS**

See page 78 for University and College requirements.

**MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social and Cultural Anthropology courses</td>
<td>12</td>
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<tr>
<td>Biological Anthropology courses</td>
<td>6</td>
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<tr>
<td>Archaeological Anthropology courses</td>
<td>6</td>
</tr>
<tr>
<td>ANTH 486 Tutorial in Social and Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 487 Tutorial in Archaeology</td>
<td>3</td>
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<tr>
<td>or</td>
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<tr>
<td>ANTH 488 Tutorial in Physical Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

Anchrology course 3

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

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**DEGREE: BACHELOR OF ARTS**  
**MAJOR: ANTHROPOLOGY EDUCATION**

**CURRICULUM**  
**CREDITS**

See page 78 for University and College requirements.

**MAJOR REQUIREMENTS**

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Anchrology course 3

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

---

**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.

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**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.

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**ART**

The Department of Art is a studio-oriented department offering a wide range of visual arts activities and subject areas. The department offers undergraduate majors in Art (Bachelor of Arts), Fine Arts (Bachelor of Fine Arts), and Visual Communications (Bachelor of Fine Arts), as well as a minor in art. The B.A. degree requires 36 credit hours minimum of art courses and 45 credit hours maximum. The B.F.A. degree requires 69 credit hours minimum of art courses and 80 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 foundation courses and a 2.66 GPA in studio art courses. A limited number of students are admitted to the B.F.A. degree programs.

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 art 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.
The art or fine arts major may specialize in ceramics, painting, photography, printmaking, or sculpture. The visual communications major may specialize in advertising design, applied photography, graphic design, or illustration. 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.

Telephone: (302) 831-2244
http://Seurat.art.udel.edu/ArtDeptHP.html
http://DESigners.art.udel.edu

<table>
<thead>
<tr>
<th>MAJOR REQUIREMENTS</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>ART 110 Foundation Drawing I</td>
<td>3</td>
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<tr>
<td>ART 111 Foundation 2D Design</td>
<td>3</td>
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<tr>
<td>ART 112 Foundation Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 113 Foundation 3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 114 Foundation Colloquium (full semester)</td>
<td>0</td>
</tr>
<tr>
<td>ART 115 Foundation Colloquium (spring semester)</td>
<td>0</td>
</tr>
<tr>
<td>ART 114/115 Required fall and spring of freshman year</td>
<td>12</td>
</tr>
<tr>
<td>Art Electives</td>
<td>9</td>
</tr>
<tr>
<td>ART 315 Issues in Contemporary Art</td>
<td>3</td>
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<tr>
<td>ART History courses</td>
<td>6</td>
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</table>

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<tr>
<th>ELECTIVES</th>
<th>MINIMUM CREDITS</th>
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<tr>
<td>After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.</td>
<td>124</td>
</tr>
</tbody>
</table>

| Degree: Bachelor of Arts | | |
|--------------------------|-----------------------------|
| Major: ART | Credits |
| CURRICULUM | |
| See page 78 for University and College requirements. |

<table>
<thead>
<tr>
<th>MAJOR REQUIREMENTS</th>
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<td>124</td>
</tr>
</tbody>
</table>

| Degree: Bachelor of Arts | | |
|--------------------------|-----------------------------|
| Major: Fine Arts | 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. 57) | 3 |

<table>
<thead>
<tr>
<th>COLLEGE REQUIREMENTS</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Writing (minimum grade C)</td>
<td>3</td>
</tr>
</tbody>
</table>

| 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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81) |
|----------------------|------|

| Mathematics (one of the following) | 0-4 |
| MATH 113 Contemporary Mathematics | |
| MAH 114 College Mathematics and Statistics | |
| MAH 115 Pre-Calculus | |
| MAH 221 Calculus I | |
| MAH 241 Analytic Geometry and Calculus A | |

| Successful performance on the college proficiency exam (0 credits awarded) |

<table>
<thead>
<tr>
<th>Breadth Requirements (See page 82)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Group A Understanding and appreciation of the creative arts and humanities</td>
<td>9</td>
</tr>
<tr>
<td>Nine credits representing at least two areas</td>
<td></td>
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<tr>
<td>Group B The study of culture and institutions over time</td>
<td>9</td>
</tr>
<tr>
<td>Nine credits representing at least two areas</td>
<td></td>
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<tr>
<td>Group C Empirically based study of human beings and their environment</td>
<td>9</td>
</tr>
<tr>
<td>Nine credits representing at least two areas</td>
<td></td>
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<tr>
<td>Group D The study of natural phenomena through experiment and analysis</td>
<td>7</td>
</tr>
<tr>
<td>A minimum of seven credits representing at least two areas including a minimum of one course with an associated laboratory</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MAJOR REQUIREMENTS</th>
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<tbody>
<tr>
<td>NOTE: 69 credit hours minimum Art Department courses; 80 credit hours maximum Art Department courses; all grades in art must be C- or better.</td>
<td></td>
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<td>3</td>
</tr>
<tr>
<td>ART 416 Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>ART 417 BFA Exhibition</td>
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</tr>
<tr>
<td>Art History courses</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disciplines</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Students must choose one of five Fine Arts disciplines: Ceramics, Painting, Photography, Printmaking, or Sculpture. Each discipline requires 42 hours of course work. At least nine credits must be at the 400-level in each discipline.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ceramics Discipline</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 246 Beginning Silkscreen</td>
<td>3</td>
</tr>
<tr>
<td>ART 250 Beginning Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 280 Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 290 Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 350 Intermediate Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 390 Intermediate Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 391 Intermediate Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>Four additional 400-level ART courses in ceramics</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>One of the following</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 491 Ceramics Studio</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Painting Discipline</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 230 Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 231 Beginning Pointing</td>
<td>3</td>
</tr>
<tr>
<td>ART 250 Beginning Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 331 Intermediate Painting (must be taken twice)</td>
<td>3</td>
</tr>
<tr>
<td>ART 430 Drawing Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 433 Painting Studio</td>
<td>3</td>
</tr>
</tbody>
</table>

| Four additional 400-level ART courses in painting | 12 |

<table>
<thead>
<tr>
<th>One of the following</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 333 Figure Studio</td>
<td></td>
</tr>
<tr>
<td>ART 430 Drawing Studio</td>
<td></td>
</tr>
<tr>
<td>Two of the following</td>
<td></td>
</tr>
<tr>
<td>ART 341 Woodcut and Etching</td>
<td></td>
</tr>
<tr>
<td>ART 342 Introduction to Monoprinting and Papermaking Processes</td>
<td></td>
</tr>
<tr>
<td>ART 351 Intermediate Sculpture II</td>
<td></td>
</tr>
<tr>
<td>ART 380 Intermediate Photography: Black and White</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photography Discipline</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231 Beginning Pointing</td>
<td>3</td>
</tr>
<tr>
<td>ART 246 Beginning Silkscreen</td>
<td>3</td>
</tr>
<tr>
<td>ART 250 Beginning Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 280 Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 290 Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 380 Intermediate Photography: Black and White</td>
<td>3</td>
</tr>
<tr>
<td>ART 381 Intermediate Photography: Color</td>
<td>3</td>
</tr>
</tbody>
</table>
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for evaluation. Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see page 57).

MATH 113 Contemporary Mathematics (designed for students who do not intend to continue the study of mathematics)

MATH 143 College Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)

MATH 121 Calculus I

MATH 241 Analytic Geometry and Calculus A

Successful performance on the college proficiency exam (0 credits awarded)

**Breadth Requirements** (See page 82)

**Group A**

Understanding and appreciation of the creative arts and humanities

Nine credits representing at least two areas

**Group B**

The study of culture and its institutions over time

Nine credits representing at least two areas

**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

A minimum of seven credits representing at least two areas including a minimum of one course with an associated laboratory.

**MAJOR REQUIREMENTS**

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 History courses**

**Disciplines**

Students must choose one of four Visual Communications disciplines: Advertising Design, Applied Photography, Graphic Design, or Illustration. Each discipline requires 30 hours of coursework at the 400-level in each discipline.

**Advertising Design Discipline**

ART 302 Graphic Design I

ART 303 Graphic Design II

ART 304 Advertising Design I

ART 305 Advertising Design II

ART 402 Advanced Applied Design I

ART 403 Portfolio Preparation I

ART 404 Advanced Applied Design II

ART 405 Portfolio Preparation II

Two of the following

ART 230 Figure Drawing

ART 266 Beginning Silkscreen

ART 310 Applied Photography

ART 311 Applied Photographic Illustration

**Applied Photography Discipline**

ART 250 Beginning Sculpture

ART 280 Beginning Photography

ART 310 Applied Photography

ART 311 Applied Photographic Illustration

ART 412 Advanced Imagemaking I

ART 413 Imagemaking Portfolio I

ART 414 Advanced Imagemaking II

ART 415 Imagemaking Portfolio II

Two of the following

ART 303 Graphic Design II

ART 304 Advertising Design II

ART 380 Intermediate Photography: Black and White

ART 381 Intermediate Photography: Color

**Graphic Design Discipline**

ART 302 Graphic Design I

ART 303 Graphic Design II

ART 304 Advertising Design I

**Curriculum**

**Credits**

**DEGREE: BACHELOR OF FINE ARTS**

**MAJOR: VISUAL COMMUNICATIONS**
professionals who have the specialized knowledge and skills in the restoration and preservation are also required. Students in this program must study and come of art and other cultural property. Conservators are specialists 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.

-- Telephone: (302) 831-3489

http://Seurat.udeLedu/ArtConHP.html

DEGREE: BACHELOR OF ARTS
MAJOR: ART CONSERVATION
CONCENTRATION: COLLECTIONS CARE

CURRICULUM

See page 78 for University and College requirements.

CREDITS

MAJOR REQUIREMENTS (56 credits)

ARTC 301 Care and Preservation of Cultural Property I 3
ARTC 302 Care and Preservation of Cultural Property II 3
ARTC 464 Conservation Internship (one semester) 3
(Junior and/or Senior status only)
ARTC 485 Color Mixing and Matching 3
ARTC 488 Studio in the Materials and Techniques of Painting I 3
or
ARTC 489 Studio in the Materials and Techniques of Painting II 3
ARTC 480 Studio in the Materials and Techniques of Drawing in the West 3
ARTC 490 Studio in the Materials and Techniques of Printmaking I 3
MSST 403 History, Philosophy, Functions and Future of Museums 3
MSST 466 Independent Study: Museum Studies Internship 3
ART 110 Foundation Drawing 3
or
ART 130 Drawing I: Tools and Techniques 3
or
ART 138 Elementary Drawing and Painting I 3
ART 230 Figure Drawing 3
ART 290 Beginning Photography 3
or
ART 250 Beginning Sculpture 3
or
ART 290 Beginning Ceramics 3

Two courses from the following: 6
ANTH 103 Introduction to Prehistoric Archaeology
ARTH 153 Introduction to Art History I
ARTH 154 Introduction to Art History II
ARTH 155 Asian Art
ARTH 161 Art in the East and West
ARTH 162 History of Architecture
CHEM 101 General Chemistry 4
CHEM 102 General Chemistry 4

Three courses, with at least two courses at or above the 300-level, from the following: 9

ANTH 216 Introduction to Material Culture Studies
ANTH 222 Technology and Culture
ANTH 229 Indians of North America
ANTH 251 Introduction to Ethnic Arts
ANTH 324 Old World Archaeology
ANTH 338 Arts & Crafts: Native South America
ANTH 340 Historical Archaeology
ANTH 379 Historical Archaeology of the Eastern United States
ANTH 410 Archaeological Analysis of Material Culture
ANTH 451 Myth and Culture
ANTH 457 Survey of African Art
ARTC 444 Technology of Cultural Materials: Ceramics and Glass
ARTC 445 Technology of Cultural Materials: Metals
ARTH 207 Origins of Art
ARTH 208 Greek and Roman Art
ARTH 209 Early Medieval Art 200-1100 AD
ARTH 210 Later Medieval Art 1000-1400 AD
ARTH 213 Art of the Northern Renaissance

ART CONSERVATION • ARTS AND SCIENCE

ART 305 Advertising Design II 3
ART 402 Advanced Applied Design I 3
ART 403 Portfolio Preparation I 3
ART 404 Advanced Applied Design I 3
ART 405 Portfolio Preparation II 3

Two of the following: 6
ART 230 Figure Drawing
ART 246 Beginning Silkscreen
ART 310 Applied Photography
ART 311 Applied Photographic Illustration

Illustration Disciplines

ART 230 Figure Drawing 3
ART 231 Beginning Painting 3
ART 320 Illustration I 3
ART 321 Illustration II 3
ART 412 Advanced Imagemaking I 3
ART 413 Imagemaking Portfolio I 3
ART 414 Advanced Imagemaking II 3
ART 415 Imagemaking Portfolio II 3

Two of the following: 6
ART 246 Beginning Silkscreen
ART 280 Beginning Photography
ART 331 Intermediate Painting
ART 333 Figure Studio

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

The minor in art includes the fine arts disciplines of ceramics, painting, photography, printmaking, and sculpture. Students must obtain written permission from the chair before declaring the minor. Admitted students will be assigned an advisor, generally in the discipline of study. Eighteen credits are required, distributed as follows:

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

ART CONSERVATION

The Art Conservation Department offers an undergraduate major leading to the Bachelor of Arts, with two separate concentrations. Both concentrations focus on interdisciplinary study in chemistry, studio arts, and art history or anthropology with a focus on art conservation. Students must choose either the concentration in Pre-Graduate Studies for Art Conservation, which prepares students for graduate-level study in a formal academic conservation program, or the concentration in Collections Care, which prepares students for a more general art-related career, focusing on collections management and care. An Honors Degree option is available in both concentrations.

Working closely with an advisor, the students elect a concentration as well as coordinated courses in the Departments of Anthropology, Art, Art History, Chemistry and Biochemistry, and others. During their junior or senior years, majors are required to participate in one or 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.

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 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.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 217</td>
<td>Early Renaissance Art</td>
</tr>
<tr>
<td>ARTH 218</td>
<td>High Renaissance and Mannerist Art</td>
</tr>
<tr>
<td>ARTH 220</td>
<td>Italian Renaissance Architecture</td>
</tr>
<tr>
<td>ARTH 222</td>
<td>Baroque Art</td>
</tr>
<tr>
<td>ARTH 223</td>
<td>Baroque and Rococo Architecture and Urbanism</td>
</tr>
<tr>
<td>ARTH 225</td>
<td>Eighteenth Century Art</td>
</tr>
<tr>
<td>ARTH 227</td>
<td>Modern Art I</td>
</tr>
<tr>
<td>ARTH 228</td>
<td>Modern Art II</td>
</tr>
<tr>
<td>ARTH 230</td>
<td>American Art: 1607-1865</td>
</tr>
<tr>
<td>ARTH 231</td>
<td>American Art: 1865-present</td>
</tr>
<tr>
<td>ARTH 233</td>
<td>Art of China</td>
</tr>
<tr>
<td>ARTH 234</td>
<td>Art of Japan</td>
</tr>
<tr>
<td>ARTH 235</td>
<td>Art of India</td>
</tr>
<tr>
<td>ARTH 236</td>
<td>The Arts of Islam</td>
</tr>
<tr>
<td>ARTH 301</td>
<td>Research and Methodology in Art History</td>
</tr>
<tr>
<td>ARTH 302</td>
<td>Prints and Society</td>
</tr>
<tr>
<td>ARTH 304</td>
<td>Northern Baroque Art</td>
</tr>
<tr>
<td>ARTH 305</td>
<td>Italian Baroque: Metaphor and Marvel</td>
</tr>
<tr>
<td>ARTH 308</td>
<td>Modern Architecture: 1750-1900</td>
</tr>
<tr>
<td>ARTH 309</td>
<td>Modern Architecture II: The Twentieth Century</td>
</tr>
<tr>
<td>ARTH 310</td>
<td>The Role of the Artist in Society</td>
</tr>
<tr>
<td>ARTH 318</td>
<td>History of Photography</td>
</tr>
<tr>
<td>ARTH 339</td>
<td>Art &amp; Architecture of Europe</td>
</tr>
<tr>
<td>ARTHS 320</td>
<td>History of Afro-American Art</td>
</tr>
<tr>
<td>CNST 214</td>
<td>Costume History Before 1700</td>
</tr>
<tr>
<td>CNST 224</td>
<td>Clothing Design and Production Since 1700</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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**HONORS BACHELOR OF ARTS: ART CONSERVATION (Both Concentrations)**

Students wishing to receive an Honors B.A. in Art Conservation must complete:

1. All requirements for the Bachelor of Arts degree in Art Conservation.
2. All of the University’s generic requirements for the Honors Baccalaureate degree (see page 43 of this catalog).

The Honors credits required in Art Conservation include ARTC 301 and ARTC 302 and courses in such collateral disciplines as Anthropology, Art History, and Chemistry.

The Art Conservation Department will offer ARTC 301 and ARTC 302 for Honors credit in conjunction with the regular section. Students enrolled for Honors credit will be responsible for additional assignments and activities, including in-depth investigation of art and artifact technology and deterioration using visual and microscopic analysis, individual meetings with the instructor and local conserva-
tion professionals focused on current issues relating to the care and preservation of cultural property, and on-site assessment of the condition and collection care practices of local cultural institutions.

Students seeking an Honors degree will normally be expected to take ARTH 153/154 for Honors credit. Those in the Pregraduate Study Concentration will normally be expected to take CHEM 103/104 or (at least some of) CHEM 111/112 and CHEM 119/120 for Honors credit. The Honors Thesis (UNIV 401/402) will involve 6 credits of advanced-level research in Art Conservation studies.

ART HISTORY

The Department of Art History offers both an undergraduate major and a minor in art history. Because art history is an interdisciplinary field that touches on 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.

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 Preservations. Visits to 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.

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 study courses offered at the University.

Telephone: (302) 831-8415
http://Seurat.und.edu/ArtHistHP.html

DEGREE: BACHELOR OF ARTS
MAJOR: ART HISTORY

CREDITS

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

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:

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 6
Other Art History courses above 100-level 6
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

HONORS BACHELOR OF ARTS: ART HISTORY

The recipient must complete:

1. All requirements for the Bachelor of Arts degree in Art History
2. All of the University's generic requirements for the Honors Bachelor of Arts degree (see page 43 of this catalog)
3. The student's grade point average for courses in the major must be at least 3.50 at the time of graduation.

REQUIREMENTS FOR THE MINOR IN ART HISTORY

The minor in art history requires 18 credits of course work, including at least four courses above the 100-level. Students must distribute their courses among at least three different key areas of art history: 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.

ASIAN STUDIES

(See East Asian Studies)

ASTRONOMY

(See Physics and Astronomy)

BIOLOGICAL 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.

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 as majors in the biological sciences. Special advisement for these students is available through the Health Sciences Advisement and Evaluation Committee, Room 118 Wolf Hall, telephone (302) 831-2282. Students interested in marine biology are encouraged to take advantage of course and research opportunities in the Department of Biological Sciences 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 minorin in biological sciences. 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.

Telephone: (302) 831-2282
http://www.udel.edu/bio/
BIOLOGICAL SCIENCES DEGREE PROGRAMS

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 to sophomores, juniors and seniors.

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 (limit 6 credits).

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. A grade of D (not D-) or better must be obtained in chemistry, physics, and mathematics courses required for the Biological Sciences majors and minor. Biology courses at the 100-level may not be counted toward these degrees.

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; 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 of 2.5 is required for application.

Eligibility for admission to the junior year of the Biotechnology 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.

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 or the Biology Advisement Office, 118 Wolf Hall, telephone (302) 831-2282.

DEGREE: BACHELOR OF ARTS MAJOR: BIOLOGICAL SCIENCES

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

Minimum grade C required in all BISC courses for a total of at least 33 credits in biology.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISC 207/208 Introductory Biology I and II</td>
<td>8</td>
</tr>
<tr>
<td>BISC 303 Genetic and Evolutionary Biology</td>
<td>4</td>
</tr>
</tbody>
</table>

At least two of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISC 301 Molecular Biology of the Cell</td>
<td>4</td>
</tr>
<tr>
<td>BISC 302 General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 306 General Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Biology electives at the 300-level or above, including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISC 303 Genetic and Evolutionary Biology</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

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 78 for University and College requirements.

MAJOR REQUIREMENTS

Minimum grade C required in all BISC courses for a total of at least 33 credits in biology.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISC 207/208 Introductory Biology I and II</td>
<td>8</td>
</tr>
<tr>
<td>BISC 301 Molecular Biology of the Cell</td>
<td>4</td>
</tr>
<tr>
<td>BISC 303 Genetic and Evolutionary Biology</td>
<td>4</td>
</tr>
<tr>
<td>BISC 302 General Ecology</td>
<td>3-4</td>
</tr>
<tr>
<td>or BISC 306 General Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Biology electives at the 300-level or above, including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISC 303 Genetic and Evolutionary Biology</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives

Students interested 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.

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 or the Biology Advisement Office, 118 Wolf Hall, telephone (302) 831-2282.
Two courses selected from the following:

- BISC 693 Human Genetics
- BISC 617 Laboratory Techniques for Electron Microscopy
- BISC 608 Genetic Toxicology
- BISC 602 Molecular Biology of Animal Cells
- BISC 499/699 Computers in Biological Research
- BISC 604 Recombinant DNA Laboratory

MAJOR REQUIREMENTS

Minimum grade C- in BISC courses for the major

- BISC 207/208 Introductory Biology I and II ........................................... 8
- BISC 301 Molecular Biology of the Cell .................................................. 4
- BISC 303 Genetic and Evolutionary Biology .......................................... 4
- BISC 305 Cell Physiology ................................................................. 4
- BISC 371 Introduction to Microbiology ................................................. 4
- BISC 406 Recombinant DNA Laboratory ............................................. 4
- BISC 653 Recent Advances in Molecular Biology .................................. 2

Two courses selected from the following: .......................................................... 57

- BISC 499/699 Computers in Biological Research
- BISC 602 Molecular Biology of Animal Cells
- BISC 608 Genetic Toxicology
- BISC 617 Laboratory Techniques for Electron Microscopy
- BISC 650 Bacterial Physiology
- BISC 654 Biochemical Genetics
- BISC 658 Developmental Genetics
- BISC 673 Topics in Immunogenetics
- BISC 679 Virology
- BISC 693 Human Genetics

HONORS BACHELOR OF ARTS: BIOLOGICAL SCIENCES OR BIOLOGICAL SCIENCES EDUCATION

The recipient must complete:

1. All requirements for the Bachelor of Arts degree in Biological Sciences or in Biological Sciences Education.
2. All of the University's generic requirements for the Honors degree (see page 43 of this catalog).

DEGREE: BACHELOR OF SCIENCE

MAJOR: BIOLOGICAL SCIENCES

CONCENTRATION: BIOTECHNOLOGY

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. 57) .................. 3

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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

FOREIGN LANGUAGE:

Completion of the intermediate-level course (107 or 112 or 214) in a given language. The number of credits needed and initial placement will depend on number of years of high school study of foreign 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 82)

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

Minimum grade C- in BISC courses for the major

- BISC 207/208 Introductory Biology I and II ........................................... 8
- BISC 301 Molecular Biology of the Cell .................................................. 4
- BISC 303 Genetic and Evolutionary Biology .......................................... 4
- BISC 305 Cell Physiology ................................................................. 4
- BISC 371 Introduction to Microbiology ................................................. 4
- BISC 406 Recombinant DNA Laboratory ............................................. 4
- BISC 653 Recent Advances in Molecular Biology .................................. 2

Two courses selected from the following: .......................................................... 57

- BISC 499/699 Computers in Biological Research
- BISC 602 Molecular Biology of Animal Cells
- BISC 608 Genetic Toxicology
- BISC 617 Laboratory Techniques for Electron Microscopy
- BISC 650 Bacterial Physiology
- BISC 654 Biochemical Genetics
- BISC 658 Developmental Genetics
- BISC 673 Topics in Immunogenetics
- BISC 679 Virology
- BISC 693 Human Genetics

HONORS BACHELOR OF SCIENCE: BIOLOGICAL SCIENCES - BIOTECHNOLOGY

The recipient must complete:

1. All requirements for the Bachelor of Science degree in Biological Sciences - Biotechnology.
2. All of the University's generic requirements for the Honors degree (see page 43 of this catalog).

