COLLEGE OF ARTS AND SCIENCES

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The College of Arts and Sciences 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 Sciences 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 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 Sciences, please visit the college web site at www.art-sci.udel.edu

ADVISEMENT

Students who have declared majors will be assigned an advisor who is a faculty member in the appropriate department. University Studies students are advised by the professional staff of the University Advisement Center located at 102 Elliott Hall. All freshman students who have earned less than 28 credit hours are required to seek advisement 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 assist 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. Several departments, e.g., English and History, have a number of internal options or specializations. To round out the departmental major, students may be required to take a designated number of credits of related work determined in consultation with a faculty advisor. The faculty of the college have ruled that for the Bachelor of Arts degree, a maximum of 45 credits with the same departmental prefix may be applied to the total number of credits required for the degree. A cross-listed course will be considered a part of the 45 credit total, regardless of which prefix a student used to register for the course.

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

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

INTERDEPARTMENTAL MAJOR. Students whose goals and interests heavily involve materials from two departments but do not extend to all aspects of each subject area may work out and submit for the approval of both departments and the dean of the college an interdepartmental proposal. More detailed instructions on the Interdepartmental Major are available in the Advisement Center and Dean’s Office, but basically this major involves a minimum of 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 Sciences. The interdepartmental major always leads to the Bachelor of Arts degree.

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 Sciences (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. A grade of C- is required in all major 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.

CREDITS

UNIVERSITY REQUIREMENTS

ENG 110 Critical Reading and Writing
(minimum grade C) 3

ENG 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 Sciences with 45 credits or more must complete this requirement within two semesters.

MULTICULTURAL COURSE

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65) .

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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 91-92)

Mathematics:

(one of the following four options with a minimum grade of D-)

OPTION ONE:

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

OPTION TWO:

MATH 114
or

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

MATH 115
or

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

OPTION THREE:

Successful completion of any mathematics course at or above the 200-level except MATH 201, MATH 202, MATH 205, MATH 250, MATH 251, MATH 252, MATH 253, MATH 266, MATH 300 or MATH 450

OPTION FOUR:

Successful performance on a proficiency test in mathematics administered by the Department of Mathematical Sciences. (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 Sciences with 45 credits or more must complete this requirement within two semesters

Foreign Language:

(with a minimum grade of D-)

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 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 through the Foreign Languages and Literatures Department (see page 125)

COLLEGE BREADTH REQUIREMENTS

(MINIMUM GRADE OF D-)

These requirements apply to all College of Arts and Sciences 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 142 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

If the grade earned is sufficient, 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 93-98.

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 Academic 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. 62-65) ........................................... 3

SKILL REQUIREMENTS

Mathematics (one of the following) ............................................. 0-4

MATH 113
or

MATH 114
or

MATH 115
or

Successful completion of any mathematics course at or above the 200-level except MATH 201, MATH 202, MATH 205, MATH 250, MATH 251, MATH 252, MATH 253, MATH 266, MATH 300 or MATH 450
or Proficiency Test

Foreign Language ............................................................ 0-4

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

**Multicultural Course** (see p. 62-65) ................................................. 3

**SKILL REQUIREMENTS**

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

**Foreign Language** ........................................................................ 0-4
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
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CREDITS TO TOTAL A MINIMUM OF ........................................ 60

**DEAN’S SCHOLAR PROGRAM**

The Dean’s Scholar Program exists to serve the needs of students whose clearly defined educational goals cannot be effectively achieved by pursuing the standard curriculum for all existing majors, minors, and interdepartmental majors sponsored by the University. Driven by an overarching passion or curiosity that transcends typical disciplinary bounds and curricula, a Dean’s Scholar’s intellectual interests may lead to broad interdisciplinary explorations of an issue or to more intense, in-depth studies in a single field at a level akin to graduate work. In consultation with faculty advisors and the Associate or Assistant Dean of their college, Dean’s Scholars design an imaginative and rigorous individual plan of study to meet the total credit hours required for graduation. Dean’s Scholars in Arts and Sciences and in Agriculture and Natural Resources may qualify for Honors Degrees. Contact the Assistant/Associate Dean in the college or go to: www.udel.edu/deansscholar/ for more information and the application.

**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 Sciences and a Bachelor’s degree in the appropriate engineering field. For complete details on these programs, see the Arts and Sciences–Engineering Curricula section, p. 189.

**TEACHER EDUCATION PROGRAMS**

The College of Arts and Sciences 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 GPA for enrollment in EDUC 400, Student Teaching, a course required for the degree. The appropriate teacher education program advisor (see list on p. 205) should be consulted for the exact GPA 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 Advisement 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 www.udel.edu/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 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: 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**

This unique premedical program is jointly sponsored by the University of Delaware and the Jefferson Medical College in Philadelphia and serves to prepare students to deal with society’s changing health care needs. Providing 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 practical clinical settings are unique aspects of the program. Medical Scholars work toward a Bachelor of Arts in Liberal Studies degree and receive 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 the faculty coordinator at (302) 831-8195 or consult the Medical Scholars web site at: 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 Sciences Second Writing Course apply. Only a limited number of courses, when transferred from another institution, will satisfy the second writing requirement.

**AMERICAN MATERIAL CULTURE STUDIES (AMCS)**

AMCS 402 American Material Culture Research Seminar

**ANTHROPOLOGY (ANTH)**

ANTH 486 Tutorial in Social and Cultural Anthropology
ANTH 487 Tutorial in Archaeology
ANTH 488 Tutorial in Physical Anthropology

**ART (ART)**

ART 315 Issues in Contemporary Art

**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 SCIENCES (ARSC)**

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

**BIOLOGY (BISC)**

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

**BLACK AMERICAN STUDIES (BAMS)**

BAMS 415 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 368 Literature and Science
(cross-listed with ENGL 368)
CSCC 444 Medical Ethics
(cross-listed with PHIL 444)
CSCC 498 Topics in Biology
(cross-listed with BISC 498)
ART HISTORY (ARTH)
ARTH 101 Visual Culture
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 307 Seurat to Matisse: Art in France
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 218 and WOMS 208)
ENGL 209 Introduction to the Novel
(cross-listed with CMLT 219 and WOMS 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 Folktales
ENGL 320 The Bible as Literature
ENGL 324 Shakespeare
ENGL 348 Contemporary Jewish-American Literature
(cross-listed with JWST 348)
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 321 Anti-heroes in Chinese Literature
FLIT 322 Topics: Classical Literature in Translation
(cross-listed with CMLT 322)
FLIT 324 Topics: French Literature in Translation
(cross-listed with WOMS 324)

COURSES APPROVED FOR BREADTH REQUIREMENTS

GROUP A: ANALYSIS AND APPRECIATION OF THE CREATIVE ARTS AND HUMANITIES

ARTS AND SCIENCES (ARSC)
ARSC 390 New Comedy: A Funny Thing Happened On The Way to the Altar (Honors Colloquium)

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 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 381 Visions of Native Americans
ANTH 457 Survey of African Art
(cross-listed with ARTH 457)

ART (ART)
ART 315 Issues in Contemporary Art
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ARTS AND SCIENCES UNDERGRADUATE

HIST 372 Popular Culture in Urban Japan
HIST 373 Modern Ireland: 1534-Present
HIST 374 History of England to 1715
HIST 375 History of England: 1715 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 382 History of Western Medicine (cross-listed with CSCC 382)
HIST 389 The American West
HIST 390 American Indians: The Southwest
HIST 391 History of World War II: Asia and the Pacific
HIST 393 History of Modern Vietnam
HIST 397 History of South Africa
HIST 430 Seminar: Twentieth Century Latin American Revolutions
HIST 439 Women and Revolution in Africa (cross-listed with WOMS 439)
HIST 474 Seminar in English History
HIST 477 Seminar: Latin American History
HIST 479 Seminar in Asian History

ITALIAN (ITAL)
ITAL 310 Survey of Italian Literature (to be taught in Italian)
ITAL 311 Survey of Italian Literature (to be taught in Italian)
ITAL 325 Italian Civilization and Culture

JEWISH STUDIES (JWST)
JWST 349 Introduction to Jewish Sources (cross-listed with ENGL 439)

MATHEMATICS (MATH)
MATH 308 History of Mathematical Ideas

MUSIC (MUSC)
MUSC 107 History of Rock
MUSC 205 Music of the Non-Western World
MUSC 206 Music of China, Korea and Japan
MUSC 207 History of Jazz
MUSC 210 Music of Britain
MUSC 212 History of Liturgy and Hymns
MUSC 302 Women in Music: An Alternate Survey (cross-listed with WOMS 302)
MUSC 311 Music History: to 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 301 Ancient Philosophy
PHIL 303 Modern Philosophy
PHIL 309 Indian Religion and Philosophy
PHIL 310 Chinese Religion and Philosophy
PHIL 311 Early Medieval Philosophy
PHIL 312 Late Medieval Philosophy

POLITICAL SCIENCE (POSC)
POSC 211 Politics in Developing Nations
POSC 311 Politics of Developing Nations
POSC 387 American Political Thought

PSYCHOLOGY (PSYC)
PSYC 415 History and Systems of Psychology

RUSSIAN (RUSS)
RUSS 310 Introduction to Russian Literature I (to be taught in Russian)
RUSS 312 Introduction to Russian Literature II (to be taught in Russian)
RUSS 325 Russian Civilization and Culture (to be taught in Russian)

SPANISH (SPAN)
SPAN 208 Contemporary Spain I
SPAN 301 Survey of Spanish Literature (to be taught in Spanish)
SPAN 302 Survey of Spanish Literature
SPAN 303 Survey of Spanish-American Literature (to be taught in Spanish)
SPAN 304 Survey of Spanish-American Literature (to be taught in Spanish)
SPAN 325 Spanish Civilization and Culture (to be taught in Spanish)
SPAN 326 Latin American Civilization and Culture (to be taught in Spanish)
SPAN 370 Studies in Spanish Literature Taught in Spain

THEATRE (THEA)
THEA 341 Theatre/Drama: Classic/Medieval (cross-listed with MUSC 341)
THEA 342 Theatre/Drama: Renaissance to 1700 (cross-listed with MUSC 342)
THEA 343 Theatre/Drama: 1700 to 1900 (cross-listed with MUSC 343)
THEA 344 Theatre/Drama: 1900 to Present (cross-listed with MUSC 344)
THEA 345 History of Theatre: American Musical Theatre (cross-listed with MUSC 345)

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 330 Varying Authors, Themes, and Movements (cross-listed with MUSC 330, CSCC 330 and FLIT 330)
WOMS 439 Women and Revolution in Africa (cross-listed with HIST 439)

GROUP C: EMPIRICALLY-BASED STUDY OF HUMAN BEINGS AND THEIR ENVIRONMENT

ANTHROPOLOGY (ANTH)
ANTH 103 Introduction to Prehistoric Archaeology (duplicate credit with ANTH 104 in Group D)
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 337 South American Indians
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 SCMI 204)
BAMS 205 Contemporary Afro-American Issues
BAMS 215 Race in Society (cross-listed with SOCI 215)
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 Verbal Communication
COMM 330 Communication and Interpersonal Behavior

CONSUMER STUDIES (CNST)
CNST 200 Consumer Economics
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<td>Problems of Law Enforcement</td>
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<td>Introduction to Archaeology and Biological Anthropology</td>
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<td>BISC 110</td>
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**CHEMISTRY (CHEM)**

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<td>General Chemistry (duplicate credit with CHEM 103, 105, 111)</td>
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**COGNITIVE SCIENCE (CGSC)**

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**COMPUTER AND INFORMATION SCIENCES (CISC)**

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<td>CISC 103</td>
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<td>ENWC 205</td>
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**GEOGRAPHY (GEOG)**