REQUIREMENTS FOR A MINOR IN BIOLOGY

The required courses are BISC 207, 208; two courses from BISC 301, 302 (or 321), 303, 371, 306 (or 276), plus additional biology courses at the 300-level or above to total 19 credits in biology; CHEM 103, 104 (or 101, 102), and 213 (or 321); 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. A grade of C- or better is required in all biology courses taken for the minor, and a D (not a D-) is required in the non-biology courses for the minor.

BLACK AMERICAN STUDIES

Black American Studies focuses on the study of Black Americans and their ancestry. Although a major in Black American Studies is not available, special arrangements within the Bachelor of Arts in Liberal Studies degree program are possible. An undergraduate minor in Black American Studies is available for those students wishing to pursue related careers in this area.

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. It explores the social, political, and economic roots of contemporary problems, seeking to relate them 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. The program serves as a catalyst for multi-ethnic and cultural understanding.

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 minor requires 18 credits, including BAMS 110, 304, 306, and one BAMS elective at or above the 300-level with the approval of an advisor, plus 2 more BAMS courses.

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. Honors Degree options are available in the B.A. in Chemistry Education, the B.S. in Chemistry, and the B.S. in Biochemistry. A minor in Chemistry is also available.

Telephone: (302) 831-1247
http://www.udel.edu/chem/chem.html

DEGREE: BACHELOR OF ARTS

MAJOR: CHEMISTRY

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

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

CHEM 103/104 General Chemistry .................................. 8
CHEM 220/221 Quantitative Analysis and Laboratory .......... 4
CHEM 111/112 General Chemistry .................................. 6
CHEM 119/120 Quantitative Chemistry I and II ................. 5
CHEM 321/322 Organic Chemistry ................................ 8
CHEM 331/332/333 Organic Chemistry and Laboratory .... 10
CHEM 437/438 Instrumental Methods and Laboratory ....... 4
CHEM 418/419/445 Introductory Physical Chemistry and Laboratory ... 7
CHEM 443/444/445 Physical Chemistry and Laboratory ....... 7

One of the following six courses: .................................. 3
CHEM 457 Inorganic Chemistry
CHEM 527 Introductory Biochemistry
CHEM 610 History of Chemistry
CHEM 620 Analytical Spectroscopy
CHEM 622 Electroanalytical Chemistry
CHEM 623 Chemometrics
CHEM 633 Advanced Organic Chemistry: Physical
CHEM 634 Advanced Organic Chemistry: Synthesis and Reactivity

MATH 221 Calculus I .................................................. 3-4
or
MATH 241 Analytic Geometry and Calculus A (strongly preferred)
PHYS 201/202 Introductory Physics I and II ................. 8
PHYS 207/208 Fundamentals of Physics I and II

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: CHEMISTRY EDUCATION

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

CHEM courses to total 30 credits minimum
CHEM 111/112 General Chemistry ................................ 6
CHEM 119/120 Quantitative Chemistry I and II ................. 5
CHEM 103/104 General Chemistry ................................ 8
CHEM 220/221 Quantitative Analysis and Laboratory ....... 4
One of the following: ................................................. 4-8

CHEM 213 Elementary Organic Chemistry
CHEM 321/322 Organic Chemistry
CHEM 331/332/333 Organic Chemistry and Laboratory
CHEM 437/438 Instrumental Methods and Laboratory ....... 4
CHEM 418/445 Introductory Physical Chemistry and Laboratory ... 4
CHEM 443/445 Physical Chemistry and Laboratory ....... 4
CHEM 214/216 Elementary Biochemistry and Laboratory ... 4
CHEM courses selected with consent of advisor ....... 0-3
BISC 207 Introductory Biology I ................................ 4
GEOI 105/115 Geological Hazards and Laboratory ....... 4
MATH 221/222 Calculus I and II .................................. 6-8
MATH 241/242 Analytic Geometry and Calculus A and B .... 6
MATH 241/242 Introductory Physical Chemistry and Laboratory ... 8
PHYS 201/202 Introductory Physics I and II ....... 8
PHYS 207/208 Fundamentals of Physics I and II

EDUC 413 Educational Psychology - Social Aspects ....... 3
EDUC 414 Educational Psychology - Cognitive Aspects ....... 3
EDUC 419 Diversity in the Classroom ......................... 3
SCEN 491 Teaching Science in Secondary Schools .......... 4
EDUC 420 Reading in the Content Areas .............. 2-3
EDUC 440 Student Teaching ....... 9
EDUC 430 Classroom Management ......................... 1

Grade of C- or better required in all required EDUC courses and SCEN 491.

To be eligible to student teach, Chemistry Education students must have a g.p.a. of 2.75 in their chemistry major and an overall g.p.a. of 2.5. They must also pass a teacher competency test as established by the University. To be eligible to student teach, Chemistry Education students must have a g.p.a. of 2.75 in their chemistry major and an overall g.p.a. of 2.5.

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

HONORS BACHELOR OF ARTS: CHEMISTRY EDUCATION

The recipient must complete:

1. All requirements for the Bachelor of Arts degree in Chemistry Education.
2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 43 of this catalog).

Note: At least eight of the twelve credits described in the University's generic requirements for the Honors Degree must be in CHEM courses. The remaining four credits must be in a required course in a related technical area, e.g., BISC.
MATH, PHYS, EDUC. CHEM courses at the 600-level or higher may be considered as Honors courses.

3. The additional requirement of a grade point index of at least 3.00 in chemistry courses at the time of graduation.

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. 57)

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 after extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Foreign Language: .................................................................................................................... 0-12
Completion of the intermediate-level course (107 or 112) in a modern foreign language. Number of credits needed and initial placement depend on number of years of high school study of 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 exemption examination (German recommended).

Breadth Requirements (See page 82)
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

Minimum 45 credits total in CHEM
CHEM 111/112 General Chemistry ................................................................. 6
CHEM 119/120 Quantitative Chemistry I and II ...................................................... 5
CHEM 331/332 Organic Chemistry ................................................................. 6
CHEM 333/334 Organic Chemistry Majors Laboratory I and II ......................... 4
CHEM 443/445 Physical Chemistry and Laboratory .......................................... 4
CHEM 457/458 Instrumental Methods and Laboratory ....................................... 4
CHEM 627/628 Introductory Biochemistry .......................................................... 3
CHEM 641 Biochemistry .......................................................................................... 3
CHEM 444/446 Physical Chemistry and Laboratory .......................................... 4
CHEM 457/458 Inorganic Chemistry and Laboratory ........................................ 4
CHEM 465 Seminar (two semesters) ................................................................. 2
Advanced Chemistry course at 600-level or higher .......................................... 3
CHEM 468 Undergraduate Research (optional) .................................................... 3
MATH 241/242/243 Analytic Geometry and Calculus A, B and C .................. 12
PHYS 201/202/208 Fundamentals of Physics I and II ........................................... 8
PHYS 207/208 Ordinary Differential Equations I and 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 .............................................................. 128

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. 57).

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 after extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Foreign Language: ................................................................. 0-12
Completion of the intermediate-level course (107 or 112) in a modern foreign language. Number of credits needed and initial placement depend on number of years of high school study of 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 exemption examination (German recommended).

Breadth Requirements (See page 82)
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

Minimum 46 credits total in CHEM
CHEM 111/112 General Chemistry ................................................................. 6
CHEM 119/120 Quantitative Chemistry I and II ...................................................... 6
CHEM 331/332 Organic Chemistry ................................................................. 6
CHEM 461 Biochemistry .......................................................................................... 3
CHEM 444/446 Physical Chemistry and Laboratory .......................................... 4
CHEM 457/458 Inorganic Chemistry and Laboratory ........................................ 4
CHEM 465 Seminar (two semesters) ................................................................. 2
Advanced Chemistry course at 600-level or higher .......................................... 3
CHEM 468 Undergraduate Research (optional) .................................................... 3
MATH 241/242/243 Analytic Geometry and Calculus A, B and C .................. 12
PHYS 201/202/208 Fundamentals of Physics I and II ........................................... 8
PHYS 207/208 Ordinary Differential Equations I and II .................................. 3

One of the following two-semester sequences: ................................................. 7-8
BISC 207/208 Introductory Biology I/II
GEOG 152/220 Climate and Life/Meteorology
GEOL 105/115 Geological Hazards and Laboratory

and

GEOL 107 General Geology

Two of the following three-credit courses: ......................................................... 6
BISC 302 General Ecology
CIEG 433 Hazardous Waste Management
CIEG 435 Industrial Wastes Management
CIEG 437/637 Water and Waste Water Quality
CIEG 632 Chemical Aspects of Environmental Engineering
CIEG 634 Physical Aspects of Environmental Engineering
CIEG 636 Biological Aspects of Environmental Engineering
GEOG 412 Physical Climatology
GEOG 420 Atmospheric Physics
GEOG 423 Atmospheric Dynamics
GEOG 421 Environmental and Applied Geology
MAST 646 Chemical Oceanography
MAST 647 Physical Chemistry of Seawater
MAST 681 Remote Sensing of Environment

PLSC 608 Soil Chemistry

CREDITS TO TOTAL A MINIMUM OF .............................................................. 128

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.
ARTS AND SCIENCE • CHEMISTRY AND BIOCHEMISTRY

REQUIREMENTS FOR A MINOR IN CHEMISTRY

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 103, 104</td>
<td>8</td>
</tr>
<tr>
<td>Any three of the following:</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 220, 221</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 321</td>
<td>4-5</td>
</tr>
<tr>
<td>CHEM 457, 458</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 418, 445</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 527 or 641</td>
<td>3</td>
</tr>
</tbody>
</table>

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

CLASSICS

(See Foreign Languages and Literatures)

COGNITIVE SCIENCE

(See Linguistics)

COMMUNICATION

The Communication Department offers an undergraduate major program in Communication, with concentrations in Interpersonal Communication and in Mass Communication. An Honors Degree option is also available.

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 communication, mass communication, organizational communication, public relations, and oral communication skills. Classes emphasize the use of theory and research to understand and analyze communication processes.

Students enter this major as communication interest majors. A 2.0 overall GPA is required to declare the communication interest major. Communication interest majors must complete the four core courses: COMM 245, 256, 301, and 330. Based on their GPA in these four courses, the top 100 students will annually be allowed to matriculate into the communication major.

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.

Telephone: (302) 831-8041
http://www.udel.edu/johnc/udcomm.html

DEGREE: BACHELOR OF ARTS
MAJOR: COMMUNICATION
CONCENTRATION: INTERPERSONAL COMMUNICATION

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

NOTE: All 4XX communication courses may be limited to COMM majors. COMM 245, 256, 301, and 330 comprise the four core courses in the communication interest major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 245</td>
<td>3</td>
</tr>
<tr>
<td>COMM 250</td>
<td>1</td>
</tr>
<tr>
<td>COMM 256</td>
<td>3</td>
</tr>
<tr>
<td>COMM 301</td>
<td>3</td>
</tr>
</tbody>
</table>

HONORS BACHELOR OF SCIENCE: CHEMISTRY OR BIOCHEMISTRY

The recipient must complete:

1. All requirements for the Bachelor of Science degree in Chemistry or Biochemistry.

2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 43 of this catalog).

   Note: Courses at the 600-level or higher in chemistry in excess of the 600-level courses required for the B.S. degree may be considered as Honors courses. Only one 3- or 4-credit required course in a related technical area may be considered as part of the twelve credits described in the University's generic requirements for the Honors Degree.

3. The additional requirement of a grade point index of at least 3.30 in chemistry courses at the time of graduation.

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

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.

Telephone: (302) 831-8041
http://www.udel.edu/johnc/udcomm.html
COMM 330 Communication and Interpersonal Behavior 3
COMM 341 Theories of Interpersonal Communication 3
COMM 350 Public Speaking 3
COMM 417 Communication and the Management of Conflict 3
COMM 483 Analysis of Face-to-Face Communication 3
One additional 400-level Interpersonal or Organizational Communication course. 3

Six to 15 COMM elective credits 6-15

for a total of not less than 37 nor more than 45 COMM credits. These may be taken from the other concentration or from the following:

**Interpersonal Communication Electives**
COMM 200 Topics: Human Communication Systems 3
COMM 251 The Development of Verbal Communication 3
COMM 343 Topics: Interpersonal Communication 3
COMM 438 Speech, Language and Communication 3
COMM 440 Topics in Interpersonal Communication 3
COMM 452 Communication and Persuasion 3

**Political Communication**
COMM 319 Topics: Politics and Broadcast Journalism 3
COMM 340 Politics and the Media 3
COMM 425 Advanced Topics: Politics and Broadcast Journalism 3

**Mass Communication Electives**
NOTE: COMM 325 is prerequisite to COMM 388 and COMM 435 3
COMM 325 Studio Television Production 3
COMM 326 Field Television Production 3
COMM 388 TV Production Practicum 3
COMM 418 Topics in Mass Communication 3
COMM 454 Children and the Mass Media 3

**Organizational Communication Electives**
COMM 356 Small Group Communication 3
COMM 442 Topics in Organizational Communication 3
COMM 456 Communication in Organizations 3

**Public Relations Electives**
NOTE: ENGL 307 is prerequisite to the following sequence and should be taken in the sophomore year 3
COMM 309 Introduction to Public Relations 3
COMM 311 Public Relations Writing 3
COMM 409 Public Relations Campaign Planning 3
COMM 413 Public Relations Management 3

**General Electives**
COMM 366/466 Independent Study/Special Problems 3
COMM 367/467 Experimental Courses not listed in Catalog 3
COMM 401 Careers in Communication 3

**ELECTIVES**
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree 3

**CREDITS TO TOTAL A MINIMUM OF** 124

**DEGREE: BACHELOR OF ARTS**
**MAJOR: COMMUNICATION**
**CONCENTRATION: MASS COMMUNICATION**

See page 78 for University and College requirements.

**MAJOR REQUIREMENTS**
NOTE: All 4XX communication courses may be limited to COMM majors. COMM 245, 256, 301, and 330 comprise the four core courses in the communication interest major 3
COMM 245 Mass Communication and Culture 3
COMM 250 Electronic Communication Skills 3
COMM 256 Principles of Communication Theory 3
COMM 301 Introduction to Communication Research Methods 3
COMM 330 Communication and Interpersonal Behavior 3
COMM 345 Legal Issues of the Mass Media 3
COMM 350 Public Speaking 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 COMM 464 3
Six to 15 COMM elective credits 6-15 for a total of not less than 37 nor more than 45 COMM credits. These may be taken from the other concentration or from the following:

**Mass Communication Electives**
NOTE: COMM 325 is prerequisite to COMM 388 and COMM 435 3
COMM 325 Studio Television Production 3
COMM 326 Field Television Production 3
COMM 388 TV Production Practicum 3
COMM 418 Topics in Mass Communication 3
COMM 454 Children and the Mass Media 3

**Organizational Communication Electives**
COMM 356 Small Group Communication 3
COMM 442 Topics in Organizational Communication 3
COMM 456 Communication in Organizations 3

**Public Relations Electives**
NOTE: ENGL 307 is prerequisite to the following sequence and should be taken in the sophomore year 3
COMM 309 Introduction to Public Relations 3
COMM 311 Public Relations Writing 3
COMM 409 Public Relations Campaign Planning 3
COMM 413 Public Relations Program Management 3

**General Electives**
COMM 366/466 Independent Study/Special Problems 3
COMM 367/467 Experimental Courses not listed in Catalog 3
COMM 401 Careers in Communication 3

**ELECTIVES**
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree 3

**CREDITS TO TOTAL A MINIMUM OF** 124

**HONORS BACHELOR OF ARTS: COMMUNICATION**
The recipient must complete:
1. All requirements for the Bachelor of Arts degree in Communication.
2. All of the University’s generic requirements for the Honors Bachelor of Arts degree (see page 43 of this catalog).

**COMPARATIVE LITERATURE**
Both an undergraduate major and a minor in Comparative Literature are available. 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 minoring 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 would...
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.

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.

Coordinator: Professor Judy P. McInnis
Foreign Languages and Literatures
Telephone: (302) 831-2597
E-mail: jmcinnis@udel.edu

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DEGREE: BACHELOR OF ARTS
MAJOR: COMPARATIVE LITERATURE

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

CLMT 202 Biblical and Classical Literature........................................ 3
(ENGL 203 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: 1850-1950............. 3
Comparative literature courses or courses in related fields approved by the advisor
Nine credits in each of two national literatures studied in the original text with at least three credits at 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

The minor requires a minimum of 18 credits, as follows:

I. Core courses in comparative literature (6 credits)
   Two of CLMT 202, 207, or 208
II. Foreign literature courses (6 credits)
III. Advanced elective-level courses studied in the original text
IV. Approved related area course (3 credits)

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DEGREE: BACHELOR OF ARTS
MAJOR: COMPUTER AND INFORMATION SCIENCES

CURRICULUM

DEGREE: BACHELOR OF ARTS
MAJOR: COMPUTER AND INFORMATION SCIENCES

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

CISC 181 Introduction to Computer Science..................................... 3
(Assumes some prior programming experience. Students without prior experience should first take CISC 105.)
CISC 220 Data Structures................................................................. 3
CISC 260 Machine Organization and Assembly Language......................... 3
CISC 280 Program Development Techniques......................................... 3
Eighteen credits of Computer Science numbered 301 or above, approved by the student's advisor
MATH 210 Discrete Mathematics I..................................................... 3
MATH 241 Analytic Geometry and Calculus A..................................... 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

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DEGREE: BACHELOR OF SCIENCE
MAJOR: COMPUTER AND INFORMATION SCIENCES

CURRICULUM

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-).................. 3
Nine credits in approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 57).

COLLEGE 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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Breadth Requirements (See page 82)
Six credits from each of the following groups...................................... 18
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

CISC 181 Introduction to Computer Science..................................... 3
(Assumes some prior programming experience. Students without prior experience should first take CISC 105.)
CISC 220 Data Structures................................................................. 3
CISC 260 Machine Organization and Assembly Language......................... 3
CISC 280 Program Development Techniques......................................... 3
CISC 301 Elements of Logic and Automata Theory.................................... 3
CISC 320 Introduction to Algorithms................................................ 3
CISC 360 Computer Architecture......................................................... 3
CISC 361 Operating Systems............................................................... 3
CISC 475 Object-oriented Software Engineering..................................... 3
Twelve credits of Computer Science numbered 301 or above, approved by the student's advisor. Three of these credits may be in Math at the 300-level or above.

Twelve credits in advanced courses in an advisor-approved CISC concentration. 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
MATH 210 Discrete Mathematics I..................................................... 3
MATH 241 Analytic Geometry and Calculus A..................................... 4
STAT 205 Statistical Methods......................................................... 4
ENGL 312 Written Communications in Business........................................ 3

or
ENGL 410 Technical Writing
CSCC 355 Computers, Ethics and Society............................................. 3
CPEG 210 Introduction to Combinatorial Logic.................................... 3
CPEG 211 Introduction to Sequential Circuits.................................... 2

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COMPUTER AND INFORMATION SCIENCES

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. In conjunction with the University Honors Program, the Department also offers a program of study leading to an Honors B.A. or an Honors B.S. with a major in Computer Science.

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 coursework and research.

Telephone: (302) 831-2712
E-mail: ugradprgm@cis.udel.edu
http://www.cis.udel.edu/
One of the following sequences of laboratory science courses: .................. 8
PHYS 207/208 Fundamentals of Physics
or
CHEM 103/104 General Chemistry
or
BISC 207/208 Introductory Biology
or
GEOI 105/115 Geological Hazards and Laboratory
and
GEOI 107 General Geology and Laboratory

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

HONORS BACHELOR OF ARTS:
COMPUTER AND INFORMATION SCIENCES

HONORS BACHELOR OF SCIENCE:
COMPUTER AND INFORMATION SCIENCES

The recipient must complete:
1. All requirements for the Bachelor of Arts degree in Computer and
Information Sciences or the Bachelor of Science in Computer and
Information Sciences.
2. All of the University's generic requirements for the Honors
Degree (see page 43 of this catalog).

Note: Certain graduate courses approved for this purpose by the
Department (e.g., CISC 601, 621, 662, 663) will count as
Honors courses in the major.
3. The student must have a cumulative grade point index of at least
3.4 at the time of registration for UNIV 401.

REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE

A minor in computer science consists of a total of 15 or more credits
including CISC 181, CISC 220, and CISC 280. Students without
prior programming experience should take CISC 105 first. Six addi-
tional credits of CISC at the 200-level or above should be chosen
with the advisor's approval. Note that the College of Arts and Sci-
ence requires a grade of C- or better in all courses counted towards a
minor.

CONTINENTAL EUROPEAN STUDIES

An interdisciplinary major in Continental European Studies, includ-
ing an Honors option, is offered jointly by the Departments of For-

gn Languages and Literatures, History, and Political Science and
International Relations. The B.A. program in Continental European
Studies prepares undergraduate students as Europeanists; accord-
ingly, it gives students a focused knowledge of the history and political
institutions of a particular European country (e.g., Italy) in a general
European context, together with the linguistic skills required to
engage in a rigorous program of research or graduate-level studies in
the target country and to discharge their future professional responsi-
bilities competently and successfully. Students will acquire a unique
cultural perspective of the target country, combining several disci-
plines into a sharply defined major.

Students enrolled in this program will enhance their knowledge
and their experience with the civilization of the country they propose
to study, and provide themselves with the tools they will need in such
future undertakings as graduate school, government or other inter-
national agencies, international law, or commercial enterprises with an
international orientation.

Students in other majors who wish to change their major to
Continental European Studies must have a minimum grade point
average of 2.3. Students transferring into the major from outside the
University of Delaware will have their transcripts evaluated on a
case-by-case basis.

Study abroad is strongly recommended for students in this
program.

Coordinator: Professor Theodore E.D. Braun

Foreign Languages and Literatures

Telephone: (302) 831-2038

E-mail: braun@udel.edu

http://www.udel.edu/fllt/lang/french/euro.html

DEGREE: BACHELOR OF ARTS
MAJOR: CONTINENTAL EUROPEAN STUDIES

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

Foreign Languages and Literatures:
12 credit hours of work at the 200-level and above in a European foreign
language (French, German, Italian, Russian, and Spanish), as follows:
3 credits at the 200-level
3 credits at the 200- or 300-level
3 credits in continental literature at the 300-level
3 credits in continental civilization at the 300- or 400-level

History:
12 credit hours of work in History courses as follows:
HIST 101 or 102 Western Civilization 3
3 additional credits of History at the 200-, 300- or 400-level
6 additional credits of History at the 300- or 400-level

The 200-, 300-, and 400-level History courses will be drawn from cours-
es such as the following, depending on the student's specialization:
HIST 210, 241, 245, 250, 339, 342, 343, 344, 345, 346, 347, 348,
350, 351, 352, 353, 354, 355, 356, 357, 358, 359, plus 400-level
History courses, with the prior approval of the advisor

Political Science and International Relations:
12 credit hours of work in Political Science courses, as follows:
POSC 270 Comparative Politics 3
One of the following two courses: 3
POSC 310 European Governments
POSC 372 East Central European Politics

Two of the following: 6
POSC 432 Political Systems of the Post-Soviet Union
POSC 441 Problems of Western European Politics by Country
POSC 442 Problems of Western European Politics
POSC 300- or 400-level topics courses with European content,
as approved by the program advisor

Nine credits of work in any combination of courses in the
foreign language, History, Political Science, or in related fields (such
as Art History, Geography, Music), all with the prior consent of
the student's advisor. The Honors thesis or Degree with Distinc-
tion thesis can be included in this category.

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

HONORS BACHELOR OF ARTS:
CONTINENTAL EUROPEAN STUDIES

The requirements for the Honors B.A. in Continental European
Studies are:
1. All requirements for the B.A. in Continental European
Studies.
2. All the University's generic requirements for the Honors Degree
(see page 43 of this catalog). The Honors credits in the major shall
come from at least two different participating departments, and
shall include at least two courses at the 300-level or above.
3. The cumulative grade point average for all courses in the major
must be at least 3.400.

DEGREE: BACHELOR OF ARTS
MAJOR: CONTINENTAL EUROPEAN STUDIES
### EAST ASIAN STUDIES

An interdisciplinary major in East Asian Studies, including an Honors option, is offered jointly by several departments in the College of Arts and Science. In addition, a minor in East Asian Studies is available.

The B.A. program in East Asian Studies prepares undergraduate students as East Asian studies specialists; accordingly, it provides students with training in the history, political institutions, and culture of a particular East Asian country (e.g., China or Japan) in a general East Asian context, together with the linguistic skills required to engage in a rigorous program of research or graduate-level studies in the target country, and to discharge their future professional responsibilities competently and successfully. Students will acquire a unique cultural perspective of the target country, combining several disciplines into a sharply defined major.

Students enrolled in this program will enhance their knowledge and understanding of the civilizations of the country they choose to study, and provide themselves with the tools they will need in such future undertakings as graduate school, government or other international agencies, international law, or commercial enterprises with an international orientation. Students in this program may choose a second major offered by such departments as art history, economics, history, music, philosophy, and political science.

Students in other majors who wish to change their major to East Asian Studies must have a minimum grade point average of 2.3. Students transferring into the major from outside the University of Delaware will have their transcripts evaluated on a case-by-case basis.

Study abroad is strongly recommended for students in this program.

### UNDERGRADUATE

**CREDITS TO TOTAL A MINIMUM OF**

124

**HONORS BACHELOR OF ARTS: EAST ASIAN STUDIES**

The requirements for the Honors B.A. in East Asian Studies include:

1. All requirements for the B.A. in East Asian Studies.
2. All the University’s generic requirements for the Honors Degree (see page 43 of this catalog). The Honors credits in the major shall come from at least two different participating departments, and shall include at least two courses at the 300-level or above.
3. The successful completion of the two courses (6 credit hours) required to produce an Honors Thesis. This requirement would be in addition to the 31 or 32 credit hours required for the East Asian Studies major, to yield a total of 37 or 38 credit hours.
4. The cumulative grade point average for all courses in major must be at least 3.400.

**REQUIREMENTS FOR A MINOR IN EAST ASIAN STUDIES**

This is an interdisciplinary minor 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, 224 John Munroe Hall, dpong@udel.edu, (302) 831-2371.

### EAST ASIAN STUDIES MINOR WITHOUT LANGUAGE

**Number of credits required:**

..................... 18

A minimum grade of C- is required in all courses.

6 credits in two disciplines from the following courses in the humanities:

- ARTH 155 Asian Art
- ARTH 161 Art in East and West
- ARTH 234 Japanese Culture in Translation
- HIST 333 The Age of Confucius
- MUSC 206 Music of China, Korea, and Japan
- PHIL 310 Chinese Religion and Philosophy

6 credits from the following courses in the social sciences:

- HIST 137 East Asian Civilization: China
- HIST 138 East Asian Civilization: Japan
- HIST 270 History of Modern Asia
- HIST 390 History of Modern Southeast Asia
- POSC 312 East Asian Political Systems

6 credits from the following courses in economics, history, linguistics, and political science:

- ECON 3xx East Asian Economic Systems
- HIST 368 Modern China: 1600-1920s
- HIST 369 China Since 1940
- HIST 370 History of Modern Japan
- HIST 393 History of Modern Vietnam
- HIST 3xx China and the West

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### DEGREE: BACHELOR OF ARTS

**MAJOR: EAST ASIAN STUDIES**

#### CURRICULUM

See page 78 for University and College requirements.

**MAJOR REQUIREMENTS (31 or 32 credits)**

One of the following options (A or B):

**A. Concentration in China or Japan (7 credits total)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 107 Chinese III - Intermediate</td>
<td>4</td>
</tr>
<tr>
<td>JAPN 107 Japanese III - Intermediate</td>
<td>4</td>
</tr>
<tr>
<td>Plus 3 credit hours at the 200-level or above in Chinese or in Japanese (including JAPN 200, 205, 206, or 209)</td>
<td>3</td>
</tr>
</tbody>
</table>

**B. Joint Chinese/Japanese Concentration (8 credits total)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 107 Chinese III - Intermediate</td>
<td>4</td>
</tr>
<tr>
<td>JAPN 107 Japanese III - Intermediate</td>
<td>4</td>
</tr>
</tbody>
</table>

For both concentrations:

**HIST 137 East Asian Civilization: China**

**HIST 138 East Asian Civilization: Japan**

**PHIL 310 Chinese Religion and Philosophy**

**POSC 312 East Asian Political Systems**

Choose one of the following courses:

**ARTH 155 Asian Art**

**JAPN 204 The Art of Japanese Calligraphy**

**MUSC 206 Music of China, Korea, and Japan**

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#### EARTH SCIENCE EDUCATION

See Geology.

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**CRIMINAL JUSTICE**

See Sociology and Criminal Justice.
MAJOR REQUIREMENTS
Minimum C- in all required ECON courses.
ECON 152 Introductory Macroeconomics: National Economy
ECON 301 Quantitative Microeconomic Theory
ECON 302 Banking and Monetary Policy
ECON 303 Intermediate Macroeconomic Theory
ECON 311 Quantitative Microeconomic Theory
ECON 402 Money and Banking
ECON 403 Intermediate Macroeconomics
ECON 404 Econometrics
ECON 405 Mathematical Economics

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 544 and ECON 444; ECON 360 and ECON 463; and ECON 381 and ECON 483.

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

DEGREE: BACHELOR OF ARTS
MAJOR: ECONOMICS
CONCENTRATION: APPLIED ECONOMICS
The requirements for the major in Economics must be met. The following requirements must be met in place of the requirement for five Economics courses, with at least two at the 400-level:
ECON 422/423 Econometric Methods and Models I and II 6
or
ECON 822/823 Econometric Theory/Seminar in Econometrics
Two Economics courses at the 300- or 400-level 6
One Economics course at the 400-level (but not ECON 403, ECON 405, ECON 408, or ECON 411) 3
One Economics course at the 400-level, or at the 500-level by approval (but not ECON 403, ECON 405, ECON 408, or ECON 411) 3
Twelve credits of course work in the quantitative area, including the following 12
ACCT 261 Introduction to Business Information Systems II (prerequisite ACCT 160)
Six credits in MATH at or above the 200-level (except MATH 251 or MATH 252)
Any one of the following: ACCT 208, BUAD 306, BUAD 346, BUAD 446, BUEC 430, BUEC 431, ECON 415, ECON 422, ECON 423, ECON 426, STAT courses at or above the 300-level, CISC courses at or above the 300-level.

DEGREE: BACHELOR OF ARTS
MAJOR: ECONOMICS
CONCENTRATION: ECONOMIC THEORY AND ECONOMETRICS
The requirements for the major in Economics must be met. The following requirements must be met in place of the requirement for five Economics courses, with at least two at the 400-level:
ECON 422/423 Econometric Methods and Models I and II 6
or
ECON 822/823 Econometric Theory/Seminar in Econometrics
Three Economics courses at the 300- or 400-level 9
One Economics course at the 400-level, or a Mathematics course at the 300-level (but not ECON 406, ECON 426, ECON 430, ECON 441, ECON 443, ECON 461, or ECON 463) 3
One Economics course at the 400-level, or at the 600-level by approval (but not ECON 403, ECON 405, ECON 408, or ECON 411) 3
Twelve credits of course work in the quantitative area, including the following 12
ACCT 261 Introduction to Business Information Systems II (prerequisite ACCT 160)
Six credits in MATH at or above the 200-level (except MATH 251 or MATH 252)
Any one of the following: ACCT 208, BUAD 306, BUAD 346, BUAD 446, BUEC 430, BUEC 431, ECON 415, ECON 422, ECON 423, ECON 426, STAT courses at or above the 300-level, CISC courses at or above the 300-level.
DEGREE: BACHELOR OF ARTS
MAJOR: ECONOMICS EDUCATION

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

Minimum C- in all required ECON courses.

- ECON 151 Introductory Microeconomics: Prices and Markets .................. 3
- ECON 152 Introductory Microeconomics: National Economy .................. 3
- ECON 300 Intermediate Microeconomic Theory ........................................ 3
- or ECON 301 Quantitative Microeconomic Theory .................................. 3
- ECON 302 Banking and Monetary Policy ................................................. 3
- ECON 303 Intermediate Macroeconomic Theory .................................... 3

Five Economics courses, at least two of which are at or above the 400 level

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

Additional credits as follows:

- 6 credits in POSC, 6 credits in GEOG, 3 credits in HIST

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. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see list on p. 182) to obtain the student teaching application and other information concerning student teaching policies.

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

HONORS BACHELOR OF ARTS:
ECONOMICS OR ECONOMICS EDUCATION

The recipient must complete:

1. All requirements for the Bachelor of Arts in Economics or in Economics Education in the College of Arts and Science.
2. All the University’s generic requirements for the Honors Degree (see page 43 of this catalog).
3. The courses in Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory must be taken in Honors sections.
4. Courses in Economics at the 600 level or higher may be considered as Honors courses.

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 creative writing, journalism, film, drama, ethnic and cultural studies, or business/technical writing, or, if they meet the admission requirements, may elect the program in English education.

Students may declare or withdraw from a concentration at any time. To be eligible to take News Writing and Editing (ENGL 307) students must have received a B or better in ENGL 110. Admission to the Creative Writing concentration is contingent upon successful completion of an introductory level writing workshop in poetry, fiction, or script writing, submission of a dossier demonstrating the quality of writing in at least one genre (poetry, fiction, script writing),

and recommendation from a creative writing faculty member. To be eligible to student teach in the English Education program, students must maintain a minimum overall grade point index of 2.75 and 3.0 in the major.

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 journalism concentrators 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 drama concentration allows students to earn the English degree with an emphasis on the study of the theatre and its literature. The ethnic and cultural studies concentration emphasizes multicultural literatures in the Americas, folklore, and media studies. 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 major in English education prepares students to teach English in 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, 408, and 409 may be counted only as part of the journalism concentration; ENGL 312, 410, 411, 412, 413, 414, 415, and 464 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.

To be eligible to student teach in the English Education program, students must maintain a minimum overall grade point index of 2.75 and 3.0 in the major.

DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

Five of the following six courses:

- ENGL 202 Biblical and Classical Literature
- ENGL 203 British Literature I
- ENGL 206 British Literature II
- ENGL 300 Texts and Contexts
- ENGL 324 Shakespeare
- ENGL 340 or ENGL 341 American Literature

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

- 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
- English courses at or above the 300-level ........................................... 12
- English courses at or above the 200-level ........................................... 3

All English majors must take at least one ENGL 480 seminar and count only one 200-level elective course (excluding those in the core or in addition to those counted in the core) 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
At least three courses chosen from among the following courses, in two genres: 9

- Modern Literature
- One course at the 200-level or above in a literary genre
- 480 seminar

ENGL 306 Topics in Writing: Scriptwriting
ENGL 305 Fiction Writing

One other literature course is required. This course may be at the 200-, 300-, or 400-level.

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 or ENGL 341 American Literature

Nine credits at the 300-level or above distributed as follows: 9

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: 3

- ENGL 312 Written Communications in Business
- ENGL 410 Technical Writing
- ENGL 415 Writing for the Professions

ENGL 340 or ENGL 341 American Literature

Three additional courses approved by the Faculty Advisor, 9

ENGL 307, 308, 309, 310, 407, 408, 409 count toward the English major only as part of the concentration in Journalism; ENGL 312, 410, 411, 412, 413, 414, 415, 464 count toward the English major only as part of the concentration in Business and Technical Writing; ENGL 200, 204, 210, 301, 365 do not count toward the English 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
Nine credits at the 300-level or above, distributed as follows: 9
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
ENGL 379 Introduction to Ethnic and Cultural Studies 3
ENGL 382 Studies in Multicultural Literature (may be repeated for credit when topics differ) 3
Two other courses at the 300-level or above, to be chosen in consultation with the student's concentration advisor 6
All English/Ethnic and Cultural Studies 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.

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH
CONCENTRATION: FILM

CURRICULUM CREDITS
See page 78 for University and College requirements.

MAJOR REQUIREMENTS
Five of the following six courses: 15
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 or ENGL 341 American literature
Nine credits at the 300-level or above distributed as follows: 9
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
ENGL 217 Introduction to Film 3
ENGL 317 Film History 3
ENGL 318 Studies in Film (variable content, may be repeated once) 3
ENGL 417 Film Theory and Criticism 3
All English/Film 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

CURRICULUM CREDITS
See page 78 for University and College requirements.

MAJOR REQUIREMENTS
Six credits of American History; three credits of British History; three credits of European History; three credits of Philosophy; and three credits of Art History, Theatre, or Music are required. Students are encouraged to take these courses within their Arts and Science Breadth Requirements.

ENGL 202 Biblical and Classical Literature 3
ENGL 205 British Literature I 3
ENGL 206 British Literature II 3
ENGL 300 Texts and Contexts 3
ENGL 302 Advanced Composition 3
ENGL 324 Shakespeare 3
ENGL 340 American literature to the Civil War 3
ENGL 341 American literature: Civil War to World War II 3
ENGL 390 English linguistics 3
British literature before 1900 (300-level or above) 3
20th-century British, American or Comparative literature (300-level or above) 3
All English Education majors must take at least one ENGL 480 seminar.

COMM 251, 255, 312, or 350 or THEA 102 or 226 3
LING 101 Introduction to Linguistics 3
EDUC 413 Educational Psychology - Social Aspects 3
EDUC 414 Educational Psychology - Cognitive Aspects 3
EDUC 419 Diversity in the Classroom 3
ENGL 183 Grammar for English Teachers 2
ENGL 481 Seminar in Teaching English 3
ENGL 482 Seminar in Teaching English I 3
ENGL 483 Seminar in Teaching English II 3
EDUC 400 Student Teaching 9
EDUC 420 Reading in the Content Areas 1
EDUC 430 Classroom Management 1
Grade of C or better required in all required EDUC and ENGL courses.
To be eligible to student teach, English Education students must have a g p a of 3.0 in their English major and an overall g p a of 2.75. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see list on p. 152) 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.

CREDITS TO TOTAL A MINIMUM OF 124

HONORS BACHELOR OF ARTS: ENGLISH
DEGREE WITH DISTINCTION IN ENGLISH OR ENGLISH EDUCATION

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 Honors thesis.

REQUIREMENTS FOR A MINOR 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, 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 373. A student may also minor in Medieval Studies.

ENVIRONMENTAL SCIENCE

See Geography.

ENVIRONMENTAL STUDIES

See Chemistry and Biochemistry.

EUROPEAN STUDIES

See Continental European Studies.

FOREIGN LANGUAGES AND LITERATURES

Modern. The Department of Foreign Languages and Literatures administers major programs leading to the B.A. in French Studies, German Studies, Italian Studies, Russian Studies, Spanish Studies, and Three Languages. In addition, the department co-sponsors joint majors in History/Foreign Language and in Political Science/Foreign Language. Honors Degree major programs are also available in Foreign Languages, Foreign Language Education, History/Foreign Languages, and Foreign Language/Political Science. Minors are offered in French, German, Italian, Japanese, Russian, and Spanish and in French Studies, German Studies, and Spanish Studies. Foreign Language Certificate and Honors Foreign Language Certificate programs are offered for students in majors other than foreign languages.

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 Department of Foreign Languages and Literatures administers major programs in Classical Studies, Classics, Latin Studies, and a minor in Classics. Honors Degree programs are also available. The program offers a liberal education in the fullest sense of that 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.

Telephone: (302) 831-2591
http://www.fllt.udel.edu/

FOREIGN LANGUAGE TEACHER EDUCATION PROGRAMS

The Department of Foreign Languages and Literatures administers the B.A. program in Foreign Language Education leading to certification for teaching French, German, Italian, Latin (including a concentration in Classics), Russian, and Spanish in grades K-12 or in secondary schools only. 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.

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.

STUDY ABROAD

In addition to several University-sponsored semester programs abroad in such locations as London, Paris, Granada (Spain), and Edinburgh (Scotland), some programs abroad are specifically designed for students of foreign languages.

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

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-languages major, 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.
MAJOR REQUIREMENTS
See page 78 for University and College requirements.
CURRICULUM
MAJOR: CLASSICAL STUDIES
GREK 101 Elementary Ancient Greek I 3
GREK 102 Elementary Ancient Greek II 3
Three additional credits in Latin or Greek at the 200-level or above 3
Twenty-one credits chosen with prior approval of the advisor and according to option requirements, from the following areas: Anthropology (3 credits), Art History (3 credits), Comparative Literature, Linguistics, or other departments, selected in consultation with the advisor.
### DEGREE: BACHELOR OF ARTS
#### MAJOR: FRENCH EDUCATION

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td><strong>MAJOR REQUIREMENTS</strong></td>
<td></td>
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<tr>
<td>FREN 211 - French Reading &amp; Composition</td>
<td>3</td>
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<td>FREN 301 - French Literature: Prose</td>
<td>3</td>
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<tr>
<td>FREN 302 - French Literature: Poetry &amp; Theatre</td>
<td>3</td>
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<td>FREN 314 - French Phonetics</td>
<td>3</td>
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<tr>
<td>One of the following courses:</td>
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<tr>
<td>FREN 313 - Intensive French Composition</td>
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<td>FREN 306 - Practical Oral/Written Expression</td>
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<tr>
<td>FREN 305 - Advanced French Conversation</td>
<td>6</td>
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<tr>
<td>FREN 308 - Contemporary France II</td>
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<td>FREN 325 - French Civilization I</td>
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<td>FREN 326 - French Civilization II</td>
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<tr>
<td>FREN 453 - French Civilization III</td>
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<td>One of the following courses:</td>
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<tr>
<td>FREN 401 - Advanced French Grammar</td>
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<td>FREN 402 - Advanced French Composition</td>
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<tr>
<td>FREN 406 - Advanced French Language</td>
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<tr>
<td>LING 440 - Structure of French</td>
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<tr>
<td>Six credits in French Literature at the 400-level</td>
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<tr>
<td>EDUC 413 - Educational Psychology - Social Aspects</td>
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<td>EDUC 414 - Educational Psychology - Cognitive Aspects</td>
<td>3</td>
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<tr>
<td>EDUC 419 - Diversity in the Classroom</td>
<td>3</td>
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<tr>
<td>EDUC 400 - Student Teaching</td>
<td>9</td>
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<tr>
<td>EDUC 430 - Classroom Management</td>
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<tr>
<td>FLLT/LING 421 - Methods of Teaching Foreign Languages</td>
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<tr>
<td>FLLT/LING 422 - Language Syllabus Design</td>
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<tr>
<td>LING/FLTT 424 - Second Language Testing</td>
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</tbody>
</table>

*Grade of C- or better required in all required EDUC, FLLT, and LING courses.*

For Foreign Language in Elementary School (K-12 certification) option, required courses in addition to above:

- FLTT/EDUC 429 - Methods of Teaching Foreign/Second Languages in Elementary Schools | 3 |
- EDUC/LING 476 - Second Language Acquisition and Bilingualism | 3 |
- EDUC 202 - Human Development I: Grades K-4 | |

To be eligible to student teach, Foreign Language Education students must have a g.p.a. of 3.0 in their French Education major and an overall g.p.a. of 2.75. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult their teacher education program coordinator (see list on page 182) 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.

**CREDITS TO TOTAL A MINIMUM OF** 124

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

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
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<tr>
<td><strong>MAJOR REQUIREMENTS</strong></td>
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<tr>
<td>GRMN 200 - German Grammar Review</td>
<td>3</td>
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<tr>
<td>or GRMN 205 - German Conversation</td>
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<tr>
<td>GRMN 211 - German Reading and Composition: Short Fiction</td>
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<td>GRMN 212 - German Reading and Composition: Drama</td>
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<td>GRMN 305 - German Conversation and Composition</td>
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<tr>
<td>or GRMN 306 - Practical Oral/Written Expression</td>
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<tr>
<td>GRMN 311/312 - Introduction to German Literature I and II</td>
<td>6</td>
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<tr>
<td>GRMN 308 - Contemporary Germany I</td>
<td>3</td>
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<tr>
<td>or GRMN 325 - German Civilization and Culture</td>
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<tr>
<td>GRMN 340 - Focus on Genre: German Drama, Prose or Poetry</td>
<td>3</td>
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<tr>
<td>or GRMN 355 - Special Topics</td>
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<td>One of the following courses:</td>
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<tr>
<td>GRMN 403 - History of the German Language</td>
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<td>GRMN 406 - Advanced German Language</td>
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<tr>
<td>LING 460 - The Structure of German</td>
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<tr>
<td>Six credits in GRMN literature at the 400-level</td>
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<tr>
<td>EDUC 413 - Educational Psychology - Social Aspects</td>
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<td>EDUC 414 - Educational Psychology - Cognitive Aspects</td>
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<tr>
<td>EDUC 419 - Diversity in the Classroom</td>
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<tr>
<td>FLTT/LING 421 - Methods of Teaching Foreign Languages</td>
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<tr>
<td>FLTT/LING 422 - Language Syllabus Design</td>
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<tr>
<td>LING/FLTT 424 - Second Language Testing</td>
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<tr>
<td>EDUC 400 - Student Teaching</td>
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<tr>
<td>EDUC 430 - Classroom Management</td>
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</tbody>
</table>

*Grade of C- or better required in all required EDUC, FLTT, and LING courses.*

For Foreign Language in Elementary School (K-12 certification) option, required courses in addition to above:

- FLTT/EDUC 429 - Methods of Teaching Foreign/Second Languages in Elementary Schools | 3 |
- EDUC/LING 476 - Second Language Acquisition and Bilingualism | 3 |
- EDUC 202 - Human Development I: Grades K-4 | 3 |

To be eligible to student teach, Foreign Language Education students must have a g.p.a. of 3.0 in their German Education major and an overall g.p.a. of 2.75. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult their teacher education program coordinator (see list on page 182) 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.

**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 78 for University and College requirements.

MAJOR REQUIREMENTS

Twelve credits in ITAL electives at the 200-level and above

(at least six credits must be at the 300-level)

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: 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

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: ITALIAN EDUCATION

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

ITAL 200 Italian Grammar Review

ITAL 250 Introduction to Business Italian

ITAL 205 Italian Conversation

ITAL 206 Culture through Conversation

ITAL 211 Italian Reading and Composition: Short Fiction

ITAL 212 Italian Reading and Composition: Drama and Prose

ITAL 305 Advanced Italian Conversation and Composition

ITAL 306 Practical Oral/Written Expression

ITAL 3xx Literature

ITAL 3xx Civilization

ITAL 4xx Language

EDUC 413 Educational Psychology - Social Aspects

EDUC 414 Educational Psychology - Cognitive Aspects

EDUC 419 Diversity in the Classroom

EDUC 420 Human Development I: Grades K-4

EDUC 430 Classroom Management

FLIT/UNG 421 Methods of Teaching Foreign Languages

FLIT/UNG 422 Language Syllabus Design

LING/FLIT 424 Second Language Testing

LATN 4xx History of Latin literature

LATN 2xx, 6

LATN 3xx and/or LATN 4xx

LATN 421 Latin Prose Composition

LATN 431 History of Latin Literature

LATN 4xx

EDUC 430 Classroom Management

FLIT/UNG 421 Methods of Teaching Foreign Languages

FLIT/UNG 422 Language Syllabus Design

LING/FLIT 424 Second Language Testing

Grade of C- or better required in all required EDUC, FLIT, and LING courses.