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<td>Geology of Delaware and its Neighbors</td>
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**MARINE STUDIES (MAST)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAST 200</td>
<td>The Oceans</td>
</tr>
</tbody>
</table>

**MATHEMATICAL SCIENCES (MATH)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 201</td>
<td>Introduction to Statistics I (duplicate credit with STAT 205)</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Statistical Methods (duplicate credit with STAT 201)</td>
</tr>
<tr>
<td>MATH 210</td>
<td>Discrete Mathematics I (duplicate credit with MATH 230)</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Calculus I (duplicate credit with MATH 241)</td>
</tr>
<tr>
<td>MATH 230</td>
<td>Finite Mathematics with Applications (duplicate credit with MATH 210)</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Analytic Geometry and Calculus A (duplicate credit with MATH 221)</td>
</tr>
</tbody>
</table>

**MUSEUM STUDIES (MSST)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSST 205</td>
<td>Science and the Detection of Art Forgeries (cross-listed with ARTH 205)</td>
</tr>
</tbody>
</table>

**NUTRITION AND DIETETICS (NTDT)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTDT 200</td>
<td>Nutrition Concepts</td>
</tr>
</tbody>
</table>

**PHILOSOPHY (PHIL)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 205</td>
<td>Logic (PHIL 351 alternate) (duplicate credit if taken after PHIL 351)</td>
</tr>
<tr>
<td>PHIL 207</td>
<td>Inductive Logic and Scientific Method</td>
</tr>
<tr>
<td>PHIL 211</td>
<td>Basic Decision Theory</td>
</tr>
</tbody>
</table>

**PHYSICS (PHYS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 104</td>
<td>Elementary Physics (duplicate credit with PHYS 201, PHYS 207, and SCEN 101)</td>
</tr>
<tr>
<td>PHYS 133*</td>
<td>Introduction to Astronomy</td>
</tr>
<tr>
<td>PHYS 140</td>
<td>Great Concepts of Physics</td>
</tr>
<tr>
<td>PHYS 141</td>
<td>Light, Lasers, Cameras, Perception</td>
</tr>
<tr>
<td>PHYS 143</td>
<td>Energy, Technology, and Society</td>
</tr>
<tr>
<td>PHYS 144</td>
<td>Concepts of the Universe (duplicate credit if taken after PHYS 133 or 134)</td>
</tr>
<tr>
<td>PHYS 145</td>
<td>Black Holes and Cosmic Evolution</td>
</tr>
<tr>
<td>PHYS 146</td>
<td>Quarks, Gluons, and the Big Bang</td>
</tr>
<tr>
<td>PHYS 147</td>
<td>Atoms for Everyone</td>
</tr>
<tr>
<td>PHYS 199</td>
<td>Exploring Physics Concepts: I</td>
</tr>
<tr>
<td>PHYS 201*</td>
<td>Introductory Physics I (duplicate credit with PHYS 104, 207, and SCEN 101)</td>
</tr>
<tr>
<td>PHYS 202</td>
<td>Introductory Physics II (duplicate credit with PHYS 208 and SCEN 102)</td>
</tr>
<tr>
<td>PHYS 207*</td>
<td>Fundamentals of Physics I (duplicate credit with PHYS 104, 201, and SCEN 101)</td>
</tr>
<tr>
<td>PHYS 208*</td>
<td>Fundamentals of Physics II (duplicate credit with PHYS 202 and SCEN 102)</td>
</tr>
</tbody>
</table>

**PLANT SCIENCE (PLSC)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 101*</td>
<td>Botany I</td>
</tr>
<tr>
<td>PLSC 140</td>
<td>People and Plants: Feast or Famine</td>
</tr>
<tr>
<td>PLSC 204</td>
<td>Introduction to Soil Science</td>
</tr>
</tbody>
</table>

**PSYCHOLOGY (PSYC)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 314</td>
<td>Brain and Behavior (cross-listed with CGSC 314)</td>
</tr>
<tr>
<td>PSYC 316</td>
<td>Biological Bases of Behavior</td>
</tr>
<tr>
<td>PSYC 320</td>
<td>Neuroscience</td>
</tr>
</tbody>
</table>

**SCIENCE (SCEN)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCEN 101*</td>
<td>Physical Science (duplicate credit with PHYS 104, 201, and 207)</td>
</tr>
<tr>
<td>SCEN 102*</td>
<td>Physical Science (duplicate credit with PHYS 202 and 208)</td>
</tr>
<tr>
<td>SCEN 103</td>
<td>Concepts of Science and Technology</td>
</tr>
</tbody>
</table>

**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 Academic Advisement Center, Room 102, Elliott Hall, 831-1281, for the most current information.
African Studies

Telephone: 302-831-1858
Web: www.udel.edu/AreaStudies/africa.html

The African Studies Minor has been designed to provide an intellectually coherent program of study based upon regularly offered courses in several different fields in the humanities and social sciences. This program is intended to enhance a student’s undergraduate major.

Minor in African Studies

The minor requires eighteen credit hours drawn from the courses below. Students must take six of the following courses selected from at least four different departments. In addition, in consultation with the program director, students may count toward the minor courses taken during the UD winter session programs in Ghana and South Africa.

ANTH 333 People of Africa
ANTH/ARTH 457 Survey of African Art
ARTH 204 Art, Power and Architecture in Africa
ARTH 206 Introduction to Art and Architecture in Africa
ARTH 420 Seminar in African Art
BAMS/HIST 331 History of the Caribbean I
BAMS/HIST 332 History of the Caribbean II
ENGL 382 The African Novel
FREN 458 African Francophone Literature and Cinema
FREN 457 The Francophone World
FREN 458 Aspects of Francophone Literature
FREN 459 Negritude, Antillean, Creole
HIST/HAMS 134 History of Africa
HIST 330 Peasants and Revolution in Africa
HIST 394 Africa Since 1960
HIST 395 Pan Africanism
HIST 397 History of South Africa
HIST/WOMS 439 Women and Revolution in Africa
HIST 440 Seminar in Africa Under Colonial Rule
HIST 475 The End of the French Empire
NTDT 452 Issues in International Nutrition
POSC 433 African Politics
POSC/BAMS 439 Southern African Politics

Substitutions for the above courses may be made with permission of the program director. Independent studies and special problems courses may also count toward the minor with the director’s approval.

American Material Culture Studies

Telephone: (302) 831-1535
http://materialculture.udel.edu

The College of Arts and Sciences 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, the intimate environments of the home to the historical development of regional landscapes. Particular attention is paid to the international cultural and social 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 Museums, Center for Historic Architecture and Design, the Paul R. Jones Collection, and the Museum Studies Program. The requirements for the minor include an internship and original research project.

Minor in American Material Culture Studies

The minor in American Material Culture Studies requires 18 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 topic areas in American material culture studies.

All three additional courses must be selected from outside the requirements of the student’s majors and outside his or her other minors. All courses included within the minor must be completed with a grade of C- or better.

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH/AMCS/ Introduction to Material Culture Studies</td>
<td>3</td>
</tr>
<tr>
<td>HIST 216</td>
<td></td>
</tr>
<tr>
<td>AMCS 402 Research and Writing Seminar</td>
<td>3</td>
</tr>
<tr>
<td>(prerequisite: AMCS 216)</td>
<td></td>
</tr>
<tr>
<td>AMCS/MSST 464 Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Area Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH/AMCS/ Introduction to Material Culture Studies</td>
<td>3</td>
</tr>
<tr>
<td>HIST 216</td>
<td></td>
</tr>
<tr>
<td>AMCS 402 Research and Writing Seminar</td>
<td>3</td>
</tr>
<tr>
<td>(prerequisite: AMCS 216)</td>
<td></td>
</tr>
<tr>
<td>AMCS/MSST 464 Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

An additional three approved courses (9 credits) to be chosen from recommended offerings in American material culture studies by the departments and programs below. Two of these courses must be at the 200-level or above. The third course must be at the 300-level or above. Courses must be selected from outside the student’s major and represent at least two different departments/programs from the following: Anthropology, Art Conservation, Art History, Black American Studies, Consumer Studies, English, Geography, History, Museum Studies, Sociology, Women’s Studies.

Anthropology

Telephone: (302) 831-2802
www.udel.edu/anthro

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 retracing their many different forms of cultural development and adaptation.

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

Degree: Bachelor of Arts
Major: Anthropology

Curriculum

See page 88 for University and College requirements.

Major Requirements

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

One additional Anthropology course 3

In addition to the two 400-level tutorial courses, all students must take a minimum of six credits of ANTH at or above the 200-level and a minimum of twelve credits of ANTH at or above the 300-level.

Grade of C- or better required in all major 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: ANTHROPOLOGY EDUCATION

See page 88 for University and College requirements

MAJOR REQUIREMENTS

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

One additional Anthropology 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.

Economics course 3
Geography course 3
History course 3
Political Science course 3
Sociology course 3
PSY 100 General Psychology 3
Six additional credits selected from the departments listed above 6
EDUC 413 Adolescent Development and Educational Psychology 4
EDUC 414 Teaching Exceptional Adolescents 3
EDUC 419 Diversity in Secondary Education 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 430 Classroom Management 3

Grade of C- or better required in major, major related, and professional studies courses.

To be eligible to student teach, Anthropology Education majors must have a GPA of 3.0 in their major and an overall GPA of 2.75. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students must consult with the teacher education program coordinator (see list on p. 205) to obtain the student teaching application and other information concerning student teaching policies

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

HONORS BACHELOR OF ARTS:
ANTHROPOLOGY OR ANTHROPOLOGY EDUCATION

All Honors Degree Candidates must complete the following:
1. All requirements for the B.A. in Anthropology or Anthropology Education.
2. All of the University's generic requirements for the Honors Baccalaureate degree [see p. 45 of this catalog]

INTERDEPARTMENTAL MAJORS

An interdepartmental major, for students having interests in two areas, requires 21 credits each in anthropology and in one other department as well as 9 credits of related work. The following areas are required by the Anthropology Department:

- 3 Credits in biological anthropology
- 3 Credits in archaeology

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.

MINOR IN ANTHROPOLOGY

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

ART CONSERVATION

Telephone: (302) 831-3489
http://www.udel.edu/artcons/

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. Conservation demands a broad knowledge of many subjects in the sciences and humanities, the astuteness to make sound judgments, the development of excellent manual skills, and the temperament and ability to carry out precise work.

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

CURRICULUM

See page 88 for University and College requirements

MAJOR REQUIREMENTS ........................... [56 CREDITS]
ARTC 301 Care and Preservation of Cultural Property I .................. 3
ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

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

DEGREE: BACHELOR OF ARTS
MAJOR: ART CONSERVATION
CONCENTRATION: PREGRADUATE STUDY

CURRICULUM

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

ARTC 301 Care and Preservation of Cultural Property II 3
ARTC 302 Care and Preservation of Cultural Property I 3
ARTC 464 Conservation Internship (two semesters) 6 (Junior and/or Senior status only)
ARTC 485 Color Mixing and Matching 3

One of the following
ARTC 488 Studio in the Materials and Techniques of Painting I
ARTC 489 Studio in the Materials and Techniques of Painting II

One of the following
ARTC 480 Studio in the Materials and Techniques of Drawing in the West
ARTC 490 Studio in the Materials and Techniques of Printmaking I

MSST 403 History, Philosophy, Functions and Future of Museums 3
MSST 466 Independent Study: Museum Studies Internship 3

One of the following
ART 110 Foundation Drawing
ART 130 Drawing I: Tools and Techniques
ART 138 Elementary Drawing and Painting I
ART 280 Beginning Photography

One of the following
ART 250 Beginning Sculpture
ART 290 Beginning Ceramics
CHEM 101 General Chemistry 4
CHEM 102 General Chemistry 4

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

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 and Crafts: Native South America
ANTH 379 Historical Archaeology of the Eastern United States
ARTH 451 Myth and Culture
ARTH 457 Survey of African Art
ARTC 444 Technology of Cultural Materials: Ceramics and Glass
ARTC 445 Technology of Cultural Materials: Metals
ARTC 458 Science and Detection of Art Forgeries
ARTH 207 The Art of Egypt and the Near East
ARTH 216 The Art of India
ARTH 223 Baroque Art
ARTH 226 Baroque and Rococo Architecture and Urbanism
ARTH 227 Eighteenth Century Art
ARTH 228 Modern Art I
ARTH 229 Modern Art II
ARTH 230 American Art: 1607-1865
ARTH 231 American Art: 1865-present
ARTH 232 Art of China
ARTH 233 Art of Japan
ARTH 234 Art of India
ARTH 235 The Arts of the Islamic World
ARTH 237 Art of Tibet
ARTH 301 Research and Methodology in Art History
ARTH 302 Prints and Society
ARTH 304 Northern Baroque Art
ARTH 305 Italian Baroque: Metaphor and Marvel
ARTH 308 Modern Architecture I: 1750-1900
ARTH 310 The Role of the Artist in Society
ARTH 318 History of Photography
ARTH 339 Art and Architecture of Europe
CNST 214 Costume History Before 1700
CNST 224 Clothing Design and Production Since 1700

Option A (16 credits)
CHEM 103 General Chemistry
CHEM 104 General Chemistry
CHEM 321 Organic Chemistry
CHEM 322 Organic Chemistry

Option B (for Chemistry majors or minors) (19 credits)
CHEM 111 General Chemistry
CHEM 119 Quantitative Chemistry I
CHEM 112 General Chemistry
CHEM 120 Quantitative Chemistry II
CHEM 321 Organic Chemistry
CHEM 322 Organic Chemistry

Four courses, with at least three courses at or above the 300-level, from the following: 12
ANTH 216 Introduction to Material Culture Studies
ANTH 222 Technology and Culture
ANTH 229 Indians of North America
ANTH 321 Introduction to Ethnic Arts
ANTH 324 Old World Archaeology
ANTH 338 Arts and Crafts: Native South America
ANTH 379 Historical Archaeology of the Eastern United States
ARTH 451 Myth and Culture
ARTH 457 Survey of African Art
ARTC 444 Technology of Cultural Materials: Ceramics and Glass
ARTC 445 Technology of Cultural Materials: Metals
ARTC 458 Science and Detection of Art Forgeries
ARTH 207 The Art of Egypt and the Near East
ARTH 216 The Art of India
ARTH 223 Baroque Art
ARTH 226 Baroque and Rococo Architecture and Urbanism
ARTH 227 Eighteenth Century Art
ARTH 228 Modern Art I
ARTH 229 Modern Art II
ARTH 230 American Art: 1607-1865
ARTH 231 American Art: 1865-present
ARTH 232 Art of China
ARTH 233 Art of Japan
ARTH 234 Art of India
ARTH 235 The Arts of the Islamic World
ARTH 237 Art of Tibet
ARTH 301 Research and Methodology in Art History
ARTH 302 Prints and Society
ARTH 304 Northern Baroque Art
ARTH 305 Italian Baroque: Metaphor and Marvel
ARTH 308 Modern Architecture I: 1750-1900
ARTH 310 The Role of the Artist in Society
ARTH 318 History of Photography
ARTH 339 Art and Architecture of Europe
CNST 214 Costume History Before 1700
CNST 224 Clothing Design and Production Since 1700
The Department of Art History offers programs of study for majors and minors. Although majors may concentrate on the art of a particular time period or region, the program is designed to provide broad experience spanning many centuries and cultures. Because art history is an interdisciplinary field that extends into other areas of culture, the major includes work in such related disciplines as anthropology, studio art, English, history, languages and literature, music, philosophy, and theater.

Art History is concerned with the historical development of visual artifacts in relation to cultures and societies. The Department offers courses in nearly every area of art history, including European and American painting, photography, sculpture, and architecture from antiquity to the present, as well as African, Islamic, and Tibetan art. The faculty of the Department collaborates with the Winterthur Programs in Early American Culture and Art Conservation, as well as with faculty in Museum Studies and Material Culture. 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.

DEGREE: BACHELOR OF ARTS

MAJOR: ART HISTORY

CURRICULUM

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 301 Research and Methodology in Art History</td>
<td>3</td>
</tr>
<tr>
<td>Art history courses at the 300-level or above</td>
<td>3</td>
</tr>
<tr>
<td>Art History seminar at the 400-level</td>
<td>3</td>
</tr>
<tr>
<td>Other ARTH courses at 200-level or above</td>
<td>6</td>
</tr>
<tr>
<td>ENGL 202 Biblical and Classical Literature</td>
<td>3</td>
</tr>
<tr>
<td>Any advisor-approved 200- or 300-level History course</td>
<td>3</td>
</tr>
<tr>
<td>Nine credits, with the advisor's approval, from appropriate courses in the following areas:</td>
<td>9</td>
</tr>
<tr>
<td>Anthropology, Studio Art, Education, English, History, Foreign Languages and Literature (other than that used to satisfy the College's foreign language requirement), Music, Philosophy, and Theatre</td>
<td></td>
</tr>
</tbody>
</table>

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF: 124
The Department of Biological Sciences offers two degrees with five majors. A B.A. degree may be earned in Biological Sciences, Biological Sciences Education and an Honors B.A. degree may be earned in Biological Sciences. A B.S. degree in Biological Sciences may be earned with a concentration in Biotechnology, Ecology & Organismic Biology, or Cellular & Molecular Biology & Genetics and an Honors B.S. degree may be earned in Biotechnology. In addition the department offers two minors: Biological Sciences and Computational Biology.

The department participates in an interdepartmental B.S. degree in Environmental Sciences and, with the Department of Psychology, an interdepartmental B.A. degree in neuroscience. Students interested in marine biology are encouraged to take advantage of courses and research opportunities in the Department of Biological Sciences and the University’s College of Marine Studies.

**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 must consult with 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 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.

**CONcentrations in ecology & organismic biology and in cellular & molecular biology & genetics**

Biology is an extraordinarily broad discipline and specialization in more focused areas has become desirable for increasing numbers of students. The B.S. concentrations in Ecology & Organismic Biology and in Cellular & Molecular Biology & Genetics maintain large portions of the traditional B.A. degree while offering the opportunity for highly motivated students to pursue a somewhat narrower curriculum. These concentrations require more credit hours in the major and there are two additional requirements. First, a student must have a GPA of 3.0 in selected courses for admission to the degree (see details at the beginning of the statement of requirements for each concentration). Students will typically apply in the spring of their sophomore year. Second, a senior thesis based on original research must be completed and defended. The thesis may also be used for the Degree with Distinction and Honors Degree programs.

**Concentration in 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. Students 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 usually limited to 15 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 401 and BISC 300 (or other bio course if BISC 300 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.

**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 244 (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, telephone (302) 831-2282.

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**Degree: Bachelor of Arts Major: Biological Sciences**

**Curriculum**

See page 88 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</td>
<td>8</td>
</tr>
<tr>
<td>BISC 302</td>
<td>3</td>
</tr>
<tr>
<td>BISC 306</td>
<td>3</td>
</tr>
<tr>
<td>BISC 305</td>
<td>3</td>
</tr>
<tr>
<td>BISC 401</td>
<td>3</td>
</tr>
<tr>
<td>BISC 403</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following lab courses. The corresponding lecture is a prerequisite.

- BISC 312, WHICH MAY BE TAKEN CONCURRENTLY WITH BISC 302
- BISC 312, Quantitative Ecology
- BISC 316, Experimental General Physiology
- BISC 315, Experimental Cell Biology
- BISC 411, Experimental Molecular Biology of the Cell
- BISC 413, Experimental Genetic and Evolutionary Biology

A literature-based 600 level course chosen from a list on the department website.

Biology electives at the 300-level or above to total 33 credit hours in Biological Sciences.
RELATED COURSEWORK
CHEM 103/104 General Chemistry .................................................. 8
CHEM 321 Organic Chemistry ............................................................ 4
CHEM 322 Organic Chemistry ............................................................ 4
CHEM 213 Elementary Organic Chemistry ......................................... 4
CHEM 214 Elementary Biochemistry .................................................. 3
CHEM 216 Elementary Biochemistry Laboratory ................................ 1
PHYS 201/202 Introductory Physics I and II ....................................... 8
MATH 221 Calculus I ................................................................. 3
MATH 241 Analytic Geometry and Calculus A ..................................... 4

A grade of D (not D-) or better must be obtained in Chemistry, Physics, and Mathematics courses required for all Biological Sciences majors and minor 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 as possible. The following course of study is designed to prepare students for teacher certification.

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 as possible. The following course of study is designed to prepare students for teacher certification.

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

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 p. 45 of this catalog)

UNIVERSITY AND COLLEGE REQUIREMENTS FOR ALL
BIOLOGICAL SCIENCES B.S. CONCENTRATIONS

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ........................................ 3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content [see p. 62-65] .......................... 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 media required with a number of years of high school study of a 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 examination examination.

BREADTH REQUIREMENTS [See page 93-98]
A total of twenty-one credits from Groups A, B and C is required with a minimum of six credits in each group ................................................. 21

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

CREDITS TO TOTAL A MINIMUM OF: ................................. 124
DEGREE: BACHELOR OF SCIENCE
MAJOR: BIOLOGICAL SCIENCES
CONCENTRATION: ECOLOGY AND ORGANISMIC BIOLOGY

An Ecology and Organic (EOB) admission committee advises students in the program. Requirements for admission are: 1) 3.0 GPA in prerequisite courses listed below; 2) support of a faculty member for the required research activity. In some cases the committee may interview the student as part of its determination of admission. Application will be in the spring of the sophomore year. Applications are available in the Undergraduate Programs office Wolf 115.

CURRICULUM

See text above for University and College requirements.

I. Prerequisite courses for admission to the EOB concentration:
BISC 207/208 Introductory Biology I and II 8
CHEM 103/104 General Chemistry 8
CHEM 321 Organic Chemistry 4
MATH 241 Analytic Geometry and Calculus A 4
BISC 302 General Ecology OR
BISC 306 General Physiology 3

II. Required lecture courses:
BISC 302 General Ecology 3
BISC 305 Cell Physiology OR
BISC 401 Molecular Biology of the Cell 3
BISC 306 General Physiology 3
BISC 409 Genetic and Evolutionary Biology 3

III. Required courses in experimental biology:
The corresponding lecture is a prerequisite. THE LECTURE AND THE LAB CANNOT BE TAKEN SIMULTANEOUSLY EXCEPT FOR BISC 312, WHICH MAY BE TAKEN CONCURRENTLY WITH BISC 302.

Two must be taken; others may be electives
BISC 312 Quantitative Ecology 2
BISC 315 Experimental Cell Biology 2
BISC 316 Experimental Physiology 2
BISC 411 Experimental Molecular Biology of the Cell 2
BISC 413 Experimental Genetic and Evolutionary Biology 2

IV. Senior Thesis
BISC 451-452 Senior Thesis (3+3 credit hours) OR
UNIV 401-402 Senior Thesis (3+3 credit hours) 6

V. Electives from the following groups to total 43 credit hours in the major. Note that many courses have prerequisites. Courses must be taken from a minimum of two of the groups and have approval of the faculty research advisor. One of the elective courses must be from the list of approved 600 level courses based on the primary literature.