For Foreign Language in Elementary School (K-12 certification) option, required courses in addition to above:

FLIT/UNG 429 Methods of Teaching Foreign/Second Languages in Elementary Schools

EDUC/UNG 476 Second Language Acquisition and Bilingualism

EDUC 202 Human Development I: Grades K-4

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. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see list on p. 182) 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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: INTERNATIONAL STUDIES

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

Twelve credits in ITAL electives at the 200-level and above

(at least six credits must be at the 300-level)

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: 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

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: RUSSIAN STUDIES
CURRICULUM
CREDITS

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

RUSS 111 Russian Reading and Composition 3
RUSS 305 Russian Conversation and Composition 3
RUSS 401 Advanced Russian Grammar and Composition 3
Six credits in RUSS literature at the 400-level 6
One of the following courses: 3
RUSS 200 Russian Grammar Review
RUSS 205 Russian Conversation
Two of the following courses: 6
RUSS 310 Introduction to Russian Literature I
RUSS 312 Introduction to Russian Literature II
RUSS 325 Russian Civilization and Culture
FLIT 327 Topics: Russian Literature in Translation 3
FLIT 375 Topics: Russian and Soviet Culture in Translation 3
EDUC 413 Educational Psychology – Social Aspects 3
EDUC 414 Educational Psychology – Cognitive Aspects 3
EDUC 419 Diversity in the Classroom 3
EDUC 420 Student Teaching 9
EDUC 430 Classroom Management 1
FLIT/EDUC 429 Methods of Teaching Foreign Languages 3
FLIT/EDUC 430 Methods of Teaching Foreign/Second Languages in Elementary Schools 3
EDUC/LING 476 Second Language Acquisition and Bilingualism 3
EDUC 202 Human Development I: Grades K-4 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: FOREIGN LANGUAGES AND LITERATURES
CONCENTRATION: SPANISH STUDIES
CURRICULUM
CREDITS

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

Twelve credits in SPAN electives at the 200-level and above 12-15
Twelve credits in SPAN literature at the 300 or 400-level 12 (at least six credits must be at the 400-level)
One of the following courses: 3
FLIT 310 Introduction to Spanish Literature I
FLIT 312 Introduction to Spanish Literature II
FLIT 325 Spanish Civilization and Culture
FLIT 375 Spanish and Iberian Culture in Translation
EDUC/LING 421 Methods of Teaching Foreign Languages 3
EDUC/LING 422 Language Syllabus Design 3
LING/FLIT 424 Second Language Testing 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: FOREIGN LANGUAGES AND LITERATURES
CONCENTRATION: CLASSICS
CURRICULUM
CREDITS

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

GREEK 101/102 Elementary Ancient Greek 6
One additional GREEK course at the 200-, 300-, or 400-level 3
LATIN 214 Vergil (prerequisite: LATIN 213 or permission of instructor) 3
Two additional LATIN courses at the 200- or 300-level (excluding LATIN 213) 6
Three additional LATIN courses at the 300- or 400-level 9
One of the following: 3
FLIT 202 Biblical and Classical Literature
FLIT 316 Classical Mythology
FLIT 322 Topics: Classical Literature in Translation
EDUC 413 Educational Psychology – Social Aspects 3
EDUC 414 Educational Psychology – Cognitive Aspects 3
EDUC 419 Diversity in the Classroom 3
EDUC 420 Student Teaching 9
EDUC 430 Classroom Management 1
FLIT/LING 421 Methods of Teaching Foreign Languages 3
FLIT/LING 422 Language Syllabus Design 3
LING/FLIT 424 Second Language Testing 3

Grade of C- or better required in all required EDUC, FLIT, and LING 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 124
DEGREE: BACHELOR OF ARTS
MAJOR: SPANISH EDUCATION

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

SPAN 201 Spanish Reading and Composition ........................................... 3
(SPAN 200 is a prerequisite)
SPAN 305 Oral Communication .................................................................. 3
or
SPAN 306 Practical Oral/Written Expression .............................................. 3
SPAN 314 Spanish Phonetics and Phonology .............................................. 3
One of the following courses: ................................................................. 3
SPAN 308 Contemporary Spanish
SPAN 325 Spanish Civilization and Culture ............................................. 3
SPAN 326 Latin American Civilization and Culture ................................... 3

Any three of the following four literature survey courses: .......................... 9
SPAN 301 Survey of Spanish Literature
SPAN 302 Survey of Spanish Literature
SPAN 303 Survey of Spanish-American Literature3
SPAN 304 Survey of Spanish-American Literature

One of the following courses: ................................................................. 3
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 ........................................... 6
EDUC 413 Educational Psychology - Social Aspects ................................... 3
EDUC 414 Educational Psychology - Cognitive Aspects .......................... 3
EDUC 419 Diversity in the Classroom ....................................................... 3
EDUC 400 Student Teaching ....................................................................... 9
EDUC 450 Classroom Management .......................................................... 1
FLIT/LING 421 Methods of Teaching Foreign Languages ...................... 3
FLIT/LING 422 Language Syllabus Design ................................................ 3
LING/FLIT 424 Second Language Testing .................................................. 3

Grade of C- or better required in all required EDUC, FLIT, and LING courses.

For Foreign Language in Elementary School (K-12 certification) option, required courses in addition to above:

FLIT/EDUC 429 Methods of Teaching Foreign/Second Languages in Elementary Schools .................................................. 3
EDUC/LING 476 Second Language Acquisition and Bilingualism .......... 3
EDUC 202 Human Development I: Grades K-4 ......................................... 3

To be eligible to student teach, Foreign Language Education education students must have an overall g.p.a. of 3.0 in their Spanish Education major and an overall g.p.a. of 2.75. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see list on p. 182) 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.

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

DEGREE: BACHELOR OF ARTS
MAJOR: FOREIGN LANGUAGES AND LITERATURES

CONCENTRATION: THREE LANGUAGES

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

First Language

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

Three additional credits at the 400-level .................................................. 3

Second Language

Six second-language elective credits at the 200-level and above ............... 6
Nine credits in literature at the 300 and 400-level .................................. 9
(at least three credits at each level)

Three additional credits at the 400-level .................................................. 3

Third Language

Nine to twelve credits of third-language courses (at least three credits at or above the 200-level for Western Language) ........................ 9-12

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: HISTORY/CLASSICS, FRENCH, GERMAN, RUSSIAN, OR SPANISH

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

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)

One of the following language options:

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 GREK 213 and
GREK 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) or FREN 453 (French Civilization III) ............... 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

Russian

Civilization: RUSS 325 (Russian Civilization) ....................................... 3

Literature: RUSS 310 (Introduction to Russian Literature I) and
RUSS 312 (Introduction to Russian 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

One of
SPAN 303 (Survey of Spanish-American Literature) and
SPAN 304 (Survey of Spanish-American Literature) .......................... 6

400-level literature course ................................................................. 3

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.

Honors Degree: An Honors Degree option is also available; see page 94

CREDITS TO TOTAL A MINIMUM OF .................................................. 124
FOREIGN LANGUAGES AND LITERATURES • ARTS AND SCIENCE

DEGREE: BACHELOR OF ARTS
MAJOR: FRENCH, GERMAN, OR SPANISH/ POLITICAL SCIENCE

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.

POSC 150 The American Political System ............................................. 3
( or other required intro courses)
POSC 240 Introduction to International Relations .................................. 3
POSC 270 Comparative Politics .............................................................. 3
POSC 310 European Governments ......................................................... 3
POSC 441 Problems of Western European Politics by Country ................. 3
or
POSC 442 Problems of Western European Politics

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

One of the following language options:

French
FREN 2xx, 3xx, 4xx [prior to semester abroad] ....................................... 6
FREN 3xx, 4xx .................................................................................. 12
FREN 4xx (literature) (Newark campus only) ........................................ 3

German
GRMN 2xx, 3xx, 4xx [prior to semester abroad] ....................................... 6
GRMN 3xx, 4xx .................................................................................. 12
GRMN 4xx (literature) (Newark campus only) ........................................ 3

Spanish
SPAN 2xx, 3xx, 4xx [prior to semester abroad] ....................................... 6
SPAN 3xx, 4xx .................................................................................. 12
SPAN 4xx (literature) (Newark campus only) ........................................ 3

In addition to completing one of the language options above, 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].

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
HIST 339

German
GRMN 306 or GRMN 406
GRMN 308
GRMN 355 or GRMN 455
HIST 339

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.

Honors Degree: An Honors Degree option is available for the B.A. in French, German, or Spanish/Political Science (see page 94).

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

MINORS
Foreign Language Minors: An advisor on minors for each language will help students tailor the chosen minor program to their needs. A minor in a foreign language requires a minimum of 18-21 credits at the 200 level or above, as follows:

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.

FRENCH: 18 credits above the 100-level including FREN 211, 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 GRMN 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; including 15 credits in JAPN courses at the 200-level or above, with at least 6 of those credits at the 300-level or above, plus 3 credits in a Japan-related FLLT course.

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).

Foreign Language Studies Minor: 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
FREN 2xx, 3xx, 4xx ................................................................. 6
FREN 306 or 406 ................................................................. 3
FREN 308 ................................................................. 3
Three of: ARTH 339, FREN 355, FREN 455, HIST 339, POSC 441 .... 9

GERMAN STUDIES MINOR
GRMN 2xx, 3xx, 4xx ................................................................. 6
GRMN 306 or 406 ................................................................. 3
GRMN 308 ................................................................. 3
Three of: ARTH 339, GRMN 355, GRMN 455, HIST 339, POSC 441 .... 9

SPANISH STUDIES MINOR
SPAN 2xx, 3xx, 4xx ................................................................. 6
SPAN 306 or 406 ................................................................. 3
SPAN 308 ................................................................. 3
Three of: ARTH 339, SPAN 355, SPAN 455, HIST 339, POSC 441 .... 9

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.

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.

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.
FOREIGN LANGUAGE AND HONORS FOREIGN LANGUAGE CERTIFICATES

The Foreign Language Certificate Program and the Honors Foreign Language Certificate Program are intended to enhance the international dimension of the baccalaureate program for students in majors other than foreign languages by providing them with some first-hand knowledge of a foreign language and a foreign culture.

Students pursuing a major in the Department of Foreign Languages and Literatures or a minor in the language of the certificate are not eligible for these certificates.

To earn a Bachelor's degree with a Foreign Language Certificate in French, German, Italian, Japanese, 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 Study Abroad Sessions in France, Martinique, Germany, Italy, Japan, Spain, or Latin America, and two courses taken on the Delaware campus. A qualified student must complete the designated sequence of four 200- or 300-level French, German, Italian, Japanese, or Spanish courses with no grade below a C.

To earn a Bachelor's degree with an Honors Foreign Language Certificate in French, German, Italian, Japanese, or Spanish, a qualified student must:

1. Complete the designated sequence of four 200- or 300-level French, German, Italian, Japanese, or Spanish courses with no grade below a B-.
2. Take all four of these courses for Honors credit.
3. Achieve a 3.00 cumulative grade index by the time of completion of the course requirements.

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.

French Certificate Course (France or Martinique)

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Abroad Session in Caen, France or Fort de France, Martinique</td>
<td>3</td>
</tr>
<tr>
<td>and one of the following: FREN 206 Culture through Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FREN 207 Contemporary Caribbean World</td>
<td>3</td>
</tr>
<tr>
<td>FREN 208 Contemporary France I (France)</td>
<td>3</td>
</tr>
<tr>
<td>Delaware Campus: FREN 211 (or higher) French Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>FREN 3xx</td>
<td>3</td>
</tr>
</tbody>
</table>

German Certificate Courses

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Abroad Session in Bayreuth, Germany: GRMN 206 Culture through Conversation</td>
<td>3</td>
</tr>
<tr>
<td>GRMN 208 Contemporary Germany</td>
<td>3</td>
</tr>
<tr>
<td>Delaware Campus: GRMN 211 (or higher) German Reading and Composition: Short Fiction</td>
<td>3</td>
</tr>
<tr>
<td>GRMN 3xx</td>
<td>3</td>
</tr>
</tbody>
</table>

Italian Certificate Courses

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Session in Siena, Italy: ITAL 206 Culture through Conversation</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 208 Contemporary Italy</td>
<td>3</td>
</tr>
<tr>
<td>Delaware Campus: ITAL 211 (or higher) Italian Reading and Composition: Short Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 3xx</td>
<td>3</td>
</tr>
</tbody>
</table>

Alternate Plan for Italian Certificate

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Semester in Siena: ITAL courses at the 200-, 300-, or 400-level plus one of the following, also taught abroad: ARTH 339 Art and Architecture of Europe</td>
<td>9</td>
</tr>
<tr>
<td>HIST 339 Topics in Modern European History</td>
<td>3</td>
</tr>
<tr>
<td>POSC 441 Problems of Western European Politics by Country</td>
<td>3</td>
</tr>
</tbody>
</table>

Japanese Certificate Courses

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Abroad Session in Kobe, Japan: JAPN 206 Culture through Conversation</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 208 Contemporary Japan I</td>
<td>3</td>
</tr>
<tr>
<td>Delaware Campus: JAPN 200 (or higher) Japanese Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 3xx</td>
<td>3</td>
</tr>
</tbody>
</table>

Spanish Certificate Courses (Spain or Latin America)

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Abroad Session in Spain or Latin America: SPAN 206 Culture through Conversation</td>
<td>3</td>
</tr>
<tr>
<td>and one of the following: SPAN 207 Contemporary Latin America I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 208 Contemporary Spain I</td>
<td>3</td>
</tr>
<tr>
<td>Delaware Campus: SPAN 201 (or higher, excluding 205) Spanish Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3xx</td>
<td>3</td>
</tr>
</tbody>
</table>

GEOGRAPHY

The Department of Geography offers B.A. programs in Geography and Geography Education, as well as a minor in geography. The Department also co-sponsors the B.S. degree program in Environmental Science, and participates in other interdepartmental opportunities.

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, and research may be undertaken through its Center for Climatic Research. Other areas include environmental studies, biogeography, geology, cultural-historical geography, urban geography, and geomorphology. Computer skills, such as geographic information systems, 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.

Geography, Conservation, and Geology Education, as well as a minor in geography. The Department also co-sponsors the B.S. degree program in Environmental Science, and participates in other interdepartmental opportunities. 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, and research may be undertaken through its Center for Climatic Research. Other areas include environmental studies, biogeography, geology, cultural-historical geography, urban geography, and geomorphology. Computer skills, such as geographic information systems, 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.

Telephone: (302) 831-2294
http://www.udel.edu/Geography/geog.html

BACHELOR OF SCIENCE IN 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 designed to prepare students for careers in environmental research and policy analysis. The department also co-sponsors the Environmental Science and Policy Program, which offers a minor in environmental science and policy.

INTERDEPARTMENTAL AND DOUBLE MAJORS

An interdepartmental major, for students having interests in two areas, requires 21 credits each in geography and in one other department in the college plus 9 more elective credits, approved by both departments. Of the minimum of 21 credits in geography, a student must take 9 credits from the foundation level, of which one course must be from the Natural Geography area, one course from the Human Geography area, and one course from the Methods area. Nine more geography credits must be taken at the 300/400-level. The remaining three geography credits may be chosen from any 200-, 300-, or 400-level course.
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.

DEGREE: BACHELOR OF ARTS
MAJOR: GEOGRAPHY

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

Two of the following natural geography courses: ........................................... 6-7
GEOG 101 Physical Geography: Climatic Processes
GEOG 106 Physical Geography: Land Surface Processes
GEOG 152 Climate and Life
GEOG 220 Meteorology
GEOG 230 Humans and the Earth Ecosystem
GEOG 235 Conservation of Natural Resources
GEOG 255 Applied Climatology

Two of the following human geography courses: ........................................... 6
GEOG 102 Human Geography
GEOG 120 World Regional Geography
GEOG 210 Economic Geography
GEOG 225 Historical Geography of the United States
GEOG 236 Conservation: Global Issues

One of the following methods courses: ......................................................... 3-4
GEOG 250 Computer Methods in Geography
GEOG 270 Map Communication and Design
GEOG 272 Map and Air Photo Interpretation

Nine credits selected from geography courses: ............................................ 9
at the 300 or 400-level [GEOG 445 strongly recommended]
Six elective credits selected from geography courses: .................................. 6
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 78 for University and College requirements.

MAJOR REQUIREMENTS

Two of the following natural geography courses: ........................................... 6-7
GEOG 101 Physical Geography: Climatic Processes
GEOG 106 Physical Geography: Land Surface Processes
GEOG 152 Climate and Life
GEOG 220 Meteorology
GEOG 230 Humans and the Earth Ecosystem
GEOG 235 Conservation of Natural Resources
GEOG 255 Applied Climatology

Two of the following human geography courses: ........................................... 6
GEOG 102 Human Geography
GEOG 120 World Regional Geography
GEOG 210 Economic Geography
GEOG 225 Historical Geography of the United States
GEOG 236 Conservation: Global Issues

One of the following methods courses: ......................................................... 3-4
GEOG 250 Computer Methods in Geography
GEOG 270 Map Communication and Design
GEOG 272 Map and Air Photo Interpretation

Nine credits selected from geography courses: ............................................ 9
at the 300 or 400-level [GEOG 445 strongly recommended]
Six credits selected from geography courses: ............................................. 6
at the 200, 300, or 400-level

POS 150 The American Political System ..................................................... 3
HIST 104 World History 1648 to Present ................................................. 3
HIST 205 United States History since 1865 ............................................... 3

Additional credits as follows: ................................................................... 12
3 credits in ECON, 6 credits in POSC, 3 credits in HIST

EDUC 413 Educational Psychology - Social Aspects .................................... 3
EDUC 414 Educational Psychology - Cognitive Aspects............................... 3
EDUC 419 Diversity in the Classroom ......................................................... 3
HIST 491 Planning A Course of Instruction ............................................... 3
HIST 493 Seminar: Problems in Teaching History and Social Sciences ...... 3
EDUC 420 Reading in the Content Areas .................................................... 1
EDUC 421 Seminar: Methods of Teaching History and Social Sciences .. 9
EDUC 430 Classroom Management ............................................................. 1

Grade of C- or better required in all required EDUC and HIST courses.

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. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see list on p. 182) to obtain the student teaching application and other information concerning student teaching policies.

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

HONORS BACHELOR OF ARTS:
GEOGRAPHY OR GEOGRAPHY EDUCATION

The recipient must complete:
1. All requirements for the Bachelor of Arts degree in Geography or Geography Education.
2. All of the University's generic requirements for the Honors Degree (see page 43 of this catalog).
3. Of the twelve Honors credits in Geography, at least six must be beyond those used to satisfy the minimum Geography or Geography Education major requirements. These six must be chosen from 400/600 level courses and one of these courses must be GEOG 445/645, if it was not already used to satisfy the major requirement.

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.

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 .......................... 3
multicultural, ethnic, and/or gender-related content (see p. 57).

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 60 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Foreign Language: .................................................................................. 0-12
Completion of the intermediate-level course (107 or 112 or 214) in a given language. Number of credits needed and initial placement will depend on number of years of high school study of foreign 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 82)

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**

- **GEOG 107** General Geology
- **BISC 207/208** Introductory Biology I and II
- **GEOG 220** Meteorology
- **GEOG 250** Computer Methods in Geography
- **BISC 302** General Ecology
- **BISC 312** General Ecology Lab
- **GEOG 412** Physical Climatology
- **GEOG 303** Earth Surface I: Surficial Processes
- **BISC/GEOG/GEOL 450** Proseminar in Environmental Science

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

- **Atmospheric Environment**
  - GEOG 343 Climatic Geomorphology
  - GEOG 420 Atmospheric Physics
  - GEOG 423 Atmospheric Dynamics
  - GEOG 451 Micrometeorology
  - GEOG 453 Synoptic Climatology
  - GEOG 456 Hydroclimatology

- **Biological Environment**
  - BISC 306 General Physiology
  - BISC 371 Introduction to Microbiology
  - BISC 495 Evolution
  - BISC 637 Population Ecology
  - BISC 641 Microbial Ecology

- **Geology**
  - GEO 300 Earth's Materials I: Minerals
  - GEO 304 Earth's Surface II: Stratigraphy
  - GEO 305 Earth's Lithosphere I: Structural
  - GEO 307 Earth's History I: Paleobiology

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 geology courses.

- **Atmospheric Environment**
  - GEOG 431 Climatic Geomorphology
  - GEOG 420 Atmospheric Physics
  - GEOG 423 Atmospheric Dynamics
  - GEOG 451 Micrometeorology
  - GEOG 453 Synoptic Climatology
  - GEOG 456 Hydroclimatology

- **Biological Environment**
  - BISC 306 General Physiology
  - BISC 371 Introduction to Microbiology
  - BISC 495 Evolution
  - BISC 637 Population Ecology
  - BISC 641 Microbial Ecology

- **Geology**
  - GEO 300 Earth's Materials I: Minerals
  - GEO 304 Earth's Surface II: Stratigraphy
  - GEO 305 Earth's Lithosphere I: Structural
  - GEO 307 Earth's History I: Paleobiology

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 geology courses.

- **Atmospheric Environment**
  - GEOG 431 Climatic Geomorphology
  - GEOG 420 Atmospheric Physics
  - GEOG 423 Atmospheric Dynamics
  - GEOG 451 Micrometeorology
  - GEOG 453 Synoptic Climatology
  - GEOG 456 Hydroclimatology

- **Biological Environment**
  - BISC 306 General Physiology
  - BISC 371 Introduction to Microbiology
  - BISC 495 Evolution
  - BISC 637 Population Ecology
  - BISC 641 Microbial Ecology

- **Geology**
  - GEO 300 Earth's Materials I: Minerals
  - GEO 304 Earth's Surface II: Stratigraphy
  - GEO 305 Earth's Lithosphere I: Structural
  - GEO 307 Earth's History I: Paleobiology

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 geology 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** 127

**GEOL**

The Department of Geology offers major programs leading to B.A. and B.S. degrees in Geology and in Earth Science Education. The Department offers major programs leading to B.S. degrees in geology (including concentrations in Geophysics and in Paleobiology), and a minor in geology. Environmental Science majors can earn a minor 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, petrology, micropaleontology, mineralogy, stratigraphy, and structural geology. As an additional resource, the Department maintains close ties with the Delaware Geological Survey, the College of Marine Studies, and the Department of Geography through collaboration in the Environmental Science major.

Student projects and employment opportunities are often available through the Delaware Geological Survey (http://www.udel.edu/dgs). In view of the close relationship between geology and other disciplines, interdisciplinary programs within the field of geology are also possible: for example, geochemistry, geophysics, or paleobiology.

Telephone: (302) 831-2569

http://www.geology.udel.edu

**DEGREE: BACHELOR OF ARTS**

**MAJOR: GEOLGY**

**CURRICULUM**

**See page 78 for University and College requirements.**

**MAJOR REQUIREMENTS**

One of the following:

- **GEOL 107** General Geology
- **GEOL 103/115** Geological Hazards and their Human Impact
- **GEOL 113** Earth Science
- **GEOL 300** Earth's Materials I: Minerals
- **GEOL 302** Earth's Materials II: Rocks
- **GEOL 303** Earth's Surface I: Surficial Processes
- **GEOL 304** Earth's Surface II: Stratigraphy
- **GEOL 305** Earth Lithosphere I: Structural Geology and Plate Tectonics
- **GEOL 306** Earth's Lithosphere II: Field Geology

**REGULAR REQUIREMENTS**

- **GEOL 421** Environmental and Applied Geology
- **GEOL 428** Hydrogeology
- **GEOL 431** Marine Geology
- **GEOL 434** The Geology of Coasts
- **GEOL 446** General Geochemistry
- **GEOL 453** Elementary Geophysics I
- **GEOL 454** Elementary Geophysics II
- **GEOL/GEOG 482** Physical Geography of Cold Environments
- **MAST 482** Introduction to Ocean Sciences
- **PHYS 208** Fundamentals of Physics II
- **PLSC 204** Introduction to Soil Science
- **POSC 350** Politics and the Environment
- **MATH 241/242/243** Analytic Geometry and Calculus
- **CHEM 103/104** General Chemistry
- **PHYS 207** Fundamentals of Physics I
- **STAT 475** Statistics for Environmental Sciences
- **STAT 451** Statistics for Environmental Sciences
- **STAT 475** Statistics for Environmental Sciences
- **STAT 657** Statistics for Environmental Sciences

**ELECTIVES**

[Continued on page 82]
CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF SCIENCE
MAJOR: GEOLOGY

CURRICULUM

CREDITS

UNIVERSITY REQUIREMENTS

ENG 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. 57).

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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Foreign Language: .................................................. 0-12
Completion of the intermediate-level course [107 or 112 or 214] in a given language. Number of credits needed and initial placement will depend on number of years of high school study of foreign 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 82)
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

One of the following: .................................................. 4
GEOL 107 General Geology
GEOL 105/115 Geologic Hazards and their Human Impact and Laboratory
GEOL 113 Earth Science

GEOL 300 Earth's Materials I: Minerals .................................. 4
GEOL 302 Earth's Materials II: Rocks .................................. 4
GEOL 303 Earth's Surface I: Surficial Processes .......................... 4
GEOL 304 Earth's Surface II: Stratigraphy ................................ 4
GEOL 305 Earth Lithosphere I: Structural Geology and Plate Tectonics .... 4
GEOL 306 Earth's Lithosphere II: Field Geology .......................... 4
GEOL 307 Earth's History I: Paleobiology ................................ 4
GEOL 308 Earth's History II: Earth System Science ...................... 4
GEOL 433 Geophysics .................................................. 3
GEOL 454 Geophysics II ................................................ 3
GEOL 405 Introduction to Research ...................................... 3
PHYS 207/208/209 Fundamentals of Physics I, II, and III ............... 11
PHYS 645 Electronics for Scientists ................................... 3
MATH 241/242/243 Analytic Geometry and Calculus A, B and C ........ 12
MATH 302 Ordinary Differential Equations I ............................ 3
One of the following ................................................... 3-4
GEOG 250 Computer Methods in Geography
CISC 106 General Computer Science for Engineers

CREDITS TO TOTAL A MINIMUM OF 125

DEGREE: BACHELOR OF SCIENCE
MAJOR: GEOLOGY
CONCENTRATION: PALEOBIOLOGY

CURRICULUM

CREDITS

UNIVERSITY REQUIREMENTS

ENG 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. 57).