A. ECOLOGY:
BISC 480 Vertebrate Natural History 3
BISC 495 Evolution 3
BISC 637 Population Ecology 3
BISC 641 Microbial Ecology 3
BISC 656 Evolutionary Genetics 3

B. ORGANISMIC BIOLOGY
BISC 303 Introduction to Microbiology 4
BISC 442 Vertebrate Morphology 4
BISC 605/606 Advanced Mammalian Physiology 8
BISC 626/627 Neuroscience I and II 7
BISC 630 Ichthyology 4
BISC 642 Advanced Vertebrate Anatomy 4
BISC 660 Environmental Physiology 3
BISC 675 Cardiopulmonary Physiology 3

C. COURSES IN EXPERIMENTAL BIOLOGY NOT SELECTED TO MEET THE REQUIREMENT IN III:
BISC 312, BISC 315, BISC 316, BISC 411 or BISC 413.

D. APPROVED ELECTIVES FROM OTHER DEPARTMENTS
A total of six credits from a list of approved courses can be applied towards the credits required for the major. Courses on this list are approved by the Undergraduate Programs Committee of the Department of Biological Sciences. A grade of D (not D-) or better must be obtained in Chemistry, Physics and Mathematics courses required for all Biological Sciences majors and minor.

VI. Additional requirements outside the Department of Biological Sciences

A and B:CHEM 201/202 General Physics 8
CHEM 322 Organic Chemistry 4
A course in Statistics (STAT) 3

DEGREE: BACHELOR OF SCIENCE
MAJOR: BIOLOGICAL SCIENCES
CONCENTRATION: CELL & MOLECULAR BIOLOGY & GENETICS

A Cell and Molecular Biology & Genetics (CMG) admission committee advises students in the program. Requirements for admission are: 1) 3.0 GPA in prerequisite courses listed below; 2) support of a faculty member for the required research activity. In some cases the committee may interview the student as part of its determination of admission. Application will be in the spring of the sophomore year. Applications are available in the Undergraduate Programs office Wolf 115.

CURRICULUM

See text above for University and College requirements.

I. Prerequisite courses for admission to the CMG concentration:
BISC 207/208 Introductory Biology I and II 8
CHEM 103/104 General Chemistry 8
CHEM 321 Organic Chemistry 4
MATH 241 Analytic Geometry and Calculus A 4

One of the following:
BISC 300 Introduction to Microbiology 4
BISC 302 General Ecology 3
BISC 306 General Physiology 3

II. Required lecture courses:
BISC 305 Cell Physiology 3
BISC 401 Molecular Biology of the Cell 3
BISC 409 Genetic and Evolutionary Biology 3

III. Required courses in experimental biology:
The corresponding lecture is a prerequisite. THE LECTURE AND THE LAB CANNOT BE TAKEN SIMULTANEOUSLY
BISC 315 Experimental Cell Biology 2
BISC 401 Molecular Biology of the Cell 2
BISC 409 Genetic and Evolutionary Biology 2

IV. Senior Thesis
BISC 451-452 Senior Thesis (3+3 credit hours) OR
UNIV 401-402 Senior Thesis (3+3 credit hours) 6

V. Electives from the following groups to total 43 credit hours in the major. Note that many courses have prerequisites. Courses must be taken from a minimum of two of the groups and have approval of the faculty research advisor. One of the elective courses must be from the list of approved 600 level courses based on the primary literature.

A. GENETICS
BISC 491 Human Molecular Cytogenetics 3
BISC 654 Biochemical Genetics 3
BISC 656 Evolutionary Genetics 3
BISC 658 Developmental Genetics 3
BISC 693 Human Genetics 3

B. MOLECULAR BIOLOGY AND BIOCHEMISTRY
BISC 602 Molecular Biology of Animal Cells 3
BISC 679 Virology 3
CHEM 642 Biochemistry 3
VI. Additional requirements outside the Department of Biological Sciences

A computer science course beyond the introductory level

1. MACROMOLECULES (Prerequisite BISC 401)
   BISC 604 Nucleic Acids Laboratory
   BISC 619 Gene Expression Laboratory
   BISC 601 Immunology Laboratory

2. CELL SYSTEMS
   BISC 617 Lab Techniques in Electron Microscopy
   BISC 618 Computer Imaging in Biology
   ANSC 644 Bioinformatics

V. Required Courses from Other Departments:

Chemistry:
   CHEM 103 General Chemistry
   CHEM 201 Organic Chemistry
   CHEM 250 Introduction to Biochemistry

Math:
   MATH 221 Calculus I

VI. Upper Division Requirements:

Choose TWO Courses from the following list (AT LEAST ONE MUST BE A BISC COURSE)
   BISC 602 Molecular Biology of Animal Cells
   BISC 654 Biochemical Genetics
   BISC 677 Virology
   BISC 656 Evolutionary Genetics
   BISC 615 Vertebrate Developmental Biology
   BISC 665 Advanced Molecular Biology and Genetics
   BISC 673 Topics in Immunogenics
   BISC 693 Human Genetics
   CHEM 648 Membrane Biochemistry
   ANSC 670 Principles of Molecular Genetics

Any additional 6xx laboratory course taken above the minimum of three may also count towards the upper division requirement.

A grade of D (not D) or better must be obtained in Chemistry, Physics and Mathematics courses required for all Biological Sciences majors and minor.

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 p. 45 of this catalog)

MINOR IN BIOLOGY

The required courses for the Minor in Biological Sciences are:

BISC 207 and 208

Two courses from:
   BISC 300, 302 (or 321) 306 (or 276), 401, 403

Additional BISC courses at the 300 level or above to total 19 credits in biology

CHEM 103 and 104 (or CHEM 101 and 102)
   CHEM 213 (or 321)

The requirements include any of the necessary prerequisites for the required courses. A grade of C- or better is required in all biology courses taken for the minor, and a D (not a D-) is required for all non-biology courses for the minor.

MINOR IN COMPUTATIONAL BIOLOGY

The minor in Computational Biology consists of 21 credit hours in the Life and Computing Sciences. A grade of C- or better must be earned in all required courses. Besides required courses, students wishing to minor in Computational Biology must complete a senior thesis, either by registering for UNIV401 and UNIV402, or through department sponsored research (e.g., BISC 466, independent study). One Life Science and one Computing Science faculty member must direct the research. The senior thesis committee must be composed of the two
research directors and one additional member chosen in consultation with the two research directors. At least one of the members of the committee must be a faculty member in the Department of Biological Sciences. The course requirements for the minor including all prerequisites for the courses are as follows:

**MINOR IN BLACK AMERICAN STUDIES**

For information, contact the program secretary, 417 Ewing Hall (302) 831-2897.

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 interdisciplinarity and multidisciplinary nature of the program allows flexibility for students seeking the relationships between their respective majors and Black American Studies.

**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, 205, 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.

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**CHEMISTRY AND BIOCHEMISTRY**

Telephone: (302) 831-2465
www.udel.edu/chem/index.html

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 Chemistry, 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. Minors in Biochemistry or Chemistry are also available.

**DEGREE: BACHELOR OF ARTS**

**MAJOR: CHEMISTRY**

**CURRICULUM**

See page 88 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 103/104 General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 220/221 Quantitative Analysis and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 111/112 General Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 119/120 Quantitative Chemistry I and II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 321/322 Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 331/332 Organic Chemistry Laboratory I and II</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 437/438 Instrumental Methods and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 418/419/445 Introductory Physical Chemistry and Laboratory</td>
<td>7</td>
</tr>
<tr>
<td>CHEM 443/444/445 Physical Chemistry and Laboratory</td>
<td>7</td>
</tr>
<tr>
<td>One of the following eight courses</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 410 History of Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 457 Inorganic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 527 Introductory Biochemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 610 Analytical Spectroscopy</td>
<td></td>
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<tr>
<td>CHEM 622 Electroanalytical Chemistry</td>
<td></td>
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<tr>
<td>CHEM 623 Chromatography</td>
<td></td>
</tr>
<tr>
<td>CHEM 631 Advanced Organic Chemistry: Physical</td>
<td></td>
</tr>
<tr>
<td>CHEM 634 Advanced Organic Chemistry: Synthesis and Reactivity</td>
<td></td>
</tr>
<tr>
<td>MATH 241 Analytic Geometry and Calculus A</td>
<td>4</td>
</tr>
<tr>
<td>MATH 242 Analytic Geometry and Calculus B</td>
<td></td>
</tr>
<tr>
<td>PHYS 201/202 Introductory Physics I and II</td>
<td>8</td>
</tr>
<tr>
<td>or PHYS 207/208 Fundamentals of Physics I and II</td>
<td>8</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: CHEMISTRY EDUCATION**

**CURRICULUM**

See page 88 for University and College requirements.

**MAJOR REQUIREMENTS**

CHEM courses to total 30 credits minimum

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111/112 General Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 119/120 Quantitative Chemistry I and II</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 103/104 General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 220/221 Quantitative Analysis and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>One of the following</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 213 Elementary Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 321/322 Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 331/332/333 Organic Chemistry and Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
Chemistry Education students must have a GPA of 4.9 and a grade of C- or better required. Chemistry courses selected. Credits must be in a required course in a related technical area, e.g., BISC, MATH, EDUC 430 Classroom Management. To be eligible to student teach, Chemistry Education students must consult with the teacher education program coordinator. 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, EDUC 430 Classroom Management.

**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 p. 65 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 3.30 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 multi-cultural, ethnic, and/or gender-related course content (see p. 62-65) 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 91-93.) ENGL 410 highly recommended.

Foreign Language: 0-12

Compilation of the intermediate-level course (107 or 112) in a modern foreign 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 modern foreign language may attempt to fulfill the requirement in that language by taking an exemption examination.

**Breadth Requirements** [See p. 95-98]

A total of twenty-one credits from Groups A, B, and C is required with a minimum of six credits in each group. 21

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.

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.

**Credits to Total a Minimum of: 124**

**Degree: Bachelor of Science Major: Chemistry Concentration: Environmental Chemistry**

**Curriculum**

**UNIVERSITY REQUIREMENTS**

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

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65) 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 91-93.) ENGL 410 highly recommended.

Foreign Language: 0-12

Compilation of the intermediate-level course (107 or 112) in a modern foreign 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 modern foreign language may attempt to fulfill the requirement in that language by taking an exemption examination.

**Breadth Requirements** [See p. 95-98]

A total of twenty-one credits from Groups A, B, and C is required with a minimum of six credits in each group. 21

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 I and II 4

CHEM 437/438 Instrumental Methods and Laboratory 4

CHEM 527 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, fall and spring] 2

Advanced Chemistry course at 600-level or higher 3

CHEM 468 Undergraduate Research [optional] 3

CHEM 421/424/425 Analytic Geometry and Calculus A, B and C 12

CHEM 201/202 Introductory Physics I and II 8

CHEM 207/208 Fundamentals of Physics I and II 8

Strongly Recommended: MATH 302 Ordinary Differential Equations I 3

**Electives**

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

**Credits to Total a Minimum of: 124**

**Degree: Bachelor of Science Major: Chemistry Concentration: Environmental Chemistry**

**Curriculum**

**Credits**

**MAJOR REQUIREMENTS**

All requirements for the B.S. in Chemistry must be met. In addition, the following courses are required for the concentration.