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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

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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

One of the following: .................................................. 4
GEOL 107 General Geology
GEOL 105/115 Geologic Hazards and their Human Impact and Laboratory
GEOL 113 Earth Science

GEOL 300 Earth's Materials I: Minerals .................................. 4
GEOL 302 Earth's Materials II: Rocks .................................. 4
GEOL 303 Earth's Surface I: Surficial Processes .......................... 4
GEOL 304 Earth's Surface II: Stratigraphy ................................ 4
GEOL 305 Earth Lithosphere I: Structural Geology and Plate Tectonics .... 4
GEOL 306 Earth's Lithosphere II: Field Geology .......................... 4
GEOL 307 Earth's History I: Paleobiology ................................ 4
GEOL 308 Earth's History II: Earth System Science ...................... 4
GEOL 433 Geophysics .................................................. 3
GEOL 454 Geophysics II ................................................ 3
GEOL 405 Introduction to Research ...................................... 3
PHYS 207/208/209 Fundamentals of Physics I, II, and III ............... 11
PHYS 645 Electronics for Scientists ................................... 3
MATH 241/242/243 Analytic Geometry and Calculus A, B and C ........ 12
MATH 302 Ordinary Differential Equations I ............................ 3
One of the following ................................................... 3-4
GEOG 250 Computer Methods in Geography
CISC 106 General Computer Science for Engineers

CREDITS TO TOTAL A MINIMUM OF 125
DEPARTMENT OF GEOLOGY

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

<table>
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<td>3</td>
</tr>
<tr>
<td>HIST 493</td>
<td>History course at the 400-level or above</td>
<td>3</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

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY

CONCENTRATION: AMERICAN HISTORY

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<td>3</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

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY

CONCENTRATION: EUROPEAN HISTORY

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
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<td>3</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

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY

CONCENTRATION: ASIAN HISTORY

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>Seminar</td>
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</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
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 78 for University and College requirements.

MAJOR REQUIREMENTS

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 78 for University and College requirements.

MAJOR REQUIREMENTS

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: POLICY HISTORY

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

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: JOURNALISM

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

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 course at or above the 300-level 12
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 EDUCATION

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

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

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 as follows:
3 credits in Economics, 6 credits in Political Science, 6 credits in Geography

EDUC 413 Educational Psychology – Social Aspects 3
EDUC 414 Educational Psychology – Cognitive Aspects 3
EDUC 419 Diversity in the Classroom 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
EDUC 420 Reading in the Content Areas 3
EDUC 430 Classroom Management 3

Grade of C or better required in all required HIST and EDUC courses.

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. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see list on p. 182) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF 124

119
ELECTIVES

Two courses at the 200, 300, or 400-level

400-level literature course.

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

Two courses at the 200, 300, or 400-level

400-level literature course.

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

HONORS BACHELOR OF ARTS:

HISTORY (ALL CONCENTRATIONS); HISTORY EDUCATION;

HISTORY/FOREIGN LANGUAGE

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

1. All requirements for the B.A. with a major in History, History Education, or History/Foreign Language.

2. All the University’s generic requirements for the Honors Degree (see page 43 of this catalog).

For all the History degrees/concentrations, including the joint degree with a Foreign Language, at least six of the Honors credits in the major must be at the 300-level or above.

requires a minor in history by taking 15 credits as follows:

Any two of the following ............................................................... 6

HIST 101 Western Civilization to 1648........................................... 6

HIST 102 Western Civilization: 1648 to the Present......................... 6

HIST 103 World History to 1648.................................................... 6

HIST 104 World History: 1638 to the Present................................... 6

HIST 205 United States History..................................................... 6

HIST 206 United States History..................................................... 6

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) 831-2363.

JEWISH STUDIES

The Jewish Studies Program administers the undergraduate minor in Jewish Studies. The minor examines the impact of Jewish thought and culture in all fields of Western and non-Western civilization. This involves the study of the texts, language, history, and culture of the Jewish people in a variety of environments and in historical and contemporary contexts. As an academic discipline, Jewish Studies concentrates on its own inner continuities, as well as the ways it has affected, and been affected by, its host cultures.

For all the History degrees/concentrations, including the joint degree with a Foreign Language, at least six of the Honors credits in the major must be at the 300-level or above.

JOURNALISM

The undergraduate 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 and History in this catalog.

LATIN AMERICAN STUDIES

The undergraduate 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. An undergraduate minor in Latin American Studies is also available.

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.

Telephone: (302) 831-0794
E-mail: salchon@udel.edu
http://www.udel.edu/AreaStudies/latam.html

DEGREE: BACHELOR OF ARTS
MAJOR: LATIN AMERICAN STUDIES

See page 78 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

| 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 |

One of the following seven courses: 3

| ANTH 323 Prehistory of South America |
| ANTH 327 Peoples of the Caribbean |
| ANTH 337 South American Indians |
| 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 |

One of the following two courses: 3

| POSC 431 Latin American Politics: Countries |
| POSC 450 Problems in Latin American Politics |

One of the following three courses: 3

| SPAN 415 Latin American Literature in its Political Context |
| SPAN 430 Latin American Novel and Cinema |
| SPAN 445 Mexican Literature |

Suggested Course:
ECON 311 Economics of Developing Countries ... 3
(Prerequisites: ECON 151, ECON 152)

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.

LEGAL STUDIES

The minor in Legal Studies provides undergraduate students with the opportunity to explore the law from an interdisciplinary perspective within the framework of the liberal arts curriculum. The law is central to theories and research in philosophy, social sciences, business, and public policy. 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.

The minor 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 requires 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. For information on Pre-Law Advisement, see page 68.

In addition to offering a minor in Legal Studies, the program offers faculty seminars, lectures, and films.

Telephone: (302) 831-1236
http://www.udel.edu/Legal.Studies/

REQUIREMENTS FOR A MINOR IN LEGAL STUDIES

CURRICULUM

| LEST 301 Introduction to Legal Studies [same as CRJU 301] | 3 |
| LEST 300 Introduction to law [same as POSC 380] | 3 |
| LEST 401 Senior Seminar or alternative approved by the Director of Legal Studies | 3 |

CREDITS TO TOTAL A MINIMUM OF 124
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
- ACCT 351 Business Law
- ACCT 352 Law and Social Issues in Business

**Communication**
- COMM 345 Legal Issues of the Mass Media (same as LEST 345)

**Criminal Justice**
- CRJU 202 Problems of Criminal Justice
- CRJU 320 Introduction to Criminal Law
- CRJU 324 American Constitutional History (same as HIST 324)
- CRJU 343 Sociology of Law (same as SOCI 343)
- CRJU 346 Psychology and the Law (same as PSYC 346)
- CRJU 347 The Jury: Guilty or Not Guilty (taken with PSYC 347)
- CRJU 375 Criminal Procedure
- CRJU 425 Criminal Law and Social Policy
- CRJU 428 Corporate Crime (same as SOCI 428)
- CRJU 446 Judging the Jury
- CRJU 450 Prisoners and the Law
- CRJU 457 Criminal Evidence
- CRJU 456 Lawyers and Society (same as SOCI 456)

**Economics**
- ECON 306 Economic Theory of Politics (same as POSC 306)
- ECON 350 Government Regulation of Business
- ECON 408 Economics of Law
- ECON 461 Industrial Organization and Antitrust
- ECON 463 Economics of Regulation

**History**
- HIST 309 U.S. Business and Political Economy
- HIST 324 American Constitutional History (same as CRJU 324)
- HIST 376 English Legal and Constitutional History

**Philosophy**
- PHIL 202 Contemporary Moral Problems
- PHIL 308 Justice and Equality
- PHIL 446 Philosophy of Law

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

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

**Sociology**
- SOCI 330 Population, Law and Society (same as CRJU 330)
- SOCI 343 Sociology of Law (same as CRJU 343)
- SOCI 428 Corporate Crime (same as CRJU 428)
- SOCI 456 Lawyers and Society (same as CRJU 456)

**Women’s Studies**
- WOMS 413 Gender, Sex, and American Law (same as POSC 413)

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**LIBERAL STUDIES**

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 own choice that are consistent with their stated educational goals.

Admission into the 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, involving 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 B.ALS. 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 requires 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.

**HONORS BACHELOR OF ARTS: LIBERAL STUDIES**

The recipient must complete:
1. All requirements for the Bachelor of Arts in Liberal Studies degree
2. All the University’s generic requirements for the Honors Degree (see page 43 of this catalog)
3. The student’s B.A.L.S. advisor will designate Honors Courses that will count as courses in the major.

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**LINGUISTICS**

The Department of Linguistics offers two minors at the undergraduate level: one in Linguistics and one in Cognitive Science. The department also has course templates for individualized Bachelor of Arts in Liberal Studies degrees in Pre-professional Speech Pathology, and in Cognitive and Linguistic Science. The department offers courses in Linguistics and Cognitive Science at the introductory, intermediate, and advanced levels in both applied and theoretical areas. Many of the 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.

Phone: (302) 831-6806
http://www.ling.udel.edu/ling/

**REQUIREMENTS FOR THE MINOR IN LINGUISTICS**

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 101</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LING 407</td>
<td>Phonology I</td>
<td>3</td>
</tr>
<tr>
<td>LING 409</td>
<td>Syntax I</td>
<td>3</td>
</tr>
<tr>
<td>LING 477</td>
<td>Structure of English</td>
<td>3</td>
</tr>
<tr>
<td>LING 491</td>
<td>Semantics I</td>
<td>3</td>
</tr>
<tr>
<td>Any four additional LING courses, two of which must be at the 300-level or above</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

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

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**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) more specialized 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 of the following:  
- CGSC 270 Introduction to Cognitive Science  
- LING 101 Introduction to Linguistics  
- PSYC 201 General Psychology  

B. One of the following:  
- CISC 105 General Computer Science  
- CISC 106 General Computer Science for Engineers  
- CISC 181 Introduction to Computer Science  

C. One of the following:  
- LUNG 409 Syntax I (prerequisite: LING 101)  
- LUNG 409 Semantics I (prerequisite: LING 101)  
- CGSC 480 Computers and the Mind  
- CGSC 340 Cognition (prerequisite: PSYC 309)  

D. One of the following:  
- PSYC 310 Sensation & Perception (prerequisite: PSYC 309)  
- CGSC 314 Brain & Behavior  
- CISC 220 Data Structures (prerequisite: CISC 181)  
- CGSC 681 Artificial Intelligence (prerequisite: CISC 220 & 310)  
- PHIL 205 Logic  
- EDUC 462 Language Acquisition  
- LUNG 610 Syntax II (prerequisite: LUNG 409)  

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

For more information, contact: Professor Barbara Landau  
Cognitive Science Program  
(302) 831-1088  
email: blandau@udel.edu  
website: http://sun.ling.udel.edu/cogsci

PRE-PROFESSIONAL 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 these areas may pursue a Bachelor of Arts in Liberal Studies degree. Templates of courses for each of 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.

CONFERENCE INTERPRETATION PROGRAM

Within the Department of Linguistics, the Conference Interpretation Program occasionally offers an intensive course in simultaneous and consecutive interpretation during the summer session. 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. 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 Professor Nancy Schweda-Nicholson of the Department of Linguistics regarding the language combinations for future seminars.

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 new student 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 241-242 as an alternative to MATH 221-222.

The sequence MATH 251-252-253 is designed for prospective elementary school teachers and is restricted to declared majors in the appropriate programs of the College of Human Services, Education and Public Policy.

Students who need further preparation in algebra and trigonometry prior to a 200-level course should take MATH 115 or MATH 117. MATH 113 and MATH 114 serve 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 will be given only upon approval of the chair: e.g.,

- MATH 114 and MATH 115
- MATH 210 and MATH 230
- MATH 221 and MATH 241
- MATH 222 and MATH 242
- MATH 302, MATH 341, and MATH 351
- MATH 342, MATH 349, and MATH 352

DEGREE: BACHELOR OF ARTS
MAJOR: MATHEMATICAL SCIENCES

CURRICULUM

See page 78 for University and College requirements.

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.

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
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 355, STAT 450, and STAT 555 are not applicable

ENGL 312 Written Communications in Business or suitable equivalent

One of the following options (A, B, or C): .......................... 6-9

Option A
(for students with previous experience with a programming language)
CISC 181 Introduction to Computer Science
and
CISC 220 Data Structures

Option B
(for students with no previous experience with a programming language)
CISC 105 General Computer Science
and
CISC 181 Introduction to Computer Science
and
CISC 220 Data Structures

Option C
(for students with no previous experience with a programming language)
CISC 105 General Computer Science
and
CISC 120 Object Oriented Programming in C++
and
CISC 220 Data Structures

Any substitutions must be approved by the department Undergraduate Studies Committee.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree, with at least 79 credits outside Mathematics.

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

HONORS BACHELOR OF ARTS: MATHEMATICS

The recipient must complete:
1. All requirements for the Bachelor of Arts degree in Mathematics.
2. All of the University’s generic requirements for the Honors Baccalaureate degree (see page 43 of this catalog).

All Mathematics and Statistics courses below the 600-level in which the student takes an Honors component may be counted toward the minimum 12 hours of Honors credits in the major required for the Honors degree. All Mathematics and Statistics courses at the 600-level or higher may be counted toward the same 12 credit Honors course requirement.

DEGREE: BACHELOR OF SCIENCE
MAJOR: MATHEMATICAL SCIENCES

CURRICULUM

See page 78 for University and College requirements.

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.

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 426 Introduction to Numerical Analysis and .................. 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 355, STAT 450, and STAT 555 are not applicable
ENGL 312 Written Communications in Business or suitable equivalent

One of the following options (A, B, or C): .......................... 6-9

Option A
(for students with previous experience with a programming language)
CISC 181 Introduction to Computer Science
and
CISC 220 Data Structures

Option B
(for students with no previous experience with a programming language)
CISC 105 General Computer Science
and
CISC 181 Introduction to Computer Science
and
CISC 220 Data Structures

Option C
(for students with no previous experience with a programming language)
CISC 105 General Computer Science
and
CISC 120 Object Oriented Programming in C++
and
CISC 220 Data Structures

Any substitutions must be approved by the department Undergraduate Studies Committee.

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. 57).

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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Foreign Language:
Completion of the intermediate-level course (107 or 112) in a given language. Number of credits needed and initial placement will depend on number of years of high school study of foreign 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 82)
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 MATH 241.

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 401 Introduction to Real Analysis ............................... 3
MATH 426 Introduction to Numerical Analysis and .................. 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 355, STAT 450, and STAT 555 are not applicable
ENGL 312 Written Communications in Business or suitable equivalent

Two-semester sequence of laboratory science ........................ 8
(Courses designed for non-majors in a discipline are not appropriate.)

One of the following options (A, B, or C): .......................... 6-9

Option A
(for students with previous experience with a programming language)
CISC 181 Introduction to Computer Science
and
CISC 220 Data Structures

Option B
(for students with no previous experience with a programming language)
CISC 105 General Computer Science
and
CISC 181 Introduction to Computer Science
and
CISC 220 Data Structures

Option C
(for students with no previous experience with a programming language)
CISC 105 General Computer Science
and
CISC 120 Object Oriented Programming in C++
and
CISC 220 Data Structures

Any substitutions must be approved by the department Undergraduate Studies Committee.
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

HONORS BACHELOR OF SCIENCE: MATHEMATICS
The recipient must complete:
1. All requirements for the Bachelor of Science degree in Mathematics.
2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 43 of this catalog).

All Mathematics and Statistics courses below the 600-level in which the student takes an Honors component may be counted toward the minimum 12 hours of Honors credits in the major required for the Honors degree. All Mathematics and Statistics courses at the 600-level or higher may be counted toward the same 12 credit Honors course requirement.

DEGREE: BACHELOR OF ARTS
MAJOR: MATHEMATICS EDUCATION

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

HONORS BACHELOR OF ARTS: MATHEMATICS EDUCATION
The recipient must complete:
1. All requirements for the Bachelor of Arts degree in Mathematics Education.
2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 43 of this catalog).

All Mathematics and Statistics courses below the 600-level in which the student takes an Honors component may be counted toward the minimum 12 hours of Honors credits in the major required for the Honors degree. All Mathematics and Statistics courses at the 600-level or higher may be counted toward the same 12 credit Honors course requirement.

REQUIREMENTS FOR A MINOR IN MATHEMATICS
A student seeking a minor in mathematics must obtain permission from the chairperson or his designee in the Department of Mathematical Sciences.

Course requirements consist of a total of 18 credits in MATH courses offered by the Department of Mathematical Sciences, to include 9 credits above MATH 302. In order to count toward the minor, a grade of C- or better is required.

MATH 341 and MATH 351 are not considered above MATH 302 since they are comparable courses from a different track. However, MATH 342 or MATH 352 may be counted as above MATH 302, provided MATH 349 is not included in the count.

One of STAT 300, STAT 370, STAT 450, or STAT 475 may be counted toward the 18 credits in MATH courses required for the mathematics minor, but these courses cannot count toward the 9 credits above MATH 302. Courses which are cross-listed with a Mathematical Sciences MATH course may also be counted toward the minor. Courses in mathematics education (e.g., MATH 379, 380, 381) may not be counted toward the minor.
The College of Arts and Science administers an interdisciplinary major program in Mathematics and Economics leading to the Bachelor of Science degree. The major, with courses taught by faculty in the Departments of Economics and of Mathematical Sciences, provides a strong background in mathematics for students in economics. Students graduating with this degree will be well prepared for graduate studies in economics or in mathematics.

DEGREE: BACHELOR OF SCIENCE

MAJOR: MATHEMATICS AND ECONOMICS

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. 57) .... 3

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 60 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet (See list of courses approved for second writing requirement, page 81)

ENGL 312 Written Communications in Business ......................................................... 3
(to be taken after 60 credits)

Breadth Requirements (See page 82)

A total of eighteen credits from Groups A, B and C is required with six credits from each group. The six credits from each area 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 MATH 241. Students must take a minimum of 39 credits in Mathematics and Economics at the 300-level or above.

ECON 301 Quantitative Microeconomic Theory (prerequisites: ECON 151 and MATH 221) ................................................................. 3
ECON 303 Intermediate Macroeconomic Theory (prerequisites: ECON 302 and ECON 151) ................................................................. 3
ECON 422 Econometric Methods and Models I .......................................................... 3
ECON 423 Econometric Methods and Models II ......................................................... 3
One of the following:........................................................................................................ 3
ECON 406 Markets: Information and Uncertainty
ECON 426 Mathematical Economic Analysis
One of the following:........................................................................................................ 3
ECON 302 Banking and Monetary Policy
ECON 430 Advanced Macroeconomic Theory
ECON 443 International Monetary Economics
ECON 471 Futures and Options Markets
FINC 311 Principles of Finance
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
MATH 530 Optimization and Game Theory ................................................................. 3
One of the following:........................................................................................................ 3
MATH 210 Discrete Mathematics I
MATH 230 Finite Mathematics with Applications
One of the following (minimum grade C) ..................................................................... 2-3
CISC 105 General Computer Science
CISC 106 General Computer Science for Engineers
CISC 120 Object Oriented Programming in C++
CISC 181 Introduction to Computer Science

One of the following two options (A or B)

Option A
MATH 245 An Introduction to Proof .................................................................................. 3
MATH 211 Introduction to Real Analysis ........................................................................ 3

Option B
MATH 503 Advanced Calculus for Applications ......................................................... 3

One of the following two courses .................................................................................... 3
MATH 426 Introduction to Numerical Analysis and Algorithmic Computation
MATH 529 Linear Programming: Methods and Applications

One of the following two options (C or D)

Option C
STAT 300 Statistical Methods and Theory ...................................................................... 4
Option D
STAT 201 Introduction to Statistical Methods I ........................................................... 3
and
STAT 202 Introduction to Statistical Methods 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

MEDICAL HUMANITIES

The undergraduate 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.

Telephone: (302) 831-8195

REQUIREMENTS FOR A MINOR IN MEDICAL HUMANITIES

CSCC/PHIL 246 Philosophical Perspectives of Medicine ........................................... 3
CSCC/ENGL 369 Literature and Medicine ................................................................... 3
CSCC/HIST 382 History of Western Medicine ........................................................... 3
CSCC 365 Independent Study in Medical Humanities ............................................... 1
Two courses from the following: .................................................................................... 6
CSCC/WOMN 233 Women, Biology and Medicine
CSCC/PHIL 241 Ethical & Moral Dimensions of Health Care
CSCC/SOCI 311 Sociology of Health Care
CSCC/ENGL 368 Literature and Science
CSCC/PHIL 444 Medical Ethics

Students wishing to complete a minor in Medical Humanities are encouraged to enroll as soon as possible.

MEDIEVAL STUDIES

The College of Arts and Science offers an undergraduate minor in 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.

ARTH 209 Early Medieval Art (200-1000 AD)
ARTH 210 Later Medieval Art (1000-1400 AD)
ARTH 213 Art of the Northern Renaissance
ARTH 217 Early Renaissance Art
ARTH 220 Italian Renaissance Architecture
ARTH 406/606 Seminar in Medieval Art
ARTH 408/608 Seminar in Northern Renaissance Art
ARTH 413 Seminar in Italian Renaissance Art
CMLT 320 Varying Authors and Genres (on medieval topics)
CMLT 321 Medieval Literature and Culture
ENGL 321 Medieval Literature and Culture
Once the student satisfactorily completes all ROTC requirements in the US Army (Active Duty or Reserve status), lodging, and meals are provided while attending Advanced Camp.

State of Washington. Students are paid and all travel, medical needs, and the ability to "take charge." Many of the graduating cadets elect to go Active Duty to put their ROTC leadership training into practice. The annual salary for a new Second Lieutenant exceeds $30,000.

For those cadets who request and receive Reserve Forces duty, many receive better civilian jobs (increased pay and responsibility) because of the practical leadership training and experience they gained in the ROTC program.

All ROTC graduates serve in some capacity for up to eight years. This may be fulfilled by serving three or four years of active duty service, followed by service in the Army Reserve (USAR), the Army National Guard (ARNG), or in the Individual Ready Reserve (IRR), or by serving eight years in the Reserves or National Guard.

Most UD degree programs accept all 12 military science credits toward graduation. Exceptions are those in the College of Engineering and in the Departments of Medical Technology, Nursing, and Nutrition and Dietetics, each of which accepts 4 credits.

### MUSIC

The curricula for undergraduate students majoring in music lead to the degree Bachelor of Music and Bachelor of Art. 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 or orchestral instruments, 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.

A minor in music is available in applied music, church music, musical studies, jazz studies or music management studies.

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, available online at http://www.udel.edu/music/students/reg/stdhndbk.html.

For the general University undergraduate, the department offers courses in the fundamentals of music, music literature, and class study of voice, organ and piano. All courses in the department are available to any University student who meets course and department
prerequisites. Some 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, the early music ensemble, gamelan, opera workshop, steel band, and various chamber ensembles.

The department is a leader in the development and implementation of instructional technology. It is an accredited institutional member of the National Association of Schools of Music.

Telephone: (302) 831-2577
http://www.udel.edu/music/

DEGREE: BACHELOR OF ARTS
MAJOR: MUSIC

CURRICULUM CREDITS

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

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 Class Piano: Elementary I 1
MUSC 261 Private Study 2
MUSC 262 Private Study 2

Theory

MUSC 185/186 Ear Training and Sight Singing I and II 4
MUSC 195/196 Harmony I and II 6
MUSC 285/286 Advanced Ear Training and Sight Singing I and II 4
MUSC 295/296 Advanced Harmony I and II 6

Ensemble

Four Semesters 4

Students must consult with the Department for appropriate ensemble placement. Students must be enrolled in an appropriate ensemble during all semesters in which they are enrolled in Private Study.