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

GEOL 107 General Geology

Two of the following three credit courses: 6

BISC 302 General Ecology

CHEM 608 Environmental Soil Chemistry

CHEM 801 Kinetics and Surface Chemistry of Solids

CHEM 817 Marine Inorganic Chemistry

CIEG 433 Hazardous Waste Management

CIEG 435 Industrial Wastes Management

CIEG 437/657 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 482 Introduction to Ocean Sciences

MAST 646 Chemical Oceanography

MAST 647 Physical Chemistry of Seawater

MAST 681 Remote Sensing of Environment

PISC 608 Environmental Soil Chemistry

**Credits to Total a Minimum of: 124**

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 overall 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 subspecialized courses taken after a higher level course in the same subspecialization has been taken and passed with a grade of C- or higher. Likewise, freshman-level...
courses may not be used by upperclassmen as GPA enhancers after those required for graduation have been taken. CHEM 342 and CHEM 100 will be regarded as exceptions to the foregoing prohibitions, since their subject matter coverage is considerably different than that found in higher level courses.

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: BIOCHEMISTRY

CURRICULUM

UNIVERSITY REQUIREMENTS

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

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65) 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 91-93.) ENGL 410 highly recommended

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 depends 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.

BREADTH REQUIREMENTS [See p. 93-98]

A total of twenty-one credits from Groups A, B and C is required with a minimum of six credits in each group 21

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 40 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 342 Introduction to Biochemistry 3
CHEM 418 Introductory Physical Chemistry I 3
CHEM 443 Physical Chemistry 4
CHEM 457/458 Instrumental Methods and laboratory 4
CHEM 641 Biochemistry 3
CHEM 419 Introductory Physical Chemistry II 3
CHEM 444 Physical Chemistry 3
CHEM 445 Physical Chemistry Laboratory 1
CHEM 642 Biochemistry 3
CHEM 643 Intermediary Metabolism 3

Two Advanced Chemistry courses at 600-level or

Two Biology courses selected from the following:

CHEM 645 Seminar (two semesters, fall and spring) 2
CHEM 648 Undergraduate Research 6

or

Two Biology laboratory courses selected from the following:

BISC 300 Introduction to Microbiology 4
BISC 306 General Physiology 3
BISC 401 Molecular Biology of the Cell 3
BISC 403 Genetic and Evolutionary Biology 3
BISC 601 Immunology 4
BISC 654 Biochemical Genetics 3
BISC 679 Virology 3

CHEM 641 Biochemistry 3
CHEM 642 Biochemistry 3
CHEM 643 Intermediary Metabolism 3

Students must have a minimum grade of C in each course counted toward the minor. CHEM 643 is recommended in place of CHEM 642 for those students who have taken BISC 401 Molecular Biology of the Cell.

RELATIVE WORK

MATH 241 Analytic Geometry and Calculus A 4
MATH 242 Analytic Geometry and Calculus B 8

stry courses at the time of graduation

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.

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 p. 45 of this catalog)

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

MINOR IN BIOCHEMISTRY

The minor in biochemistry requires 22 credits as follows:

CHEM 103/104 General Chemistry 8
CHEM 111/112 Quantitative Chemistry I and II 8
CHEM 321/322 Organic Chemistry 8
CHEM 331/332/333 Organic Chemistry 8
CHEM 641 Biochemistry 3
CHEM 642 Biochemistry 3
CHEM 643 Intermediary Metabolism 3

Students must have a minimum grade of C in each course counted toward the minor. CHEM 643 is recommended in place of CHEM 642 for those students who have taken BISC 401 Molecular Biology of the Cell.

CREDITS TO TOTAL A MINIMUM OF 124

Candidates for a B.S. in biochemistry must achieve a cumulative GPA of at least 2.00 for all chemistry courses taken. Repeated Chemistry courses are counted only once in the calculation of the Chemistry GPA. The calculation of the chemistry course GPA (2.00 minimum required for graduation) for candidates for the B.S. degree in Chemistry or Biochemistry will not include grades earned for lower level interdisciplinary 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.
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 (or CHEM 111/112/119)</td>
<td>8</td>
</tr>
<tr>
<td>Any three of the following:</td>
<td></td>
</tr>
<tr>
<td>CHEM 220/221 (or CHEM 437/438)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 321 (or CHEM 331/333)</td>
<td>4-5</td>
</tr>
<tr>
<td>CHEM 457/458</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 418/445 (or 443/445)</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.

COMMUNICATION

Telephone: (302) 831-8041
www.udel.edu/communication/index.html

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.

The major in communication is designed around two central goals: increasing knowledge about communication processes and their impact on society, and developing communication skills and competencies. In pursuing these goals, the Department of Communication has adopted a social and behavioral science orientation toward the study of human communication. All majors study communication in a wide variety of contexts, including interpersonal and mass communication in both mediated and face-to-face settings. A broad spectrum of classes enables students to critically analyze communication as well as recognize their own ethical responsibilities to self and community. The communication faculty is also committed to turning theory into effective skills for speaking, critical thinking, writing, and media production so that academic knowledge and experience extend beyond the classroom into future opportunities for students.

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.

DEGREE: BACHELOR OF ARTS

MAJOR: COMMUNICATION

CONCENTRATION: INTERPERSONAL COMMUNICATION

See page 88 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>1</td>
</tr>
<tr>
<td>COMM 301</td>
<td>3</td>
</tr>
<tr>
<td>COMM 330</td>
<td>3</td>
</tr>
<tr>
<td>COMM 341</td>
<td>3</td>
</tr>
<tr>
<td>COMM 350</td>
<td>3</td>
</tr>
<tr>
<td>COMM 417</td>
<td>3</td>
</tr>
<tr>
<td>COMM 421</td>
<td>1</td>
</tr>
</tbody>
</table>

Three courses (nine credits) chosen from the following list of courses:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 417</td>
<td>3</td>
</tr>
<tr>
<td>COMM 421</td>
<td>1</td>
</tr>
<tr>
<td>COMM 440</td>
<td>1</td>
</tr>
<tr>
<td>COMM 442</td>
<td>1</td>
</tr>
<tr>
<td>COMM 452</td>
<td>1</td>
</tr>
<tr>
<td>COMM 456</td>
<td>1</td>
</tr>
<tr>
<td>COMM 485</td>
<td>1</td>
</tr>
</tbody>
</table>

Six to 1.5 COMM elective credits for a total of not less than 34 nor more than 45 COMM credits. These may be taken from the other concentration, from above listing, or from the following:

INTERPERSONAL COMMUNICATION ELECTIVES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 343</td>
<td>3</td>
</tr>
</tbody>
</table>

POlITE S & MEDIA COMMUNICATION ELECTIVES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 319</td>
<td>3</td>
</tr>
<tr>
<td>COMM 318</td>
<td>3</td>
</tr>
<tr>
<td>COMM 329</td>
<td>3</td>
</tr>
<tr>
<td>COMM 486</td>
<td>3</td>
</tr>
</tbody>
</table>

ORGANIZATIONAL COMMUNICATION ELECTIVES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 342</td>
<td>3</td>
</tr>
<tr>
<td>COMM 356</td>
<td>3</td>
</tr>
</tbody>
</table>

PUBLIC RELATIONS ELECTIVES

NOTE: ENGL 307 is prerequisite to the following sequence and should be taken in the sophomore year. COMM 309 should be taken before any other Public Relations courses with the exception of COMM 401.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 309</td>
<td>3</td>
</tr>
<tr>
<td>COMM 311</td>
<td>3</td>
</tr>
<tr>
<td>COMM 401</td>
<td>3</td>
</tr>
<tr>
<td>COMM 409</td>
<td>3</td>
</tr>
<tr>
<td>COMM 413</td>
<td>3</td>
</tr>
</tbody>
</table>

TELEVISION PRODUCTION

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 325</td>
<td>3</td>
</tr>
<tr>
<td>COMM 326</td>
<td>3</td>
</tr>
<tr>
<td>COMM 327</td>
<td>3</td>
</tr>
<tr>
<td>COMM 328</td>
<td>3</td>
</tr>
<tr>
<td>COMM 388</td>
<td>3</td>
</tr>
</tbody>
</table>

GENERAL ELECTIVES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 200</td>
<td>3</td>
</tr>
</tbody>
</table>

Majors are required to have a total of not less than 34 nor more than 45 COMM credits. These may be taken from the other concentration, from above listing, or from the following:

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: COMMUNICATION

CONCENTRATION: MASS COMMUNICATION

See page 88 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>1</td>
</tr>
<tr>
<td>COMM 301</td>
<td>3</td>
</tr>
<tr>
<td>COMM 330</td>
<td>3</td>
</tr>
<tr>
<td>COMM 341</td>
<td>3</td>
</tr>
<tr>
<td>COMM 350</td>
<td>3</td>
</tr>
<tr>
<td>COMM 417</td>
<td>3</td>
</tr>
<tr>
<td>COMM 421</td>
<td>1</td>
</tr>
</tbody>
</table>

Three courses (nine credits) chosen from the following list of courses:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 417</td>
<td>3</td>
</tr>
<tr>
<td>COMM 421</td>
<td>1</td>
</tr>
<tr>
<td>COMM 440</td>
<td>1</td>
</tr>
<tr>
<td>COMM 442</td>
<td>1</td>
</tr>
<tr>
<td>COMM 452</td>
<td>1</td>
</tr>
<tr>
<td>COMM 456</td>
<td>1</td>
</tr>
<tr>
<td>COMM 485</td>
<td>1</td>
</tr>
</tbody>
</table>

Six to 1.5 COMM elective credits for a total of not less than 34 nor more than 45 COMM credits. These may be taken from the other concentration, from above listing, or from the following:

Mass Communication Electives

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 313</td>
<td>3</td>
</tr>
<tr>
<td>COMM 318</td>
<td>3</td>
</tr>
<tr>
<td>COMM 329</td>
<td>3</td>
</tr>
<tr>
<td>COMM 486</td>
<td>3</td>
</tr>
</tbody>
</table>

Organizational Communication Electives

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 342</td>
<td>3</td>
</tr>
<tr>
<td>COMM 356</td>
<td>3</td>
</tr>
</tbody>
</table>

Public Relations Electives

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 309</td>
<td>3</td>
</tr>
<tr>
<td>COMM 311</td>
<td>3</td>
</tr>
<tr>
<td>COMM 401</td>
<td>3</td>
</tr>
<tr>
<td>COMM 409</td>
<td>3</td>
</tr>
<tr>
<td>COMM 413</td>
<td>3</td>
</tr>
</tbody>
</table>

Television Production

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 325</td>
<td>3</td>
</tr>
<tr>
<td>COMM 326</td>
<td>3</td>
</tr>
<tr>
<td>COMM 327</td>
<td>3</td>
</tr>
<tr>
<td>COMM 328</td>
<td>3</td>
</tr>
<tr>
<td>COMM 388</td>
<td>3</td>
</tr>
</tbody>
</table>

General Electives

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 200</td>
<td>3</td>
</tr>
</tbody>
</table>

Majors are required to have a total of not less than 34 nor more than 45 COMM credits. These may be taken from the other concentration, from above listing, or from the following:

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

ARTS AND SCIENCES UNDERGRADUATE
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 Baccalaureate degree (see p. 45 of this catalog)
3. Nine of the Honors credits in the major must be at the 300-level or above and must include at least one 400-level COMM course.

COMPARATIVE LITERATURE

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

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.

DEGREE: BACHELOR OF ARTS
MAJOR: COMPARATIVE LITERATURE

CURRICULUM

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

CMIT 202 Biblical and Classical Literature 3
CMIT 207 Great Writers of the Western World: 1100-1700 3
CMIT 208 Great Writers of the Western World: 1650-1950 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

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 Baccalaureate degree (see p. 45 of this catalog)
3. Nine of the Honors credits in the major must be at the 300-level or above and must include at least one 400-level COMM course.

MINOR IN COMPARATIVE LITERATURE

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

1. Core courses in comparative literature (6 credits) Two of CMIT 202, 207, or 208
2. Foreign literature courses (6 credits) Advanced elective-level courses studied in the original text.
3. Advanced English or Advanced CMIT course (3 credits)
4. Approved related area course (3 credits)
The Department of Computer Science offers four-year undergraduate programs leading to one of three degrees. The Bachelor of Arts degree in Computer Science is intended for students who want the breadth of a liberal arts education with a major in computer science. The Bachelor of Science degree in Computer Sciences provides a strong technical education in computer systems, software development, computational applications, and theory of computation. The Bachelor of Science degree in Information Systems is designed for students who want to apply expertise in computer science to the solution of business problems. 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. Honors students are strongly encouraged to become involved in faculty research projects. The B.A. degree requires a minimum grade of C- in every CISC course used toward the major.

Courses are also provided for students in other areas who desire an understanding of the application of the computer to the subjects of their major interest. The Department offers minors in bioinformatics and computer science. In many courses, problem solutions require the use of computers located throughout campus. These computers are available to undergraduate students for use with both coursework and research.

**DEGREE: BACHELOR OF ARTS**

**MAJOR: COMPUTER SCIENCE**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISC 318 Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CISC 220 Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CISC 260 Machine Organization and Assembly Language</td>
<td>3</td>
</tr>
<tr>
<td>CISC 280 Programming Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

Eighteen credits of Computer Science numbered 301 or above, approved by the student’s advisor.

**MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210 Discrete Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241 Analytic Geometry and Calculus A/B</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum grade C- in the CISC courses. Minimum grade C- in MATH 210 for students who wish to take CISC 301.

**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: COMPUTER SCIENCE**

<table>
<thead>
<tr>
<th>UNIVERSITY REQUIREMENTS</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110 Critical Reading and Writing (minimum grade C)</td>
<td>3</td>
</tr>
</tbody>
</table>

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related course content (see p. 62-65).

<table>
<thead>
<tr>
<th>COLLEGE REQUIREMENTS</th>
<th>CREDITS</th>
</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 93-94.)

**BREADTH REQUIREMENTS** (see page 93-98)

Six credits from each of the following groups.

- **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**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISC 181 Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CISC 220 Data Structures (minimum grade C)</td>
<td>3</td>
</tr>
<tr>
<td>CISC 260 Machine Organization and Assembly Language (minimum grade C)</td>
<td>3</td>
</tr>
<tr>
<td>CISC 280 Programming Techniques (minimum grade C)</td>
<td>3</td>
</tr>
<tr>
<td>CISC 303 Automata Theory</td>
<td>3</td>
</tr>
<tr>
<td>CISC 320 Introduction to Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CISC 360 Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CISC 361 Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISC 475 Object-oriented Software Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

An additional nine credits of Computer Science numbered 301 or above, approved by the student’s advisor.

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. Concentration courses must be distinct from other CISC requirements.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 205 Statistical Methods</td>
<td>4</td>
</tr>
<tr>
<td>MATH 350 Probability Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 210 Discrete Mathematics I (minimum grade C)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241/242 Analytic Geometry and Calculus A/B</td>
<td>8</td>
</tr>
</tbody>
</table>

Twelve credits in science courses including one of the following sequences of laboratory science courses:

- PHYS 207/208 Fundamentals of Physics
- CHEM 103/104 General Chemistry
- BISC 207/208 Introductory Biology
- GEOL 105/115/107 Geological Hazards and Laboratory, General Geology

A course chosen from MATH 243, CISC 304, MATH 349, or a substitute from the list at http://www.cis.udel.edu approved beforehand in writing by the advisor.

Additional advisor-approved mathematics or science course.


<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 312 Written Communications in Business</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 410 Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>CISC 355 Computers, Ethics and Society</td>
<td>3</td>
</tr>
<tr>
<td>CPEG 202 Introduction to Digital Systems</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 SCIENCE
MAJOR: INFORMATION SYSTEMS

CURRICULUM

UNIVERSITY REQUIREMENTS

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

Three credits in a course or courses stressing multi-cultural, ethnic, and/or gender related course content 3

COLLEGE REQUIREMENTS

Writing Course: (minimum grade C) ...................................................................................... 3

(A second writing course taken after completion of 60 credit hours. The course must be selected from among the courses designated in the semester’s registration booklet as satisfying the second writing requirement)

BREADTH REQUIREMENTS

Six credits from each of the following groups. ................................................................. 18

Group A: Understanding and appreciation of the art and humanities

Group B: The study of culture and institutions over time

Group C: Empirically based study of human beings and their environment.

MATHEMATICS AND SCIENCE REQUIREMENTS

MATH 241: Analytic Geometry and Calculus A ................................................................. 4

Math 210: Discrete Mathematics I ..................................................................................... 3

Math 205: Statistical Methods ............................................................................................ 4

Laboratory Science Course:
Must be one of the following two-semester sequences: .................................................. 8

PHYS 207-208 Fundamentals of Physics

PHYS 201-202 Introductory Physics

CHEM 103-104 General Chemistry

BISC 207-208 Introductory Biology

GEOL 105-115-107 Geological Hazards and Laboratory, General Geology

OTHER NON-MAJOR REQUIREMENTS

ENGL 312: Written Communications in Business or

ENGL 410: Technical Writing ............................................................................................... 3

COMM 312: Oral Communication in Business ..................................................................... 3

CSCS 355: Computers, Ethics, and Society ........................................................................ 3

MAJOR REQUIREMENTS

CIS 181: Introduction to Computer Science (minimum grade C) ............................. 3

CIS 220: Data Structures (minimum grade C) ............................................................. 3

CIS 250: Business Telecommunication Networks ......................................................... 3

CIS 280: Program Development Techniques (minimum grade C) .......................... 3

CIS 370: Object-Oriented Programming, Java and the World Wide Web ......... 3

CIS 437: Database Systems .............................................................................................. 3

CIS 475: Object-oriented Software Engineering ............................................................. 3

BUEC 450: Systems Analysis and Implementations ......................................................... 3

BUSINESS CORE REQUIREMENTS

ACCOUNTING I ................................. 3

ACCOUNTING II ................................. 3

OPERATIONS MANAGEMENT ................................. 3

MANAGEMENT AND ORGANIZATIONAL BEHAVIOR ................................. 3

INTRODUCTION TO MARKETING ................................. 3

or

FINANCIAL MANAGEMENT ................................. 3

IS CORE REQUIREMENTS

BUEC 431: Technological Problem Solving ................................................................. 3

BUEC 432: Problem Solving Project Management .......................................................... 3

Electives (3 courses) ........................................................................................................ 9

These 3 additional courses are selected from CIS 260, CIS courses numbered 301 or above, BUAD 301, FINC 311, BUEC courses numbered 300 or above (except BUEC 325 and BUEC 330) and approved by the student’s advisor.

ELECTIVES

In addition to the required courses, sufficient credits must be taken to meet the minimum credits required for the degree

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

HONORS BACHELOR OF ARTS:
COMPUTER SCIENCE

HONORS BACHELOR OF SCIENCE:
COMPUTER SCIENCE

HONORS BACHELOR OF SCIENCE:
INFORMATION SYSTEMS

For these honors degrees, the recipient must complete:

1. All requirements for the corresponding regular degree program: Bachelor of Arts in Computer Sciences, the Bachelor of Science in Computer Science, or the Bachelor of Science in Information Systems.

2. All of the University’s general requirements for the Honors Degree (see page 45 of this catalog).

Note: Graduate courses in CISC numbered 600 or above 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

MINOR IN BIOINFORMATICS

A minor in bioinformatics consists of a total of 21 or more credits in the Life Sciences and Computer and Information Sciences, including BISC 401, ANSC 644, CIS 220, CIS 437, and CHEM 527. A grade of C- or better must be earned in all required courses for the minor.

Besides these required courses, students wishing to minor in Bioinformatics must complete a senior thesis (6 credits), either by registering for UNIV 401 and UNIV 402, or through department sponsored research (e.g., CIS 466, Independent study). One Life Science and one Computer and Information Science faculty member must direct the research. The senior thesis committee must be composed of the two research directors and one additional member chosen in consultation with the two research directors.

MINOR IN COMPUTER SCIENCE

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

CONTINENTAL EUROPEAN STUDIES

Coordinator: Professor James Brophy

History

Telephone: (302) 831-0795

E-mail: ces-areastudies@udel.edu

www.fllt.udel.edu/continental_european.html

An interdisciplinary major in Continental European Studies, including an Honors option, is offered jointly by the Departments of Foreign Languages and Literatures, History, and Political Science and International Relations. The B.A. program in Continental European Studies prepares undergraduate students as Europeanists; accordingly, 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 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 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 international 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.

DEGREE: BACHELOR OF ARTS

MAJOR: CONTINENTAL EUROPEAN STUDIES

A minimum grade of C is required in all courses.

CURRICULUM CREDITS

See page 88 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, or Spanish), as follows:

3 credits at the 200-level
3 credits at the 200- or 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 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 courses 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:

POSC 310 European Governments
3

POSC 372 East Central European Politics

Two of the following:

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 Distinction 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 45 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 3.0.

DEGREE: BACHELOR OF ARTS

MAJOR: EAST ASIAN STUDIES

CURRICULUM CREDITS

See page 88 for University and College requirements

MAJOR REQUIREMENTS (31 OR 32)

A minimum grade of C is required in all courses.

One of the following options (A or B):

A Concentration in China or Japan (7 credits total)

One of the following two courses:

CHIN 107 Chinese III - Intermediate
JAPN 107 Japanese III - Intermediate

Plus 3 credit hours at the 200-level or above in Chinese or in Japanese (including JAPN 200, 205, 206, or 209)

or

B Joint Chinese/Japanese Concentration (8 credits total)

CHIN 107 Chinese III - Intermediate
JAPN 107 Japanese III - Intermediate

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 three courses:

ARTH 155 Asian Art
JAPN 204 The Art of Japanese Calligraphy
MUSC 206 Music of China, Korea, and Japan

ARTS AND SCIENCES

EAST ASIAN STUDIES

For information, contact:
Professor David Pong, 224 Munroe Hall
dpong@udel.edu
(302) 831-2371
or visit www.udel.edu/AreaStudes/asia.html

An interdisciplinary major in East Asian Studies, including an Honors option, is offered jointly by several departments in the College of Arts and Sciences. 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 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 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.

DEGREE: BACHELOR OF ARTS

MAJOR: EAST ASIAN STUDIES

CURRICULUM CREDITS

See page 88 for University and College requirements

MAJOR REQUIREMENTS (31 OR 32)

A minimum grade of C is required in all courses.

One of the following options (A or B):

A Concentration in China or Japan (7 credits total)

One of the following two courses:

CHIN 107 Chinese III - Intermediate
JAPN 107 Japanese III - Intermediate

Plus 3 credit hours at the 200-level or above in Chinese or in Japanese (including JAPN 200, 205, 206, or 209)

or

B Joint Chinese/Japanese Concentration (8 credits total)

CHIN 107 Chinese III - Intermediate
JAPN 107 Japanese III - Intermediate

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 three courses:

ARTH 155 Asian Art
JAPN 204 The Art of Japanese Calligraphy
MUSC 206 Music of China, Korea, and Japan
Nine credits of major electives in the Humanities and  
Social Sciences, from at least 2 departments, selected through prior consultation with the student’s Advisor.