Literature

MUSC 211 Introduction to Music History 3
MUSC 311 Music History: 400-1600 3
MUSC 312 Music History: 1600-1827 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 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. 57).

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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Mathematics: One of the following 0-4
MATH 113 Contemporary Mathematics (designed for students who do not intend to continue the study of mathematics)
MATH 114 College Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)
MATH 211 Calculus I
MATH 212 Analytic Geometry and Calculus A
Successful performance on the college proficiency exam (0 credits awarded)

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 82)

Group A Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.) 6
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.) 15
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. 6

MAJOR REQUIREMENTS

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 311 Music History: 400-1600 3
MUSC 312 Music History: 1600-1827 3
MUSC 313 Music History: 1825 to the Present 3

Theory

MUSC 185/186 Ear Training and Sight Singing I and II 4
MUSC 195/196 Harmony I and II 6
MUSC 285/286 Advanced Ear Training and Sight Singing I and II 4
MUSC 295/296 Advanced Harmony I and II 6

Ensemble

Twelve credits selected from the following: 12
MUSC 113 Marching Band, MUSC 114 Symphonic Band, MUSC 115 Wind Ensemble, MUSC 116 Jazz Ensemble, MUSC 117 University Orchestra, MUSC 118 Percussion Ensemble, and MUSC 321 Ensemble. (All Ensembles may be repeated.)

Guitarists must complete the following:
MUSC 321 Ensemble: Guitar 8
Two semesters of any departmental ensemble 2

Literature

MUSC 211 Introduction to Music History 3
MUSC 311 Music History: 400-1600 3
MUSC 312 Music History: 1600-1827 3
MUSC 313 Music History: 1825 to the Present 3

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

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. 57)

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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet (See list of courses approved for second writing requirement, page 81)

Mathematics: One of the following ......................................................................................... 0-4
MATH 113  Contemporary Mathematics
(Mathematics: One of the following
MATH 114  College Mathematics and Statistics
(Mathematics: One of the following
MATH 115  Pre-Calculus
(Mathematics: One of the following
MATH 221  Calculus I
MATH 241  Analytic Geometry and Calculus A

Successful performance on the college proficiency exam (0 credits awarded)

English literature course (200-level - Group A or B) ................................................................. 3
HIST 101  Western Civilization: 1648 to the Present ................................................................. 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 82)

Group A ...................................................................................................................................... 6
Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196)

Group B ...................................................................................................................................... 15
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 ...................................................................................................................................... 9
Empirically based study of human beings and their environment. Nine credits representing at least two areas

Group D ...................................................................................................................................... 6
The study of natural phenomena through experiment and analysis

MAJOR REQUIREMENTS

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

MUSC 185/186  Ear Training and Sight Singing I and II ............................................................ 4
MUSC 285/286  Advanced Ear Training and Sight Singing I and II ........................................... 4
MUSC 195/196  Harmony I and II ................................................................................................. 6
MUSC 295/296  Advanced Harmony I and II .............................................................................. 6
MUSC 393/394  Keyboard Harmony ........................................................................................... 4
MUSC Theory courses .................................................................................................................. 4-5

Ensemble

Two semesters of any departmental ensemble ............................................................................ 2
MUSC 241  Accompanying Chamber Music: Piano .................................................................... 1
MUSC 242  Accompanying Chamber Music: Piano .................................................................... 1
MUSC 341  Accompanying Chamber Music: Piano .................................................................... 1
MUSC 342  Accompanying Chamber Music: Piano .................................................................... 1
MUSC 441  Accompanying Chamber Music: Piano .................................................................... 1
MUSC 442  Accompanying Chamber Music: Piano .................................................................... 1

Literature

MUSC 211  Introduction to Music History ...................................................................................... 3
MUSC 311  Music History: 400-1600 ........................................................................................... 3
MUSC 312  Music History: 1600-1827 ........................................................................................ 3
MUSC 313  Music History: 1825 to the Present .......................................................................... 3
MUSC 353  Keyboard Literature I ................................................................................................ 3
MUSC 354  Keyboard Literature II ................................................................................................ 3
Music literature course ................................................................................................................ 3

Music Electives

Excludes private study on primary instrument

May include two credits of ensemble

CREDITS TO TOTAL A MINIMUM OF ................................................................. 133

DEGREE: BACHELOR OF MUSIC
MAJOR: APPLIED MUSIC-VOICE

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. 57)

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 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet (See list of courses approved for second writing requirement, page 81)

Mathematics: One of the following ......................................................................................... 0-4
MATH 113  Contemporary Mathematics
(Mathematics: One of the following
MATH 114  College Mathematics and Statistics
(Mathematics: One of the following
MATH 115  Pre-Calculus
(Mathematics: One of the following
MATH 221  Calculus I
MATH 241  Analytic Geometry and Calculus A

Successful performance on the college proficiency exam (0 credits awarded)

HIST 101  Western Civilization: 1648 to the Present ................................................................. 3
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 82)

Group A ...................................................................................................................................... 6
Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196)

Group B ...................................................................................................................................... 12
The study of culture and institutions over time. Twelve credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313 and HIST 102)

Group C ...................................................................................................................................... 6
Empirically based study of human beings and their environment. Six credits representing at least two areas

Group D ...................................................................................................................................... 3
The study of natural phenomena through experiment and analysis

MAJOR REQUIREMENTS

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

Literature

MUSC 311  Music History: 400-1600 ........................................................................................... 3
MUSC 312  Music History: 1600-1827 ........................................................................................ 3
MUSC 313  Music History: 1825 to the Present .......................................................................... 3
MUSC 353  Keyboard Literature I ................................................................................................ 3
Music literature course ................................................................................................................ 3

Music Electives

Excludes private study on primary instrument

May include two credits of ensemble

CREDITS TO TOTAL A MINIMUM OF ................................................................. 133
Theory
MUSC 185/186 Ear Training and Sigh Singing I and II .................. 4
MUSC 285/286 Advanced Ear Training and Sight Singing I and II .... 6
MUSC 195/196 Harmony I and II ........................................ 6
MUSC 295/296 Advanced Harmony I and II ............................... 6
Ensembles: One of the following (any 8 semesters) ..................... 8
MUSC 108 University Singers 
or
MUSC 109 Choral Union  
or
MUSC 110 Choral

Literature
MUSC 211 Introduction to Music History ................................ 3
MUSC 311 Music History: 1600-1827 ..................................... 3
MUSC 313 Music History: 1825 to the Present .......................... 3

Related Music Studies
MUSC 217 Diction: English and Italian ................................ 1
MUSC 271 Diction: German .................................................. 1
MUSC 489 Opera Workshop .................................................. 1

Music Electives
Nine credits from the following: (including four credits
from MUSC 327, 427 and/or 428) ............................................. 9
MUSC 103 Introduction to Opera ............................................. 1
MUSC 104 Introduction to Opera II ......................................... 1
MUSC 327 German Lieder .................................................... 1
MUSC 335 Basic Conducting ................................................ 1
MUSC 395 Form Analysis ..................................................... 1
MUSC 397 Contemporary Harmony ....................................... 1
MUSC 427 French Art Song .................................................. 1
MUSC 428 Twentieth-Century Art Song ................................ 1
MUSC 480 Vocal Pedagogy ................................................... 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 ........................................ 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 Sciences Advisement Center.

CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) ........ 3
Three credits in an approved course or courses stressing .......................... 3
multicultural, ethnic, and/or gender-related content (see p. 57)

COLLEGE REQUIREMENTS

Skill Requirements
Writing: (minimum grade C) .................................................. 3
A second writing course involving significant writing experience includ-
ing two papers with a combined minimum of 3,000 words to be submit-
ted for extended faculty critique of both composition and content. This
course must be taken after completion of 60 credit hours. Appropriate
writing courses are normally designated in the semester’s Registration
Booklet. (See list of courses approved for second writing requirement, page 81.)

Mathematics: One of the following .......................................... 0-4
MATH 113 Contemporary Mathematics (designed for students who do not intend to continue the study of mathematics) 
MATH 114 College Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics) 
MATH 115 Pre-Calculus (designed for students who do not intend to continue the study of mathematics) 
MATH 221 Calculus I 
MATH 241 Analytic Geometry and Calculus A
Successful performance on the college proficiency exam (0 credits awarded)

Breadth Requirements (See page 82)
Art or Art History course, to be selected from Group A or B .......... 3
DEGREE: BACHELOR OF MUSIC
MAJOR: MUSIC EDUCATION—GENERAL/CHORAL
CONCENTRATION: PIANO

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. 57).

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 60 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Mathematics: One of the following \ 0-4
MATH 113 Contemporary Mathematics
(designed for students who do not intend to continue the study of mathematics)
MATH 114 College Mathematics and Statistics
(designed for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus
(designed for students who intend to continue the study of mathematics)
MATH 221 Calculus I
MATH 241 Analytic Geometry and Calculus A

Successful performance on the college proficiency exam (0 credits awarded).

Breadth Requirements (See page 82)

Art or Art History course, to be selected from Group A or B \ 3
Group A \ 9
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 \ 9
The study of culture and institutions over time. (MUSC 311, 312, and 313 count toward completion of this requirement)

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

Group D \ 4
The study of natural phenomena through experiment and analysis. One science course with an associated laboratory.

MAJOR REQUIREMENTS

Applied Music
MUSC 100 Recital Attendance (six semesters required) \ 0
MUSC 161 Private Study (piano) \ 2
MUSC 162 Private Study (piano) \ 2
MUSC 261 Private Study (piano) \ 2
MUSC 262 Private Study (piano) \ 2
MUSC 361 Private Study (piano) \ 2
MUSC 362 Private Study (piano) \ 2
MUSC 461 Private Study (piano) \ 2
MUSC 161 Private Study (voice) \ 1
MUSC 162 Private Study (voice) \ 1
MUSC 261 Private Study (voice) \ 1
MUSC 262 Private Study (voice) \ 1
MUSC 480 Vocal Pedagogy \ 3
MUSC 171 Dictation: English and Italian \ 1
MUSC 271 Dictation: German \ 1
MUSC 272 Dictation: French \ 1
MUSC 301 Junior Recital \ 0

Theory
MUSC 185/186 Ear Training and Sight Singing I and II \ 4
MUSC 285/286 Advanced Ear Training and Sight Singing I and II \ 4
MUSC 195/196 Harmony I and II \ 6
MUSC 295/296 Advanced Harmony I and II \ 6
MUSC 397 Contemporary Harmony \ 3

Ensemble: One of the following (any 7 semesters) \ 7
MUSC 108 University Singers
or
MUSC 109 Choral Union
or
MUSC 110 Choral

Literature
MUSC 211 Introduction to Music History \ 3
MUSC 311 Music History: 400-1600 \ 3
MUSC 312 Music History: 1600-1827 \ 3
MUSC 313 Music History: 1825 to the Present \ 3
MUSC 328 Choral Literature \ 2

Secondary Instruments
MUSC 214 Stringed Instruments Class \ 1
MUSC 215 High Brass Instruments Class \ 1
or
MUSC 217 Woodwind Instruments Class I

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
EDUC 413 Educational Psychology – Social Aspects \ 3
EDUC 414 Educational Psychology – Cognitive Aspects \ 3
EDUC 419 Diversity in the Classroom \ 3
EDUC 400 Student Teaching \ 9
EDUC 430 Classroom Management \ 1

Grade of C- or better required in Professional Studies courses.

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 must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see list on p. 182) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF \ 134

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. 57).

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 60 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Mathematics: One of the following \ 0-4
MATH 113 Contemporary Mathematics
(designed for students who do not intend to continue the study of mathematics)
MATH 114 College Mathematics and Statistics
(designed for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus
(designed for students who intend to continue the study of mathematics)
MATH 221 Calculus I
MATH 241 Analytic Geometry and Calculus A

Successful performance on the college proficiency exam (0 credits awarded).

Breadth Requirements (See page 82)

Art or Art History course, to be selected from Group A or B \ 3
Group A \ 9
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 \ 9
The study of culture and institutions over time. (MUSC 311, 312, and 313 count toward completion of this requirement)

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

Group D \ 4
The study of natural phenomena through experiment and analysis. One science course with an associated laboratory.

MAJOR REQUIREMENTS

Applied Music
MUSC 100 Recital Attendance (six semesters required) \ 0
MUSC 161 Private Study (piano) \ 2
MUSC 162 Private Study (piano) \ 2
MUSC 261 Private Study (piano) \ 2
MUSC 262 Private Study (piano) \ 2
MUSC 361 Private Study (piano) \ 2
MUSC 362 Private Study (piano) \ 2
MUSC 461 Private Study (piano) \ 2
MUSC 161 Private Study (voice) \ 1
MUSC 162 Private Study (voice) \ 1
MUSC 261 Private Study (voice) \ 1
MUSC 262 Private Study (voice) \ 1
MUSC 480 Vocal Pedagogy \ 3
MUSC 171 Dictation: English and Italian \ 1
MUSC 271 Dictation: German \ 1
MUSC 272 Dictation: French \ 1
MUSC 301 Junior Recital \ 0

Theory
MUSC 185/186 Ear Training and Sight Singing I and II \ 4
MUSC 285/286 Advanced Ear Training and Sight Singing I and II \ 4
MUSC 195/196 Harmony I and II \ 6
MUSC 295/296 Advanced Harmony I and II \ 6
MUSC 397 Contemporary Harmony \ 3

Ensemble: One of the following (any 7 semesters) \ 7
MUSC 108 University Singers
or
MUSC 109 Choral Union
or
MUSC 110 Choral

Literature
MUSC 211 Introduction to Music History \ 3
MUSC 311 Music History: 400-1600 \ 3
MUSC 312 Music History: 1600-1827 \ 3
MUSC 313 Music History: 1825 to the Present \ 3
MUSC 328 Choral Literature \ 2

Secondary Instruments
MUSC 214 Stringed Instruments Class \ 1
MUSC 215 High Brass Instruments Class \ 1
or
MUSC 217 Woodwind Instruments Class I

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
EDUC 413 Educational Psychology – Social Aspects \ 3
EDUC 414 Educational Psychology – Cognitive Aspects \ 3
EDUC 419 Diversity in the Classroom \ 3
EDUC 400 Student Teaching \ 9
EDUC 430 Classroom Management \ 1

Grade of C- or better required in Professional Studies courses.

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 must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see list on p. 182) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF \ 134
CREDITS

DEGREE: BACHELOR OF MUSIC
MAJOR: THEORY/COMPOSITION

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. 57].

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 60 credit hours. Appropriate writing
courses are normally designated in the semester’s Registration Booklet.
(See list of courses approved for second writing requirement, page 81.)

Mathematics: One of the following 0-4
MATH 113 Contemporary Mathematics
(designed for students who do not intend to continue the study of mathematics)
MATH 114 College Mathematics and Statistics
(designed for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus
(designed for students who intend to continue the study of mathematics)
MATH 221 Calculus I
MATH 241 Analytic Geometry and Calculus A
Successful performance on the college proficiency exam (0 credits awarded).

Modern Languages and History

Twelve credits in one of the following: French, German 3
Arts
HIST 101 Western Civilization to 1648 3
HIST 102 Western Civilization 1648 to the Present 3

Breadth Requirements [See page 82]
Two 200-level or higher English literature courses selected from 6

Group A or B

Group A 6
Understanding and appreciation of the creative arts and humanities

This requirement is satisfied by MUSC 195 and 196.

Group B 15
The study of culture and institutions over time. Fifteen credits representing
at least two areas. (This requirement is satisfied by MUSC 311, 312,
HIST 101, and 102.)

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

Group D 9
The study of natural phenomena through experiment and analysis. Nine
credits in at least two areas.

MAJOR REQUIREMENTS

Applied Music
MUSC 100 Recital Attendance (six semesters required) 0
MUSC 161 Private Study 2
MUSC 321 Private Study 2
MUSC 252 Private Study 2
MUSC 352 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 356 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 0

Theory
MUSC 185/186 Ear Training and Sight Singing I and II 4
MUSC 285/286 Advanced Ear Training and Sight Singing I and II 4
MUSC 195/196 Harmony I and II 6
MUSC 295/296 Advanced Harmony I and II 6
MUSC 397 Contemporary Harmony 3

Ensemble
One of the following (any 7 semesters) 7
MUSC 108 University Singers
or
MUSC 109 Choral Union
or
MUSC 110 Choral

Literature
MUSC 211 Introduction to Music History 3
MUSC 311 Music History: 400-1600 3
MUSC 312 Music History: 1600-1827 3
MUSC 313 Music History: 1825 to the Present 3
MUSC 328 Choral Literature 2

Secondary Instruments
MUSC 214 Stringed Instruments Class 1
MUSC 215 High Brass Instruments Class 1
MUSC 217 Woodwind Instruments Class I 1

Music Methods
MUSC 287 Music Technology 3
MUSC 335 Basic Conducting 2
MUSD 279 Practicum in Music Education 3
MUSD 335 Choral Conducting 2
MUSD 379 Music in the Elementary and Junior High or Middle School 3
MUSD 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) 3

Professional Studies
EDUC 413 Educational Psychology - Social Aspects 3
EDUC 414 Educational Psychology - Cognitive Aspects 3
EDUC 419 Diversity in the Classroom 3
EDUC 400 Student Teaching 9
EDUC 430 Classroom Management 1

Grade of C- or better required in Professional Studies courses.

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 must also
pass a teacher competency test as established by the University Council on
Teacher Education. Students should consult the teacher education program
coordinator (see list on p. 182) to obtain the student teaching application
and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF ......................... 134
MUSC 485 Pedagogy of Theory
MUSC 420 Advanced Composition (two semesters)
or
MUSC 420 Advanced Composition (one semester) and
MUSC Theory, literature or applied music elective

Composition Concentration
MUSC 485 Pedagogy of Theory
MUSC 420 Advanced Composition (three semesters required)

Literature
MUSC 211 Introduction to Music History .......... 3
MUSC 311 Music History: 400-1600 .......... 3
MUSC 312 Music History: 1600-1827 .......... 3
MUSC 313 Music History: 1825 to the Present .......... 3
MUSC 407 Twentieth-Century Music .......... 3

Ensemble
A variety of ensembles are recommended, including Chamber ensembles .... 4

CREDITS TO TOTAL A MINIMUM OF ............... 126

HONORS BACHELOR OF ARTS: MUSIC
HONORS BACHELOR OF MUSIC: THEORY AND COMPOSITION
The recipient must complete:
1. All requirements for the Bachelor of Arts in Music or the Bachelor of Music in Theory and Composition.
2. All the University's generic requirements for the Honors Degree (see page 43 of this catalog).

REQUIREMENTS FOR A MINOR IN MUSIC
A minimum grade of C is required in each course for music minors.

MUSIC MINOR: APPLIED MUSIC–PRINCIPAL INSTRUMENT
This title represents 19 applied music minors, the actual titles of which include the name of the instrument of study (e.g. Applied Music–Bassoon). A list of applied music minors can be found in the chart on page ix in the front of this catalog, or can be obtained from the Department or the College of Arts and Science Advisement Center.

The Applied Music minor is for nonmusic majors with some musical background who wish to continue their musical training on a more formal basis or music majors 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 musicality testing. The requirements are:

MUSC 175 Class Piano .......... 1
MUSC 181 and 281 Jazz Styles/tech .......... 3
MUSC 182 and 282 Ear Training and Sight Singing .......... 2
MUSC 195 Theory/Composition .......... 6
MUSC 291 Practicum in Church Music
MUSC 292 Organ Improvisation and Service Playing
[Prerequisites: MUSC 185 and 195; and two semesters of organ study, or permission of the instructor]
MUSC 400 Internship .... 1-3
[Prerequisites: MUSC 212, 291, 292]

Total Credits ........................................... 19-21

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:

MUSC 181 and 281 Jazz Styles/tech .......... 4
MUSC 116 (four semesters), MUSC 321 Ensemble .......... 5
MUSC 293 and 294 Jazz Improvisation .......... 6
MUSC 197 Jazz Harmony .......... 3
MUSC 267 History of Jazz .......... 3

Total Credits ........................................... 21

MUSIC MINOR: MUSIC MANAGEMENT STUDIES
The minor in music management studies examines the theory and practice of core principles in both the nonprofit and the for-profit sectors of music. The minor is intended for music majors who wish to broaden the scope of their studies and enhance their career options; and non-music majors with musical experience and understanding who wish to develop their careers or further their interest in music-related fields.

In declaring the minor, students who are not also music majors will select a music emphasis from the following areas: Music History/Literature, Music Theory/Composition, Jazz, or Applied Music and will complete between 8 and 11 credits of music courses within that area of emphasis. Students interested in the minor in Music Management Studies are strongly urged to seek advisement from the music department no later than the sophomore year.

All students selecting the minor, both music majors and non-music majors, will complete a core component of 10-12 credits as follows:

MUSC 388 Principles of Music Industry Practice .......... 3
MUSC 389 Elements of Music Management .......... 3
MUSC 309 Patterns of Patronage .......... 3
MUSC 454 Internship .......... 1-3

Total Credits ........................................... 18-23

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:

MUSC 185 Ear Training and Sight Singing .......... 2
MUSC 195 Harmony .......... 3
PHYSIALHYPHYSIOLOGY

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 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.

PHILOSOPHY

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

Both of the following History of Philosophy courses

PHIL 301 Ancient Philosophy
PHIL 303 Modern Philosophy

One of the following Logic courses

PHIL 105 Critical Thinking
PHIL 205 Logic

One of the following Ethics courses

PHIL 201 Social and Political Philosophy
PHIL 203 Ethics

One of the following Epistemology courses

PHIL 305 Twentieth Century Philosophy
PHIL 306 Philosophy of Science
PHIL 320 Theory of Knowledge

One of the following Metaphysics courses

PHIL 305 Twentieth Century Philosophy
PHIL 315 Metaphysics
PHIL 330 Philosophy of Mind

One of the following History of Philosophy courses

PHIL 311 Introduction to Music History
PHIL 313 History of Philosophy: 1825 to Present

MUSC Ensemble

MUSC History/Literature Elective

MUSC Theory Elective

Total Credits .................................................. 18-19

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.

PHILOSOPHY

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

Both of the following History of Philosophy courses

PHIL 301 Ancient Philosophy
PHIL 303 Modern Philosophy

One of the following Logic courses

PHIL 105 Critical Thinking
PHIL 205 Logic

One of the following Ethics courses

PHIL 201 Social and Political Philosophy
PHIL 203 Ethics

One of the following Epistemology courses

PHIL 305 Twentieth Century Philosophy
PHIL 306 Philosophy of Science
PHIL 320 Theory of Knowledge

One of the following Metaphysics courses

PHIL 305 Twentieth Century Philosophy
PHIL 315 Metaphysics
PHIL 330 Philosophy of Mind

PHYSICS AND ASTRONOMY

The Department of Physics and Astronomy offers an undergraduate major program leading to the B.S. in physics, with the option of a concentration in astronomy/astrophysics, chemical physics, or materials physics. A concentration in Geophysics is offered as an option within the B.S. degree in Geology (see the Geology section of this chapter). There are also majors leading to the B.A. in physics and to the B.A. in Physics Education, as well as a minor in physics.

The department 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 housed in Sharp Laboratory, is diverse and substantial. Undergraduate participation in research is encouraged.

Telephone: (302) 831-2661
http://www.physics.udel.edu/

DEGREE: BACHELOR OF ARTS
MAJOR: PHYSICS

CURRICULUM CREDITS
See page 78 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
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 207/208 Fundamentals of Physics I and II (strongly recommended) 8
PHYS 201/202 Introductory Physics I and II 8

A total of twenty-one credits from Groups A, Band C is 21

Group B: required with a minimum of six credits in each group
The six credits will attempt to fulfill the requirement in that language by taking an exemption.

Group Breadth Requirements
Language Number of credits needed and initial placement will depend on the number of years of high school study of foreign 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.

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

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. 57).

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 60 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Foreign Language:
Completion of the intermediate-level course (107 or 112) in a given language. Number of credits needed and initial placement will depend on number of years of high school study of foreign 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 82)
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
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 207/208 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 207/208/209 Fundamentals of Physics I, II and III (See list of courses approved for second writing requirement, page 81.)

PHYS 306 Computational Methods of Physics 3
PHYS 313 Physical Optics 4
PHYS 419 Classical Mechanics I 3
PHYS 422 Quantum Mechanics 3
PHYS 603/604 Electricity and Magnetism I and II 6
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

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

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. 57).

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 60 credit hours. Appropriate writing courses are normally designated in the semester’s Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Foreign Language:
Completion of the intermediate-level course (107 or 112) in a given language. Number of credits needed and initial placement will depend on number of years of high school study of foreign 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 82)
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
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 207/208 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 207/208/209 Fundamentals of Physics I, II and III 11

PHYS 306 Computational Methods of Physics 3
PHYS 313 Physical Optics 4
PHYS 419 Classical Mechanics I 3
PHYS 422 Quantum Mechanics 3
PHYS 603/604 Electricity and Magnetism I and II 6
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

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
MATH 241/242/243 Analytic Geometry and Calculus A, Band C

MAJOR REQUIREMENTS
from among PHYS 202, 208 Students interested in majoring in Physics who
PHYS 306 Computational Methods of Physics
PHYS 312 Physical Optics
PHYS 419 Classical Mechanics I
PHYS 603 Electricity and Magnetism I
PHYS 616 Kinetic Theory and Thermodynamics
PHYS 620 Classical Mechanics II
PHYS 621 Fundamentals of Modern Physics I
PHYS 632 Astrophysics
PHYS 633 Stellar Astrophysics
PHYS 645 Electronics for Scientists
PHYS 646 Instrumentation for Scientists
MATH 241/242/243 Analytic Geometry and Calculus A, B and C

136

Ordinarily, no more than four credits from among PHYS 201, and 207 may
PHYS 306 Computational Methods of Physics
PHYS 312 Physical Optics
PHYS 419 Classical Mechanics I
PHYS 603 Electricity and Magnetism I
PHYS 616 Kinetic Theory and Thermodynamics
PHYS 621 Fundamentals of Modern Physics I
PHYS 645 Electronics for Scientists
PHYS 646 Instrumentation for Scientists
MATH 241/242/243 Analytic Geometry and Calculus A, B and C

136

Ordinarily, no more than four credits from among PHYS 201, and 207 may
PHYS 306 Computational Methods of Physics
PHYS 312 Physical Optics
PHYS 419 Classical Mechanics I
PHYS 603 Electricity and Magnetism I
PHYS 616 Kinetic Theory and Thermodynamics
PHYS 621 Fundamentals of Modern Physics I
PHYS 645 Electronics for Scientists
PHYS 646 Instrumentation for Scientists
MATH 241/242/243 Analytic Geometry and Calculus A, B and C

136

Ordinarily, no more than four credits from among PHYS 201, and 207 may
PHYS 306 Computational Methods of Physics
PHYS 312 Physical Optics
PHYS 419 Classical Mechanics I
PHYS 603 Electricity and Magnetism I
PHYS 616 Kinetic Theory and Thermodynamics
PHYS 621 Fundamentals of Modern Physics I
PHYS 645 Electronics for Scientists
PHYS 646 Instrumentation for Scientists
MATH 241/242/243 Analytic Geometry and Calculus A, B and C

136

Ordinarily, no more than four credits from among PHYS 201, and 207 may
PHYS 306 Computational Methods of Physics
PHYS 312 Physical Optics
PHYS 419 Classical Mechanics I
PHYS 603 Electricity and Magnetism I
PHYS 616 Kinetic Theory and Thermodynamics
PHYS 621 Fundamentals of Modern Physics I
PHYS 645 Electronics for Scientists
PHYS 646 Instrumentation for Scientists
MATH 241/242/243 Analytic Geometry and Calculus A, B and C

136
DEGREE: BACHELOR OF ARTS
MAJOR: PHYSICS EDUCATION

Curriculum Credits

See page 78 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

PHYS 207/208/209 Fundamentals of Physics I, II and III 11
Nineteen credits in PHYS, fifteen of which must be at the 300-level or higher 19
MATH 241/242/243 Analytic Geometry and Calculus A, B and C 12
MATH 302 Ordinary Differential Equations 3
CHEM 103/104 General Chemistry 8
EDUC 413 Educational Psychology - Social Aspects 3
EDUC 414 Educational Psychology - Cognitive Aspects 3
EDUC 419 Diversity in the Classroom 3
SCEN 491 Teaching Science in Secondary Schools 4
EDUC 420 Student Teaching 9
EDUC 420 Reading in the Content Areas 1
EDUC 430 Classroom Management 1

A grade of C- or better is required in all required PHYS, MATH, CHEM, and EDUC courses.

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. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see list on p. 182) to obtain the student teaching application and other information concerning student teaching policies.

Credits to Total a Minimum of 124

HONORS BACHELOR OF SCIENCE: PHYSICS

The recipient must complete:
1. All requirements for the Bachelor of Science in Physics.
2. All the University's generic requirements for the Honors Degree (see page 43 of this catalog).
3. At least six of the Honors credits in Physics must be in courses beyond those specified for the B.S. in Physics major requirements, chosen from PHYS 607, 608, 610, 624, 627, 638. The Department may designate other special courses that satisfy this requirement.

Requirements for a Minor in Physics

Students in other majors can declare 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 AND INTERNATIONAL RELATIONS

The Department of Political Science and International Relations administers undergraduate programs in political science and an interdisciplinary major in international relations.

Telephone: (302) 831-2355
http://www.udel.edu/poscir/

Political science majors acquire a broad introduction to the study of government and politics within a liberal arts tradition. All majors are required to complete a set of core courses that provide an introduction to political science, American government, global politics or political theory, research methods and a capstone experience. Beyond the core courses, majors may choose to specialize in one of five concentrations, or to major in political science without a concentration. In both cases, students are required to take their remaining credits at the upper level (300- and 400-level). Course work for both major options with or without a concentration helps students develop analytical and written and oral communication skills and prepares them for a wide array of careers (including law) and active citizenship. Political science majors are strongly encouraged to take advantage of many experiential learning opportunities including internships, independent research under faculty supervision, study abroad, or service learning. Detailed explanations of major requirements and experiential learning opportunities are available in the department office.

UD students who wish to change their major to political science must have completed POSC 150 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 cumulative grade point average to change their major to political science. Students transferring into the major from outside the University of Delaware will have their transcripts evaluated on a case-by-case basis.

The department maintains an advisory program for pre-law students and for students interested in government service.

DEGREE: BACHELOR OF ARTS
MAJOR: POLITICAL SCIENCE

Curriculum Credits

See page 78 for University and College requirements.

Major Requirements

Core Courses for the Major:
POSC 100 Introduction to Political Science 3
POSC 150 American Political System 3
POSC 300 Data Analysis for Political Science 3
POSC 499 Capstone for Political Science 1
One of the following courses: 3
POSC 106 Introduction to Political Science: Issues
POSC 240 Introduction to International Relations
POSC 270 Comparative Politics
POSC 285 Currents in Political Theory

Students must choose one of the following options:

Option One: Major Without Concentration
Eighteen credits distributed as follows: 16
* nine credits from POSC courses at the 400-level
* nine credits from POSC courses at the 300- or 400-level

Within these eighteen credits, the courses must represent four of the five fields listed below: (Detailed list of courses available from department office.)

a. American Government and Politics
b. Comparative Government and Politics
c. International Relations
d. Public Administration and Public Policy
e. Political Theory

Option Two: Major With Concentration
Students may choose from among five concentrations: (1) American Politics, (2) Global Studies, (3) Politics and Journalism, (4) Public Law, (5) Public Policy and Public Administration.

American Politics Concentration
One of the following 3
POSC 220 Introduction to Public Policy
POSC 301 State and Local Government
POSC 387 American Political Thought

Five courses from the following four groups, with at least three of the groups represented and at least two courses taken at the 400-level 15
Race and Gender
POSC 321 Class, Ethnicity and Politics
POSC 322 Race and Politics
POSC 323 Introduction to Women and Politics

Political Participation
POSC 320 Parties and Interest Groups
POSC 324 Voting and Elections
POSC 340 Politics and Media

Political Institutions
POSC 404 The Judicial Process
POSC 407 American Presidency
POSC 412 Problems in American Government
POSC 422 Political Leadership
POSC 423 Congress and Public Policy

Political Thought
POSC 334 Liberalism and Conservatism
POSC 483 Who Governs: Perspectives on Political Power

Global Studies Concentration
One of the following (will fulfill one of the core courses required of all majors):
POSC 340 Introduction to International Relations
POSC 316 American Foreign Policy
POSC 329 International Migration
POSC 333 Communist, Fascist and Democracy
POSC 341 Environment of the Multinational Corporation
POSC 363 International Law and Organization
POSC 365 Model United Nations
POSC 408 International Organizations
POSC 409 Problems in World Politics
POSC 414 Problems in American Foreign Policy
POSC 415 Force and World Politics
POSC 422 Political Leadership
POSC 444 Seminar in World Politics
POSC 445 Human Rights and World Politics
POSC 446 International Human Rights on Film
POSC 448 Theories of International Relations
POSC 453 The United Nations and World Affairs

Three of the following, with at least one at the 400-level
POSC 309 Political Culture by Country
POSC 310 European Governments
POSC 311 Politics of Developing Nations
POSC 312 East Asian Political Systems
POSC 315 Third World Women in Politics
POSC 339 Britain and Europe
POSC 372 East Central European Politics
POSC 377 Arab-Israeli Politics
POSC 412 Foreign Policy of the Post-Soviet Union
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 439 Problems in 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 450 Problems of Latin American Politics
POSC 465 Model OAS

Politics and Journalism Concentration
POSC 340 Media and Politics
ENGL 307 News Writing and Editing

The following course is required for the concentration and will fulfill one of the core courses required of all majors:
POSC 240 Introduction to International Relations

Four of the following, with at least two at the 400-level
POSC 301 State and Local Government
POSC 311 Politics of Developing Nations
POSC 313 American Foreign Policy
POSC 319 Topics in Politics and Broadcast Journalism
POSC 320 Parties and Interest Groups
POSC 343 Society, Politics and Health Care
POSC 350 Politics and the Environment
POSC 404 The Judicial Process
POSC 407 American Presidency
POSC 409 Contemporary Problems of World Politics
POSC 411 Politics and Poverty
POSC 412 Problems in American Government
POSC 413 Problems in American Foreign Policy
POSC 415 Force and World Politics
POSC 423 Congress and Public Policy
POSC 425 Topics in Politics and Broadcast Journalism
POSC 437 Who Governs: Perspectives on Political Power
POSC 445 Human Rights and World Politics
POSC 456 Disaster and Politics

Three of the following:
ENGL 308 Reporters Practicum
ENGL 309 Feature and Magazine Writing
ENGL 310 Copy Editing and Layout
ENGL 407 Advanced Reporting
ENGL 408 Sports Writing
ENGL 409 Topics in Journalism

Public Law Concentration
POSC 380 Introduction to Law
POSC 402 American Civil Liberties
POSC 405 Constitutional Law

One of the following:
POSC 387 American Political Thought
POSC 434 Political Thought I
POSC 435 Political Thought II

Two of the following:
POSC 363 International Law and Organization
POSC 404 Judicial Process
POSC 406 American Civil Liberties
POSC 407 American Presidency
POSC 413 Gender, Sex and US Law
POSC 423 Congress and Public Policy
POSC 445 Human Rights and World Politics

Three of the following, with at least two at the 400-level
POSC 301 State and Local Government
POSC 306 Economic Theory and Politics
POSC 343 Society, Politics, and Health Care
POSC 350 Politics and the Environment
POSC 355 Urban Politics and Community Development
POSC 408 International Organization
POSC 411 Politics and Poverty
POSC 415 Force and World Politics
POSC 420 Introduction to Political Economy
POSC 424 Energy Policy and Administration
POSC 452 Problems in Urban Politics
POSC 453 Public Sector Human Resource Management
POSC 454 Organizational Behavior and Theory in the Public Sector
POSC 455 Public Budgeting and Financial Management
POSC 456 Disaster and Politics

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: Political Science Education

Curriculum
See page 78 for University and College requirements.

Major Requirements
POSC 100 Introduction to Political Science
POSC 150 American Political System
POSC 300 Data Analysis for Political Science
POSC 499 Capstone for Political Science

One of the following:
POSC 106 Introduction to Political Science: Issues
POSC 240 Introduction to International Relations
POSC 270 Comparative Politics
POSC 285 Currents in Political Theory
Eighteen credits distributed as follows: .......................... 18
* nine credits from POSC courses at the 300-level
* nine credits from POSC courses at the 400-level and at least 2 in the area of International Relations

Within these eighteen credits, the courses must represent four of the five fields listed below. [Detailed list of courses available from department office]

a. American Government and Politics
b. Comparative Government and Politics
c. International Relations
d. Public Administration and Public Policy
e. Political Theory

ECON 151 Introduction to Macroeconomics .......................... 3
ECON 152 Introduction to Macroeconomics .......................... 3
One additional ECON course .......................... 3

GEOR 120 World Regional Geography .......................... 3
Two additional GEOR courses .......................... 6

HIST 104 World History 1648 to Present .......................... 3
HIST 206 U.S. History 1865 to Present .......................... 3
HIST 491 Planning a Course of Instruction .......................... 3
HIST 493 Seminar: Problems in Teaching History and Social Sciences .......................... 3
One additional HIST course .......................... 3

EDUC 400 Student Teaching .......................... 9
EDUC 413 Educational Psychology - Social Aspects .......................... 3
EDUC 414 Educational Psychology - Cognitive Aspects .......................... 3
EDUC 419 Diversity in the Classroom .......................... 3
EDUC 420 Reading in the Content Areas .......................... 1
EDUC 430 Classroom Management .......................... 1

A grade of C- or better is required in all required EDUC, ECON, GEOR, HIST, and POSC courses.

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 must also pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see the list of advisors for teacher education courses) to obtain the student teaching application and other information concerning student teaching policies.

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

HONORS BACHELOR OF ARTS:
POLITICAL SCIENCE OR POLITICAL SCIENCE EDUCATION

A candidate for the Honors Bachelor of Arts in Political Science or Political Science Education must:
1. Fulfill all requirements for the B.A. in Political Science or Political Science Education.
2. Fulfill all the University’s generic requirements for the Honors Degree (see page 43 of this catalog).

The Honors credits in the major shall come from at least two different fields within the discipline.

DEGREE: BACHELOR OF ARTS
MAJOR: FRENCH, GERMAN, OR SPANISH/POLITICAL SCIENCE

See page 78 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-

POS C 150 The American Political System .......................... 3
(300-400 level language courses)
POS C 240 Introduction to International Relations .......................... 3
POS C 270 Comparative Politics .......................... 3
POS C 310 European Governments .......................... 3
POS C 441 Problems of Western European Politics by Country .......................... 3
POS C 442 Problems of Western European Politics .......................... 3

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)

One of the following language options:
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 300 or FREN 400
FREN 308
FREN 355 or FREN 455
HIST 339

German
GRMN 300 or GRMN 400
GRMN 308
GRMN 355 or GRMN 455
HIST 339

Spanish
SPAN 300 or SPAN 400
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.

HONORS BACHELOR OF ARTS:
FRENCH, GERMAN, OR SPANISH/POLITICAL SCIENCE

Students wishing to complete an Honors B.A. in French, German, or Spanish/Political Science must:
1. Complete all requirements of the B.A. in French, German, or Spanish/Political Science.
2. Complete all the University’s generic requirements for the Honors Degree (see page 43 of this catalog).
3. Achieve a cumulative grade point average for all courses in the major of at least 3.400.

REQUIREMENTS FOR A MINOR IN POLITICAL SCIENCE
The required 15 credits for a minor in Political Science are as follows:

POSC 150 American Political System .......................... 3
POSC 300 Data Analysis for Political Science .......................... 3
One additional POSC course at the 300- or 400-level
Two additional POSC courses at the 400-level .......................... 6
The three additional POSC courses at the 300- and 400-level should be
taken in two of the five fields below:
a. American Government and Politics
b. Comparative Government and Politics
c. International Relations
d. Public Administration and Public Policy
e. Political Theory

REQUIREMENTS FOR A MINOR IN PUBLIC ADMINISTRATION

The required 18 credits for this minor are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 150 American Political System</td>
<td>3</td>
</tr>
<tr>
<td>POSC 300 Data Analysis for Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POSC 303 The Administrative Process</td>
<td>3</td>
</tr>
<tr>
<td>POSC 464 Fieldwork in Political Science</td>
<td>3</td>
</tr>
<tr>
<td>Two of the following courses:</td>
<td>6</td>
</tr>
<tr>
<td>POSC 453 Public Personnel Administration</td>
<td></td>
</tr>
<tr>
<td>POSC 454 Public Administrative and Organizational Theory</td>
<td></td>
</tr>
<tr>
<td>POSC 455 Public Budgeting and Financial Management</td>
<td></td>
</tr>
</tbody>
</table>

INTERNATIONAL RELATIONS

International Relations (IR) is an interdisciplinary major in the Col-
lege of Arts and Science with core (24 credits), concentration (18
credits), and regional specialization (9 credits) requirements. Stu-
dents must choose one of four concentrations and one of six regional
specializations, as detailed in the curriculum below. An honors
degree option is available.

Area Studies Programs: Students whose regional specialization is
Africa, East Asia, or Latin America should give serious considera-
tion to adding one of the university's Area Studies programs: African
Studies, East Asian Studies, and Latin American Studies. Course
work in these area studies programs will allow students to develop
much richer and deeper knowledge of these regions. Moreover, most
of the courses approved for the Regional Specialization within the
International Relations major are also approved as fulfilling the Area
Studies requirements thereby facilitating a minor or double major
with an area studies program.

Study Abroad, Internships, and Undergraduate Research: Inter-
national Relations majors are strongly encouraged to consider a
study abroad experience as a part of their program. Students partici-
pating in study abroad programs not only enrich their education
through exposure to foreign cultures, but often have the opportunity
to take courses, internships, and undertake other educational experi-
ences abroad not otherwise offered in University of Delaware course
lists. In many instances, these courses may count towards IR Concen-
tration and Regional Specialization requirements. Similarly, intern-
ships and undergraduate research experiences offered from the
Newark campus may be applied to IR Concentration and Regional
Specialization requirements. Students should check with the IR Pro-
gram Director when enrolling in study abroad courses and programs,
internships, and undergraduate research programs to determine if the
specific course, program, or educational experience meets a particu-
lar IR major requirement, or, if some major requirement might be
waived by means of study abroad, internships, or undergraduate
research programs.

Transfer Students: Students changing their major to interna-
tional 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.

DEGREE: BACHELOR OF ARTS
MAJOR: INTERNATIONAL RELATIONS

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

The core consists of 24 hours of course work:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 240 Introduction to International Relations</td>
<td>3</td>
</tr>
<tr>
<td>ECON 151 Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 152 Introduction to Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 390 International Economics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 101 World Regional Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

One Foreign Languages and Literatures course beyond the
intermediate level taught in the relevant language

One course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 102 Western Civilization 1648 to Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 104 World History 1648 to Present</td>
<td>3</td>
</tr>
</tbody>
</table>

And one history course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 130 Islamic Near East 1500 to Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 131 History of Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 135 Introduction to Latin American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 137 East Asian Civilization: China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 138 East Asian Civilization: Japan</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentrations

Students must choose one of four IR concentrations: (1) Development, (2)
Diplomacy and World Order, (3) International Political Economy, or (4)
U.S. Foreign Policy. Each concentration requires 18 hours of course
work. At least three courses must be taken at the 400-level in each concentration.

Development Concentration

Required

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 311 Politics of Developing Nations</td>
<td>3</td>
</tr>
</tbody>
</table>

At least two (6 credits) from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 315 Third World Women in Politics</td>
<td>3</td>
</tr>
<tr>
<td>POSC 316 International Political Economy</td>
<td>3</td>
</tr>
<tr>
<td>POSC 341 Environment of Multinational Corporations</td>
<td>3</td>
</tr>
<tr>
<td>POSC 362 Diplomacy</td>
<td>3</td>
</tr>
<tr>
<td>POSC 408 Problems of International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POSC 414 Problems of U.S. Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>POSC 444 Seminar in World Politics</td>
<td>3</td>
</tr>
<tr>
<td>POSC 445 Human Rights and World Politics</td>
<td>3</td>
</tr>
<tr>
<td>POSC 448 Theories of International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POSC 463 The United Nations and World Affairs</td>
<td>3</td>
</tr>
<tr>
<td>POSC 465 Model OAS</td>
<td>3</td>
</tr>
<tr>
<td>POSC 640 International Development Policy and Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

At least one (3 credits) from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 329 Comparative Economic Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECON 331 Economics of Developing Countries</td>
<td>3</td>
</tr>
<tr>
<td>ECON 341 Environment of Multinational Corporations</td>
<td>3</td>
</tr>
<tr>
<td>ECON 405 Planned Economies</td>
<td>3</td>
</tr>
<tr>
<td>ECON 411 Economic Theory of Developing Countries</td>
<td>3</td>
</tr>
<tr>
<td>ECON 443 International Monetary Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

Other courses approved to fulfill the
18 credit minimum in addition to courses listed above          0-6

ANTH 222 Technology and Culture
ANTH 223 Peasant Societies
ANTH 230 Peoples of the World
ANTH 231 Personality and Culture
ANTH 330 Development and Underdevelopment
ANTH 363 Women in Cross-Cultural Development
ANTH 370 Culture/Food Production and Economic Development
ANTH 408 The Idea of Race
GEOG 210 Economic Geography
GEOG 236 Conservation: Global Issues
GEOG 422 Resources Development and the Environment
GEOG 460 Women in International Development
HIST 395 Pan Africanism
SOC 210 Population Problems
SOC 360 Sociology of Religion
SOC 361 Race, Power and Social Conflict
SOC 380 Development and Modernization
SOC 460 Women in International Development
FREC 410 International Agricultural Trade
FREC 420 Agriculture in Economic Development
PHIL 204 World Religions
Diplomacy and World Order Concentration

Required:
- POSC 362 Diplomacy ............................................. 3
- At least two (6 credits) from:
  - POSC 313 American Foreign Policy .................................. 3
  - POSC 316 International Political Economy .......................... 3
  - POSC 330 Political Terrorism ........................................ 3
  - POSC 333 Communism, Fascism, and Democracy ...................... 3
  - POSC 341 Environment of Multinational Corporations .............. 3
  - ECON 341 Environment of Multinational Corporations ............ 3
  - ECON 411 Economic Theory of Developing Countries .............. 3
  - ECON 443 International Monetary Economics ...................... 3
- At least one (3 credits) from:
  - ECON 305 Comparative Economic Systems .......................... 3
  - ECON 341 Environment of Multinational Corporations ............ 3
  - ECON 443 International Monetary Economics ...................... 3

Other courses approved to fulfill the 18 credit concentration minimum in addition to courses listed above .......... 0-6

ANTH 222 Technology and Culture
ANTH 230 Peoples of the World
ANTH 408 The Idea of Race
ANTH 333 Peoples of Africa
ANTH 337 Social and Cultural Change
ANTH 401 The Idea of Race
GEOG 203 Introduction to Cultural Geography
GEOG 210 Economic Geography
GEOG 236 Conservation: Global Issues
GEOG 422 Resources Development and the Environment
GEOG 426 World Cities in Comparative Perspective
GEOG 460 Women in International Development
HIST 210 War and Society
HIST 302 The World in Our Time
HIST 306 History of U.S. Foreign Policy
HIST 351 Europe in Crisis 1919-1945
HIST 408 International Organization
HIST 491 Seminar in Military History
HIST 493 Seminar in Comparative History
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 400 Women in International Development
FREC 410 International Agricultural Trade
FREC 420 Agriculture in Economic Development
PHIL 204 World Religions

International Political Economy Concentration

Required:
- POSC 316 International Political Economy .................................. 3
- At least two (6 credits) from:
  - POSC 333 Communism, Fascism, and Democracy ...................... 3
  - POSC 341 Environment of Multinational Corporations .............. 3
  - POSC 362 Diplomacy ............................................. 3
  - POSC 409 Problems of International Relations .......................... 3
  - POSC 448 Theories of International Relations .......................... 3
  - POSC 640 International Development and Policy Administration .... 3
- At least one (3 credits) from:
  - ECON 305 Comparative Economic Systems .......................... 3
  - ECON 311 Economics of Developing Countries ................. 3
  - ECON 341 Environment of Multinational Corporations ............ 3
  - ECON 405 Planned Economies ...................................... 3
  - ECON 411 Economic Theory of Developing Countries .............. 3
  - ECON 443 International Monetary Economics ...................... 3

Other courses approved to fulfill the 18 credit concentration minimum in addition to courses listed above .......... 0-6