These courses include, among others: ARTH Peoples of the World (if majority of content pertains to East Asia), ARSC 130 (may be repeated when topic differs), ARTH 155 (if not selected as a required course), ARTH 233, ARTH 234, ARTH 237, FLIT 328 (may be repeated when topic differs), FLIT 380 (may be repeated when topic differs), FLIT 338, HIST 270, HIST 268 (restricted to sophomores and above), HIST 269 (restricted to sophomores and above), HIST 270, HIST 272, HIST 375 (may be repeated when topic differs), HIST 202, JAPN 204, JAPN 203, JAPN 208, JAPN 209, JAPN 266, JAPN 303, JAPN 340, JAPN 341, JAPN 355, JAPN 366, JAPN 440, JAPN 455, MUSC 121 (1 credit), MUSC 206 (if not selected as a required course), POSC 247, POSC 426, POSC 443, plus 200 level CHIN, 200 level JAPN, certain 300 level ECON and certain HESC 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

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 45 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. The cumulative grade point average for all courses in major must be at least 3.400.
3. For the Honors Degree with Distinction in East Asian Studies, the six credit hours of thesis would be in addition to the 31 or 32 credit hours required for the major, to yield a total of 37 or 38 credit hours.

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 151 Art in East and West
FLIT 380 Topics: Japanese Culture in Translation
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 1900
HIST 370 History of Modern Japan
HIST 393 History of Modern Vietnam
HIST 3xx China and the West
HIST 479 Seminar in Asian History
POSC 427 Politics in China
POSC 428 Politics in Japan
POSC 443 China and the World
POSC 429 Southeast Asia and the World

Substitutions for the above courses may be made with permission from the program director. Independent studies and special problems courses may also count towards the minor with the director’s approval. The course list will be updated as new courses become available.

EAST ASIAN STUDIES MINOR WITH LANGUAGE

The minor in East Asian Studies with Language consists of the 18 credits of requirements for East Asian Studies without Language plus completion of either CHIN 107 or JAPN 107 or their equivalents in transfer credit or by successful performance on a proficiency examination. The number of credits required for this minor therefore ranges from 18-30, depending upon the student’s language placement.

ECONOMICS

Telephone: (302) 831-2563
www.be.udel.edu/economics

Students enrolled in the College of Arts and Sciences may earn a Bachelor of Arts degree by majoring in Economics or in Economics Education. These majors have the same group and language requirements as other Bachelor of Arts programs offered in the College of Arts and Sciences. In the Economics major, the student is required to choose a major in Mathematics, Economics, or other Social Sciences, or to complete a minor in Economics. In addition, students may choose a major in Mathematics and Economics leading to the Bachelor of Science degree; see separate listing in this chapter.

Both a Bachelor of Arts and a Bachelor of Science degree are available to students enrolled in the College of Business and Economics. The group and language (Bachelor of Arts) or quantitative proficiency (Bachelor of Science) requirements for students enrolled in the College of Business and Economics are described in the College of Business and Economics section of this catalog.

A minor program in economics is also available through the College of Business and Economics.

Economics, a social science, analyzes the market and non-market production and allocation of goods and services. The problems associated with society’s effort to prosper in a world possessing finite resources provide the focus. Students majoring in economics will be advised by the faculty of the Department of Economics within the College of Business and Economics.

DEGREE: BACHELOR OF ARTS

MAJOR: ECONOMICS

CURRICULUM

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

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

Five Economics courses, at least two of which are at or above the 400 level 15
MATH 201 Introduction to Statistics
MATH 202 Introduction to Statistics II

Nine credits chosen from any 300-level or higher course in Accounting, Anthropology, Business Administration, Computer Science, Finance, Geography, History, Mathematics, Philosophy, Political Science, Psychology, Sociology and Statistics. Also acceptable are ACCT 207, 208 and 261, any 200-level Mathematics course (except MATH 201, MATH 202, MATH 205, MATH 250, MATH251, MATH 252, and MATH 253) and any BUEC 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

A minimum standard of C- is required in MATH 114 or 115, and in both MATH 201 and 202. All majors must take at least one 400-level economics elective that
**ARTS AND SCIENCES**

**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
- **ECON 822/823** Econometric Theory/Seminar in Econometrics ........................................ 6
- **Two Economics courses at the 300- or 400-level** (but not ECON 403, ECON 405 or ECON 408) ................................................................. 3
- **One Economics course at the 400-level**, or at the 600-level by approval (but not ECON 403, ECON 405 or ECON 408) ........................................ 3
- **Twelve credits of course work in the quantitative area**, including the following:
  - **ACCT 261** Introduction to Business Information Systems II (prerequisite ACCT 165) ........ 12

Six credits in MATH at or above the 200-level (except MATH 201, MATH 202, MATH 205, MATH 250, MATH 251, MATH 252, or MATH 253)

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, MATH 300, 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
- **ECON 822/823** Econometric Theory/Seminar in Econometrics ........................................ 6
- **Three Economics courses at the 300- or 400-level** ............................................................ 9
- **Two additional 400-level courses in economic theory**, chosen from ECON 406, ECON 426, ECON 430, ECON 441, ECON 443, ECON 461, ECON 463, or graduate level courses in economic theory by approval. A mathematics course at the 300-level or above may be substituted for one of the 400-level courses in economic theory
- **Twelve credits of course work in the quantitative area**, including the following:
  - **ACCT 261** Introduction to Business Information Systems II (prerequisite ACCT 165) ........ 12

Six credits in MATH at or above the 200-level (except MATH 201, MATH 202, MATH 205, MATH 250, MATH 251, MATH 252, or MATH 253)

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, MATH 300, CISc courses at or above the 300-level

**DEGREE: BACHELOR OF ARTS**

**MAJOR: ECONOMICS EDUCATION**

**CURRICULUM**

See page 88 for University and College requirements

**MAJOR REQUIREMENTS**

Minimum C in all required ECON courses

- **ECON 151** Introductory Macroeconomics: Prices and Markets ........................................ 3
- **ECON 152** Introductory Microeconomics: National Economy ............................................. 3
- **ECON 300** Intermediate Microeconomic Theory ............................................................... 3
- **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 150** The American Political System ........................................................................... 3
- **GEOG 120** World Regional Geography ................................................................................ 3
- **HIST 104** World History II .................................................................................................. 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**

**EDUC 413** Adolescent Development and Educational Psychology ........................................... 4

**EDUC 414** Teaching Exceptional Adolescents ........................................................................ 3

**EDUC 419** Diversity in Secondary Education ........................................................................... 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

**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 Sciences
2. All the University's generic requirements for the Honors Degree (see page 45 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**

Telephone: (302) 831-2361

www.english.udel.edu

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 they 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 the secondary schools (grades 7-12). Graduates of this program receive the B.A. in English and are eligible for teacher certification in 27 states and the Overseas Dependent Schools System.

The department regularly offers a series of creative writing courses that are 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 journal concentration; ENGL 312, 410, 413, 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 English education program.

**DEGREE: BACHELOR OF ARTS**

**MAJOR: ENGLISH**

See page 88 for University and College requirements.

**MAJOR REQUIREMENTS**

Five of the following seven 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 American Literature
- or ENGL 341 American Literature

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

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 .................................................. 6

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

All English majors must take at least one ENGL 480 seminar and can 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**

**DEGREE: BACHELOR OF ARTS**

**MAJOR: ENGLISH**

**CONCENTRATION: BUSINESS/TECHNICAL WRITING**

See page 88 for University and College requirements.

**MAJOR REQUIREMENTS**

Five of the following seven 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 American Literature
- 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 411 Rhetoric for Business and Technical Writers ........................................ 3

ENGL 412 Business and Technical Publication ................................................. 3

ENGL 414 Technical Editing ................................................................. 3

ENGL 464 Internship in Business/Technical Writing ......................................... 3

Optional:

- ENGL 413 Topics in Technical Writing or one other EBT course ..................... 3

All English Business/Technical Writing 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. Most concentrators take a core of courses in a technical or business discipline such as Computer Science, Chemistry, Business Administration or Accounting.

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

**DEGREE: BACHELOR OF ARTS**

**MAJOR: ENGLISH**

**CONCENTRATION: CREATIVE WRITING**

See page 88 for University and College requirements.

**MAJOR REQUIREMENTS**

Five of the following seven 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 American Literature
- or ENGL 341 American Literature

Six credits at the 300-level or above from each of the following groups (2 courses total): 6

Medieval and Renaissance literature (excluding ENGL 324) or
Literature between 1700 and 1900.
Modern Literature

Cultural and Theoretical Studies

One other literature course is required. This course may be at the 200-, 300-, or 400-level if one of the courses taken in the above two groups is a 480 seminar. Otherwise, this additional course must be a 480 seminar.

One course at the 200-level or above in a literary genre (novel, short story, poetry, drama) to be chosen in consultation with the concentration advisor.

At least three courses chosen from among the following courses, in two genres:
- ENGL 304 Poetry Writing
- ENGL 305 Fiction Writing
- ENGL 306 Topics In Writing: Scriptwriting
- ENGL 404 Advanced Poetry Writing
- ENGL 405 Advanced Fiction Writing

Note: The above courses all require permission of the instructor. Requirements for entrance into the concentration:
Contact Professor Cruce Stark (302) 831-3652

ENGL 307, 308, 309, 310, 407, 408, 439 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

DEGREE: BACHELOR OF ARTS

MAJOR: ENGLISH

CONCENTRATION: DRAMA

CURRICULUM

CREDITS

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

ENGL 324 Shakespeare

Four of the following six courses: .......................... 12
ENGL 202 Biblical and Classical Literature
ENGL 205 British Literature I
ENGL 206 British Literature II
ENGL 300 Texts and Contexts
ENGL 340 American Literature or
ENGL 341 American Literature

One course at the 300-level or above from each of the following groups (2 courses total): ......... 6
- Medieval and Renaissance literature (excluding ENGL 324)
- Literature Between 1700 and 1900
- Modern Literature
- Cultural and Theoretical Studies

One other literature course is required. This course may be at the 200-, 300-, or 400-level if one of the courses taken in the above two groups is a 480 seminar. Otherwise, this additional course must be a 480 seminar.

ENGL 206 Introduction to Drama

Three additional courses (approved by the Faculty Advisor), at least one of which should be either a Theatre Studies course or a comparable course.

ENGL 307, 308, 309, 310, 407, 408, 409 count toward the English major only as part of the concentration in Journalism; ENGL 312, 410, 413, 444 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

DEGREE: BACHELOR OF ARTS

MAJOR: ENGLISH

CONCENTRATION: ETHNIC AND CULTURAL STUDIES

CURRICULUM

CREDITS

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

ENGL 300 Texts and Contexts .................................. 3

Four of the following six courses: .......................... 12
ENGL 302 Biblical and Classical Literature
ENGL 205 British Literature I
ENGL 206 British Literature II
ENGL 324 Shakespeare
ENGL 340 American Literature or
ENGL 341 American Literature

Nine credits at the 300-level or above, distributed as follows: ............. 9
- A course other than Shakespeare in Medieval or Renaissance literature or a course in literature between 1700 and 1900
- A course in Modern literature or a course in cultural and theoretical studies
- A literature course

ENGL 379 Introduction to Ethnic and Cultural Studies ......................... 3
ENGL 382 Studies in Multicultural Literature .................................. 3

Two other courses at the 300-level or above, to be chosen in consultation with the student's concentration advisor. 

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 88 for University and College requirements.

MAJOR REQUIREMENTS

Five of the following seven 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 American Literature or
ENGL 341 American Literature

Nine credits at the 300-level or above distributed as follows: ............. 9
- A course other than Shakespeare in Medieval or Renaissance literature or a course in literature between 1700 and 1900
- A course in Modern literature or a course in cultural and theoretical studies
- 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

118
**DEGREE: BACHELOR OF ARTS**  
**MAJOR: ENGLISH**  
**CONCENTRATION: JOURNALISM**

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>See page 88 for University and College requirements.</td>
<td></td>
</tr>
</tbody>
</table>

**MAJOR REQUIREMENTS**
Five of the following seven courses: 15
- 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 324 Shakespeare 3
- ENGL 340 American Literature before 1900 (300-level or above) 3
- ENGL 341 American Literature 3

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 3
- b. A course in Modern literature or a course in cultural and theoretical studies 3
- c. A literature course 3

ENGL 307 News Writing and Editing 3
Prior to enrolling in ENGL 307, ENGL 110 or equivalent must be completed with a grade of B or better.