ANTH 222 Technology and Culture
ANTH 230 Peoples of the World
ANTH 370 Culture/Food Production and Economic Development
ANTH 401 The Idea of Race
GEOG 203 Introduction to Cultural Geography
GEOG 210 Economic Geography
GEOG 236 Conservation: Global Issues
GEOG 422 Resources Development and the Environment
GEOG 426 World Cities in Comparative Perspective
GEOG 460 Women in International Development
HIST 210 War and Society
HIST 302 The World in Our Time
HIST 306 History of U.S. Foreign Policy
HIST 351 Europe in Crisis 1919-1945
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
PHIL 204 World Religions

Regional Specializations

Students must choose one of six regional specializations: (1) Africa, (2) Asia, (3) Europe, (4) Latin America, (5) Middle East, (6) Russia/Central Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization

African Specialization

At least one course (3 credits) from:
- POSC 311 Politics of Developing Countries
- POSC 433 African Politics
- POSC 439 Southern African Politics
- Any two courses from:
  - ANTH 225 Peasant Societies
  - ANTH 226 Sociocultural History of Africa
  - ANTH 330 Development and Underdevelopment
  - ANTH 333 Peoples of Africa
  - HIST 124 History of Africa
  - HIST 330 Peasants and Revolution in Africa

141
ANTH 394 Africa Since 1960
ANTH 395 Pop Africanism
ANTH 397 History of South Africa
ANTH 439 Women and Revolution in Africa
ANTH 440 Africa Under Colonial Rule

Asian Specialization
At least one course (3 credits) from:

- POSC 270 Comparative Politics
- POSC 311 Politics of Developing Countries
- POSC 312 East Asian Political Systems
- POSC 427 Politics in China
- POSC 428 Politics in Japan
- POSC 443 China and the World

Any two courses from:

- ANTH 225 Peasant Societies
- ANTH 330 Development and Underdevelopment
- ECON 305 Comparative Economic Systems
- ECON 311 Ecologies of the Developing Countries
- ECON 341 Environment of Multinational Corporations
- ECON 405 The Planned Economies
- ECON 411 Economic Theory of Developing Countries

HIST 137 East and Southeast Asia
HIST 138 East Asian Civilization: Japan
HIST 270 History of Modern Asia
HIST 368 History of China 1600-1920
HIST 369 History of Japan Since 1900
HIST 370 History of Modern Japan
HIST 390 History of Modern Southeast Asia
HIST 393 History of Modern Vietnam
HIST 479 Studies in Asian History
PHIL 309 Indian Religion and Philosophy
PHIL 310 Chinese Religion and Philosophy

European Specialization
At least one course (3 credits) from:

- POSC 270 Comparative Politics
- POSC 310 European Government
- POSC 339 Britain and Europe
- POSC 441 Problems of European Politics: Countries
- POSC 442 Problems of Western European Politics

Any two courses from:

- ANTH 225 Peasant Societies
- ANTH 226 Peoples of Europe
- ECON 305 Comparative Economic Systems
- ECON 318 Economic History of France
- ECON 341 Environment of Multinational Corporations
- ECON 344 The Making of the European Economy
- ECON 348 Industrial Policies of France
- ECON 444 Analysis of European Economic Performance

GEOG 454 New Europe: Culture, Geopolitics, Milieu
HIST 264 The Jewish Holocaust, 1933-1945
HIST 313 Modern Germany, 1770-1919
HIST 339 Topics in Modern Europe History
HIST 350 Europe in the Nineteenth Century
HIST 351 Europe in Crisis, 1919-1945
HIST 352 Contemporary European Society
HIST 354 Germany in the Twentieth Century
HIST 360 Modern Ireland, 1343 to Present
HIST 374 History of England to 1715
HIST 375 History of England 1715 to Present
HIST 376 English Legal and Constitutional History
HIST 474 Studies in English History
HIST 475 Seminar in Modern European History
SPAN 308 Contemporary Spain II
GRMN 308 Contemporary Germany II
ITAL 308 Contemporary Italy II
FREN 308 Contemporary France II

Latin American Specialization
At least one course (3 credits) from:

- POSC 270 Comparative Politics
- POSC 311 Politics of Developing Nations
- POSC 426 Latin American Political System
- POSC 431 Latin American Politics: Country

Any two courses from:

- ANTH 225 Peasant Societies
- ANTH 327 Peoples of the Caribbean
- ANTH 330 Development and Underdevelopment
- ANTH 375 Peoples of Modern Central America
- ANTH 380 Peoples of Mexico and Central America

- ECON 305 Comparative Economic Systems
- ECON 311 Economics of Developing Countries
- ECON 341 Environment of Multinational Corporations
- ECON 411 Economic Theory of Developing Countries
- GEOG 226 Geography of Latin America
- HIST 135 Introduction to Latin American History
- HIST 331 Caribbean History I
- HIST 332 Caribbean History II
- HIST 334 History of Mexico
- HIST 355 Colonial Latin America
- HIST 356 Topics in Latin American History
- HIST 349 Hispanic Societies: 1800-1900
- HIST 430 Seminar in 20th Century Latin America
- HIST 477 Studies in Latin American History

Middle East Specialization
At least one course (3 credits) from:

- POSC 270 Comparative Politics
- POSC 311 Politics of Developing Nations
- POSC 377 Arab-Israeli Politics

Any two courses from:

- ANTH 330 Development and Underdevelopment
- ECON 305 Comparative Economic Systems
- ECON 341 Environment of Multinational Corporations
- HIST 131 Islamic Near East 1500 to Present
- HIST 377 Islamic Movement
- HIST 380 Arab-Israeli Conflict

Russia/Central European Specialization
At least one course (3 credits) from:

- POSC 270 Comparative Politics
- POSC 372 East Central European Politics
- POSC 412 Foreign Policy of Post-Soviet Union
- POSC 432 Political System Post-Soviet Union

Any two courses from:

- ANTH 225 Peasant Societies
- ECON 305 Comparative Economic Systems
- ECON 405 The Planned Economies
- ECON 411 Economic Theory of Developing Countries
- ECON 444 Analysis of European Economic Performance
- GEOG 454 New Europe: Culture, Geopolitics, Milieu
- HIST 358 Russian History, 1801-1917
- HIST 359 Soviet Russia, 1917-1990

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

HONORS BACHELOR OF ARTS: INTERNATIONAL RELATIONS

A candidate for the Honors Bachelor of Arts in International Relations must:
1. Fulfill all requirements for the B.A. in International Relations
2. Fulfill all the University’s generic requirements for the Honors Degree (see page 43 of this catalog).

The Honors credits in the major shall come from at least three different departments represented in the International Relations curriculum.

PSYCHOLOGY

The department of Psychology offers a B.A. degree with a major in psychology, a B.A. degree with a major in Psychology Education, and a minor in Psychology. In addition, an interdepartmental major between psychology and biology with an emphasis on neuroscience is also available.

Psychology is a biological, behavioral, social, and applied science, whose theories are integral to an understanding of ourselves and our place in the world. 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 of the Arts and Science Advisement Center and Dean’s Office.
The courses offered by the Department of Psychology provide 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 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.

Telephone: (302) 831-2271
http://www.udel.edu/skeen/PSY/PSYhome.html

DEGREE: BACHELOR OF ARTS
MAJOR: PSYCHOLOGY

CURRICULUM

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

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.
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: .................................... 3
PSYC 301 Personality
PSYC 303 Introduction to Social Psychology
PSYC 325 Child Psychology
PSYC 334 Abnormal Psychology
One of the following four courses: .................................... 3
PSYC 350 Developmental Psychology
PSYC 370 Research in Personality
PSYC 380 Psychopathology
PSYC 390 Social Psychology
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: .................................... 6
PSYC 310 Sensation and Perception
PSYC 312 Learning and Motivation
PSYC 314 Brain and Behavior
PSYC 340 Cognition
Two courses at or above the 400-level ................................ 6
However, PSYC 413, PSYC 414, PSYC 466, and PSYC 468 may not be used to fulfill this requirement.
Three credits of any Psychology course ................................ 3
(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

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

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.
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: .................................... 3
PSYC 301 Personality
PSYC 303 Introduction to Social Psychology
PSYC 325 Child Psychology
PSYC 334 Abnormal Psychology
One of the following four courses: .................................... 3
PSYC 350 Developmental Psychology
PSYC 370 Research in Personality
PSYC 380 Psychopathology
PSYC 390 Social Psychology
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: .................................... 6
PSYC 310 Sensation and Perception
PSYC 312 Learning and Motivation
PSYC 314 Brain and Behavior
PSYC 340 Cognition
Two courses at or above the 400-level ................................ 6
However, PSYC 466 and 468 may not be used to fulfill this requirement.
Three credits of any Psychology course ................................ 3
(except PSYC 301, 303, 325 and 334)
Twenty-four credits in the social sciences with at least three credits in each of the following departments: .................................. 24
Anthropology course
Economics course
Geography course
History course
Political Science course
Sociology course
Six additional credits selected from the social science departments listed above .................................. 6
EDUC 413 Educational Psychology – Social Aspects .................. 3
EDUC 414 Educational Psychology – Cognitive Aspects .......... 3
EDUC 419 Diversity in the Classroom .................................. 3
HIST 491 Planning a Course of Instruction ............................ 3
HIST 493 Seminar: Problems in Teaching History and Social Sciences .................................. 3
EDUC 420 Reading in the Content Areas ................................ 1
EDUC 400 Student Teaching ............................................. 9
EDUC 430 Classroom Management ....................................... 1
A grade of C- or better is required in all required PSYC, EDUC, and HIST 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 ................................. 124

143
HONORS BACHELOR OF ARTS: PSYCHOLOGY OR PSYCHOLOGY EDUCATION
The recipient must complete:
1. All requirements for the Bachelor of Arts in Psychology or in Psychology Education.
2. All the University's generic requirements for the Honors Degree (see page 43 of this catalog).

REQUIREMENTS FOR A MINOR IN PSYCHOLOGY
A minor in psychology requires 18 credits including PSYC 201; PSYC 309; one course chosen from PSYC 301, 303, 325, or 334; one course chosen from PSYC 310, 312, 314, or 340; one course chosen from PSYC 350, 370, 380, or 390; AND any three credits in psychology (with the following restrictions):
- If PSYC 301 is taken, PSYC 370 may not be counted for the minor.
- If PSYC 303 is taken, PSYC 390 may not be counted for the minor.
- If PSYC 325 is taken, PSYC 350 may not be counted for the minor.
- If PSYC 334 is taken, PSYC 380 may not be counted for the minor.

RELIGIOUS STUDIES
The Religious Studies undergraduate minor is described as "interdisciplinary" because it involves work in three or more different departments. The general requirements include 15 credits from a list of approved courses. These must include PHIL 204 (World Religions) and at least two courses at the 300-level or higher in any of the three departments listed. For enrollment forms, course substitutions or exemptions, or a list of the approved courses, contact Professor Alan Fox, Department of Philosophy.
- Telephone: (302) 831-8077
- E-mail: AFOX@udel.edu
- http://www.udel.edu/Philosophy/RelStud/

SOCIOLGY AND CRIMINAL JUSTICE
The Department of Sociology and Criminal Justice administers separate undergraduate programs in Sociology and in Criminal Justice.
- Telephone: (302) 831-2581
- http://www.udel.edu/soc/

SOCIOLOGY
The sociology major is designed to provide students with a broad understanding of the dynamics of society and social relations. The curriculum include core courses in social theory and research methods and emphasizes flexibility by allowing students to design a program that fits their particular needs and objectives. There are also concentrations in Data Analysis, Health Services, Law and Society, and Social Welfare. Students changing to the Sociology major from other programs at UD must have a G.P.A. of 2.0 or better.

Field Experience: One important feature of the sociology major program is a field experience in the data analysis, health services, law and society, and social welfare 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 Field Experience Program
- Provides professional training within selected areas of the student's choice.
- Offers future job-related experience with academic supervision and for academic credit.
- Includes certification of these concentrations by the department, which may be beneficial in obtaining employment.
- Offers increased flexibility for the student by allowing choices among various focused, directed concentrations.

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CURRICULUM CREDITS

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

SOCI 201 Introduction to Sociology 
SOCI 301 Introduction to Sociological Research 
SOCI 312 Theories of Society 

Seven Sociology courses with 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).

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: LAW AND SOCIETY

**CURRICULUM**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAJOR REQUIREMENTS</strong></td>
<td></td>
</tr>
<tr>
<td>SOCI 201 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 301 Introduction of Sociological Research</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 312 Theories of Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 315 Sociology of Law</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 456 Lawyers and Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 442 Law and Society Practicum and Seminar</td>
<td>4</td>
</tr>
<tr>
<td>Eleven additional credits of related work are required</td>
<td>11</td>
</tr>
</tbody>
</table>

This course is required but does not count as part of the thirty-one Sociology credits for the major.

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, 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 SERVICES

**CURRICULUM**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAJOR REQUIREMENTS</strong></td>
<td></td>
</tr>
<tr>
<td>SOCI 201 Introduction to Sociology</td>
<td>3</td>
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<tr>
<td>SOCI 301 Introduction of Sociological Research</td>
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<tr>
<td>SOCI 312 Theories of Society</td>
<td>3</td>
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<tr>
<td>SOCI 315 Sociology of Law</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 456 Lawyers and Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 442 Law and Society Practicum and Seminar</td>
<td>4</td>
</tr>
<tr>
<td>Any five additional Sociology courses with no more than 12 credits</td>
<td>15</td>
</tr>
</tbody>
</table>

This course is required but does not count as part of the thirty-one Sociology credits for the major.

Any five additional Sociology courses with 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).

Suggested courses for the study of family/gender include:

- SOCI 202 Social Deviance
- SOCI 213 Men and Women in American Society
- SOCI 303 Juvenile Delinquency
- SOCI 308 The Family
- SOCI 330 Population, Law and Society
- SOCI 407 Sociology of Sex and Gender

Suggested courses in the organization/work area:

- SOCI 327 Sociology of Organizations
- SOCI 330 Population, Law and Society
- SOCI 335 Computers, Ethics and Society
- SOCI 428 Corporate Crime
- SOCI 450 Political Sociology

Twelve credits from the following courses are recommended:

- CRJU 320 Introduction to Criminal Law
- CRJU 347 The Jury: Guilty or Not Guilty
- CRJU 357 Seminar on the Police
- CRJU 425 Criminal Law and Social Policy
- CRJU 4xx Contemporary Debates
- POSC 402 Civil Liberties I
- POSC 404 The Judicial Process
- POSC 405 Constitutional Law of the U.S

**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 EDUCATION**

**CURRICULUM**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAJOR REQUIREMENTS</strong></td>
<td></td>
</tr>
<tr>
<td>SOCI 201 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 301 Introduction of Sociological Research</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 312 Theories of Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 315 Sociology of Law</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 456 Lawyers and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Any five Sociology courses, with 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).

Twenty-four credits in the social sciences with at least three credits in each of the following departments:

- Anthropology course
- Economics course
## MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 201</td>
<td>Problems of Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 202</td>
<td>Problems of Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 203</td>
<td>Problems of Corrections</td>
<td>3</td>
</tr>
<tr>
<td>HIST 493</td>
<td>Planning a Course of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>HIST 493</td>
<td>Seminar: Problems in Teaching History and Social</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201</td>
<td>General Psychology</td>
<td>3</td>
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</table>

### REQUIREMENTS FOR A MINOR IN SOCIOLOGY

The minor in sociology requires SOCI 201 plus 15 credits in sociology, with at least 9 credits at or above the 300-level. SOCI 301 or 312 is required or an equivalent course in another social science discipline, such as PSYC 309, 405, ECON 422, 426, STAT 205, POSC 302, 434 or 435.

### CRIMINAL JUSTICE

The Criminal Justice major program is structured around a core of criminal justice courses on such topics as law enforcement, the judicial process, juvenile justice, corrections, and the criminal law. The Criminal Justice curriculum includes courses in political science, psychology, and at least one foreign language, as well as in sociology.

Students may become criminal justice majors in one of two ways. First, any incoming freshman or transfer student may choose criminal justice as a major. These students are expected to demonstrate both the ability and the commitment to perform well in all of their course work. Those who do not meet with their advisor to discuss ways to improve their study skills and/or the possibility of selecting another major. Second, matriculated students who have already declared another major or who presently are undeclared may transfer into the Criminal Justice Program after they have completed a minimum of 30 credit hours and if their overall cumulative average at the University of Delaware is at least 2.3.

**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 social work or related fields).

## DEGREE: BACHELOR OF ARTS

### MAJOR: CRIMINAL JUSTICE

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAJOR REQUIREMENTS</td>
<td></td>
</tr>
<tr>
<td>CRJU 110 Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 201 Problems of Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 202 Problems of Criminal Justice</td>
<td>3</td>
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<tr>
<td>CRJU 203 Problems of Corrections</td>
<td>3</td>
</tr>
</tbody>
</table>

### DEGREE: BACHELOR OF ARTS

<table>
<thead>
<tr>
<th>MAJOR: THEATRE PRODUCTION</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRICULUM</td>
<td></td>
</tr>
<tr>
<td>MAJOR REQUIREMENTS</td>
<td></td>
</tr>
<tr>
<td>THEA 102 Introduction to Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEA 104 Introduction to Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEA 200 Introduction to Theatre Production</td>
<td>3</td>
</tr>
<tr>
<td>THEA 202 Introduction to Theatre Design</td>
<td>3</td>
</tr>
<tr>
<td>THEA 203 Introduction to Costuming for the Stage</td>
<td>3</td>
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<tr>
<td>THEA 407 Theatre Practicum for Majors</td>
<td>3</td>
</tr>
</tbody>
</table>

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<tr>
<th>ELECTIVES</th>
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<tr>
<td>After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.</td>
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### CREDITS TO TOTAL A MINIMUM OF: 124

### STATISTICS

(See Food and Resource Economics in College of Agriculture and Natural Resources)

### 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 conservatory).

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 one of the amateur theatre groups on campus: E-S, Harrington Theatre Arts, or Khuluman Theatre Troupe.

Telephone: (302) 831-2201

http://www.udel.edu/theatre/
Womens Studies Interdisciplinary Program is designed to foster in undergraduate students a knowledge of the rich heritage, challenges, and concerns of women. The program offers a B.A. degree in Womens Studies, with an Honors Degree option and a minor in Womens Studies. In addition to being a unique field of study with its own philosophies, methodologies, and materials, both the major and the minor in Womens Studies provide vehicles for reexamining the traditional scholarly disciplines in order to identify and correct misperceptions of women's place in human history. In the process, Womens Studies challenges disciplinary boundaries, encourages research on women within existing disciplines, and requires an understanding of the interplay among gender, culture, race, sexual orientation and class in human experience. This program offers introductory core courses, upper-division courses, seminars, and colloquia. An internship is also available that provides students an opportunity to integrate what they have learned in the classroom with the practical competencies that can only be gained from actual experience. Both the courses and the internship introduce and analyze areas of scholarship and knowledge that have largely been excluded from conventional disciplines.

Interdepartmental majors and double majors are also options. No minimum grade point average is required to begin, but students must pass the major with a minimum grade of C- in each course. After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. Additional credits in the major may be taken, not to exceed a total of 45 credits in the major.

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR MINOR IN THEATRE

THEA 104 - Introduction to Theatre 3
THEA 226 - Fundamentals of Acting 3
Theatre Electives at the 200-level or ENGL 208 6
Theatre Electives at the 300-level, 400-level, or ENGL 324 6

TOTAL CREDITS 18

WOMENS STUDIES

The Women's Studies Interdisciplinary Program is designed to foster in undergraduate students a knowledge of the rich heritage, challenges, and concerns of women. The program offers a Bachelor of Arts degree in Women's Studies, with an Honors Degree option and a minor in Women's Studies. 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 reexamining the traditional scholarly disciplines in order to identify and correct misperceptions of women's place in human history. In the process, Women's Studies challenges disciplinary boundaries, encourages research on women within existing disciplines, and requires an understanding of the interplay among gender, culture, race, sexual orientation and class in human experience.

This program offers introductory core courses, upper-division courses, seminars, and colloquia. An internship is also available that provides students an opportunity to integrate what they have learned in the classroom with the practical competencies that can only be gained from actual experience. Both the courses and the internship introduce and analyze areas of scholarship and knowledge that have largely been excluded from conventional disciplines.

Interdepartmental majors and double majors are also options. No minimum grade point average is required to begin, but students must pass the major with a minimum grade of C- in each course. After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. Additional credits in the major may be taken, not to exceed a total of 45 credits in the major.

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES

Six credits in Women's Studies courses or courses cross-listed with 6
social science departments chosen from the following: 6

WOMS/SOCI 206 Women and Work
WOMS/SOCI 211 Men, Conflict, and Social Change
WOMS/SOCI 213 Men and Women in American Society
WOMS/ENGL 222 Language and Gender
WOMS 240 Women and Violence
WOMS/PHIL 315 Third World Women in Politics
WOMS/PHIL 323 Introduction to Women and Politics
WOMS/PSYC 333 Psychology of Women
WOMS/CRIM 350 Gender and Criminal Justice
WOMS/ANTH 363 Women in Cross-cultural Perspective
WOMS/ANTH 401 Foundations of Women's Literary History
WOMS/ANTH 407 Sociology of Sex and Gender
WOMS/ANTH 413 Problems in American Government
WOMS/ANTH 415 Race, Class, and Gender
WOMS/ENGL 430 Teaching Family Life
WOMS/PHIL 436 Politics and Literature
WOMS/SOCI/GEOG/FST 460 Women in International Development
WOMS/SOCI 607 Sociology of Sex and Gender

Three credits in WOMS science-related courses chosen from the following: 3

WOMS/SCIC 233 Women, Biology, and Medicine
WOMS/ANTH 305 The Evolution of Human Sex Roles and Reproduction
WOMS/SCIC/PHIL 389 Topics: Women and Health Issues

Nine additional credits in courses in Women's Studies or cross-listed 9
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

HONORS BACHELOR OF ARTS: WOMEN'S STUDIES

The recipient must complete:
1. All requirements for the Bachelor of Arts degree in Women's Studies.
2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 43 of this catalog).

The Honors credits required in the major must be in courses in Women's Studies or courses cross-listed with Women's Studies.

REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES

A minimum of 18 credit hours is required, which must include the following:

WOMS 201 Introduction to Women's Studies 3
WOMS/PHIL 216 Introduction to Feminist Theory 3
Six credits in Women's Studies courses or courses cross-listed with 6
History and/or humanities departments chosen from the following list (only sections cross-listed with WOMS):
WOMS/PHIL 202 Contemporary Moral Problems
WOMS/PHIL 210 Women and Religion
WOMS/ENGL 314 Literature and Gender
WOMS 242/ARTH 240 Women and Art
WOMS/EDST/HIST 290 History of Women and Education
WOMS/ARSC 293 Honors Short Course
WOMS/HIST 300 Women in American History

WOMS/MUSC 302 Women in Music: Alternate Survey
WOMS/ARTH 311 Renaissance Women, Society and Art
WOMS/ENGL 318 Studies in Film
WOMS/PHIL 320 Varying Authors and Genres
WOMS/PHIL 322 Topics: Classical Literature in Translation
WOMS/PHIL 324 Topics: French Literature in Translation
WOMS/PHIL 325 Topics: German Literature in Translation
WOMS/PHIL 326 Topics: Hispanic Literature in Translation
WOMS/PHIL 328 Topics: Japanese Literature in Translation
WOMS/PHIL 330 Varying Authors, Themes, and Movements
WOMS/PHIL 338 Topics in Philosophy and Gender
WOMS/ENGL 353 Twentieth Century British Literature
WOMS/ENGL 380 Women Writers
WOMS/ENGL 381 Women in Literature
WOMS/ENGL 382 Studies in Multicultural Literature in English
WOMS/HIST 409 Varieties of Modern Feminism
WOMS/ENGL 465 Women in Literature, Genres, and Movements
WOMS/HIST 473 Seminar in Modern European History
WOMS/ENGL 480 Seminar

Six credits in Women's Studies courses or courses cross-listed with 6
social science departments chosen from the following list:

WOMS/SOCI 206 Women and Work
WOMS/SOCI 211 Men, Conflict, and Social Change
WOMS/SOCI 213 Men and Women in American Society
WOMS/ENGL 222 Language and Gender
WOMS 240 Women and Violence
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WOMS/PHIL 323 Introduction to Women and Politics
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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