Additional journalism courses totaling nine credits: 9
At least six credits must come from the following courses:
- ENGL 308 Reporter’s Practicum 3
- ENGL 309 Feature and Magazine Writing 3
- ENGL 310 Copy Editing and Layout 3
- ENGL 402 Advanced Reporting 3
- ENGL 408 Sports Writing 3
- ENGL 409 Topics in Journalism (variable content; may be repeated once) 3

Three credits may come from COMM 444 (Global Agenda), POSC 340 (Media and Politics) or from another journalism-related course approved by the student's advisor or by the director of the journalism program.

May be taken in addition to the 36 required credits in English:
- ENGL 466 Internship 1

All English/Journalism 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**

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>See page 88 for University and College requirements.</td>
<td></td>
</tr>
</tbody>
</table>

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 Sciences Breadth Requirements.

**MAJOR 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 Adolescent Development and Educational Psychology 4
EDUC 414 Teaching Exceptional Adolescents 3
EDUC 419 Diversity in Secondary Education 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 3

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

To be eligible to student teach, English Education students must have a GPA of 3.0 in their English major and an overall GPA of 2.75. They must also pass a teacher competency test as established by the University Council on Teacher Education. Students must consult with the teacher education program coordinator (see list on p. 205) 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. To earn an Honors B.A. Degree in English (all concentrations) or in English Education, the recipient must complete:

1. All of the requirements for the B.A. degree in English (and, where appropriate, concentration requirements) or in English Education.
2. All of the University's general requirements for the Honors Degree.
3. Nine of the credits in the major must be in ENGL courses at the 300-level or above, and these must include at least one ENGL 480 seminar course.

**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.

**FINE ARTS & VISUAL COMMUNICATIONS**

Telephone: (302) 831-2244  
http://www.udel.edu/art  
http://DEsigners.art.udel.edu

The Department of Fine Arts & Visual Communications is a studio-oriented department offering a wide range of visual arts activities and subject areas. Passing a portfolio review is required for admission to the major. The department offers undergraduate majors in Art (Bachelor of Arts), Fine Arts (Bachelor of Fine Arts), and Visual Communications (Bachelor of Fine Arts). The B.A. degree requires 42 credit hours minimum of art courses and 51 credit hours maximum. The B.F.A. degree requires 72 credit hours minimum of art courses and 86 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 18 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 416 and Art 417 are only required of B.F.A. 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 select a concentration in ceramics, painting, photography, printmaking, or sculpture. The visual communications major may select a concentration in advertising design, applied photography, graphic design, illustration, or interactive design. The courses of study are designed to prepare the student for professional practice in the student’s chosen area of concentration.

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.

**DEGREE:** BACHELOR OF ARTS

**MAJOR:** ART

**CURRICULUM**

See page 88 for University and College requirements.

**MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 111</td>
<td>Foundation 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 112</td>
<td>Foundation Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 113</td>
<td>Foundation 3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 114</td>
<td>Foundation Colloquium (fall semester)</td>
<td>0</td>
</tr>
<tr>
<td>ART 115</td>
<td>Foundation Colloquium (spring semester)</td>
<td>0</td>
</tr>
<tr>
<td>ART 114/115</td>
<td>Required fall and spring of freshman year</td>
<td>3</td>
</tr>
<tr>
<td>ART 116</td>
<td>Introduction to Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ART 117</td>
<td>Research Studio: Process and Product</td>
<td>3</td>
</tr>
</tbody>
</table>

Art Concentration: Twelve credits beyond those that might have been taken as part of foundation requirements. At least three credits must be at the 400-level (ceramics, painting, photography, printmaking, sculpture).

Art Electives: 12 credits.

Courses from other department concentrations outside of chosen art discipline:

Art History courses: 12 credits.

**ELECTIVES**

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

**CREDITS TO TOTAL A MINIMUM OF 124**

**DEGREE:** BACHELOR OF FINE ARTS

**MAJOR:** FINE ARTS

**CURRICULUM**

**UNIVERSITY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>Critical Reading and Writing (minimum grade C)</td>
<td>3</td>
</tr>
</tbody>
</table>

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65).

**COLLEGE REQUIREMENTS**

<table>
<thead>
<tr>
<th>Writing: [minimum grade C]</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 91-93]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics [one of the following]</th>
<th>0.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113 Contemporary 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 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>
<tr>
<td>MATH 115 Pre-Calculus</td>
<td></td>
</tr>
<tr>
<td>(designed for students who intend to continue the study of mathematics)</td>
<td></td>
</tr>
<tr>
<td>MATH 221 Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 241 Analytic Geometry and Calculus A</td>
<td></td>
</tr>
</tbody>
</table>

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

**BREADTH REQUIREMENTS** [See page 93-98]

<table>
<thead>
<tr>
<th>Group A</th>
<th>Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group B</td>
<td>The study of culture and institutions over time. Nine credits representing at least two areas</td>
<td>9</td>
</tr>
<tr>
<td>Group C</td>
<td>Empirically based study of human beings and their environment. Nine credits representing at least two areas</td>
<td>9</td>
</tr>
<tr>
<td>Group D</td>
<td>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</td>
<td>7</td>
</tr>
</tbody>
</table>

**MAJOR REQUIREMENTS**

**NOTE:** 75 credit hours minimum. Art Department courses; 86 credit hours maximum. Art Department courses; all grades in art must be C- or better.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 111</td>
<td>Foundation 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 112</td>
<td>Foundation Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 113</td>
<td>Foundation 3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 114</td>
<td>Foundation Colloquium (fall semester)</td>
<td>0</td>
</tr>
<tr>
<td>ART 115</td>
<td>Foundation Colloquium (spring semester)</td>
<td>0</td>
</tr>
<tr>
<td>ART 114/115</td>
<td>Required fall and spring of freshman year</td>
<td>3</td>
</tr>
<tr>
<td>ART 116</td>
<td>Introduction to Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ART 117</td>
<td>Research Studio: Process and Product</td>
<td>3</td>
</tr>
<tr>
<td>Art Electives</td>
<td>12 credits</td>
<td></td>
</tr>
<tr>
<td>ART 416</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>ART 417</td>
<td>BFA Exhibition</td>
<td>0</td>
</tr>
</tbody>
</table>

Art History courses: 12 credits.

**CONCENTRATIONS**

Students must choose one of five Fine Arts concentrations: Ceramics, Painting, Photography, Printmaking, or Sculpture. Each concentration requires 42 credit hours of course work. At least nine credits must be at the 400-level in each concentration.

**CERAMICS CONCENTRATION**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 246</td>
<td>Beginning Silkscreen</td>
<td>3</td>
</tr>
<tr>
<td>ART 250</td>
<td>Beginning Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 280</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 290</td>
<td>Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 350</td>
<td>Intermediate Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 390</td>
<td>Intermediate Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 391</td>
<td>Intermediate Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>Four additional 400-level ART courses in ceramics</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>One of the following</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 490</td>
<td>Advanced Ceramics</td>
<td></td>
</tr>
<tr>
<td>ART 491</td>
<td>Ceramics Studio</td>
<td></td>
</tr>
<tr>
<td>Two of the following</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ART 341</td>
<td>Woodcut and Etching</td>
<td></td>
</tr>
<tr>
<td>ART 342</td>
<td>Introduction to Monoprinting and Papermaking Processes</td>
<td></td>
</tr>
<tr>
<td>ART 351</td>
<td>Intermediate Sculpture II</td>
<td></td>
</tr>
<tr>
<td>ART 380</td>
<td>Intermediate Photography: Black and White</td>
<td></td>
</tr>
</tbody>
</table>
PAINTING CONCENTRATION

ART 230 Figure Drawing .......................... 3
ART 231 Beginning Painting ........................ 3
ART 250 Beginning Sculpture ........................ 3
ART 331 Intermediate Painting (must be taken twice) ........................ 6
ART 430 Drawing Studio .......................... 3
ART 433 Painting Studio .......................... 3

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

One of the following ............................. 3
ART 333 Figure Studio
ART 430 Drawing Studio

Two of the following ............................. 6
ART 241 Beginning Lithography
ART 341 Woodcut and Etching
ART 280 Beginning Photography
ART 290 Beginning Ceramics

PHOTOGRAPHY CONCENTRATION

ART 231 Beginning Painting ........................ 3
ART 246 Beginning Silkscreen ........................ 3
ART 250 Beginning Sculpture ........................ 3
ART 280 Beginning Photography ........................ 3
ART 290 Beginning Ceramics ........................ 3
ART 380 Intermediate Photography: Black and White ........................ 3
ART 381 Intermediate Photography: Color ........................ 3
ART 383 Photographic Facilities Management ........................ 3
ART 481 Photography Studio ........................ 3
ART 486 Photographic Electronic Imaging ........................ 3

One of the following taken for a second time ............................. 3
ART 481 Photography Studio
ART 486 Photographic Electronic Imaging

One of the following ............................. 3
ART 241 Beginning Lithography
ART 341 Woodcut and Etching
ART 342 Introduction to Monoprinting and Papermaking Processes

Two of the following ............................. 6
ART 274 Common Threads: Multicultural Survey of Fiber Processes
ART 418 Fine Arts Internship

One of ART 241, ART 341, or ART 342

One of ART 310 or ART 311

PRINTMAKING CONCENTRATION

ART 230 Figure Drawing .......................... 3
ART 231 Beginning Painting ........................ 3
ART 241 Beginning Lithography ........................ 3
ART 246 Beginning Silkscreen ........................ 3
ART 250 Beginning Sculpture ........................ 3
ART 290 Beginning Ceramics ........................ 3
ART 341 Woodcut and Etching ........................ 3
ART 342 Introduction to Monoprinting and Papermaking Processes ........................ 3
ART 441 Advanced Printmaking ........................ 3

Three additional 400-level ART courses in printmaking ........................... 9

Two of the following ............................. 6
ART 280 Beginning Photography
ART 331 Intermediate Painting
ART 333 Figure Studio
ART 430 Drawing Studio

SCULPTURE CONCENTRATION

ART 231 Beginning Painting ........................ 3
ART 250 Beginning Sculpture ........................ 3
ART 280 Beginning Photography ........................ 3
ART 290 Beginning Ceramics ........................ 3
ART 342 Introduction to Monoprinting and Papermaking Processes ........................ 3
ART 350 Intermediate Sculpture I ........................ 3
ART 351 Intermediate Sculpture II ........................ 3

Four additional 400-level ART courses in sculpture ........................... 12

One of the following ............................. 3
ART 450 Sculpture Studio
ART 451 Advanced Sculpture

Two of the following ............................. 6
ART 230 Figure Drawing
ART 331 Intermediate Painting
ART 380 Intermediate Photography: Black and White
ART 390 Intermediate Ceramics

ELECTIVES

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

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

DEGREE: BACHELOR OF FINE ARTS

MAJOR: VISUAL COMMUNICATIONS

CURRICULUM

UNIVERSITY REQUIREMENTS

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

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65) ........................ 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 91-93)

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 p. 93-98)

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 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: 75 credit hours minimum Art Department courses; 86 credit hours maximum Art Department courses; all grades in art must be C- or better

ART 110 Foundation Drawing I ........................ 3
ART 111 Foundation 2D Design ........................ 3
ART 112 Foundation Drawing II ........................ 3
ART 113 Foundation 3D Design ........................ 3
ART 114 Foundation Colloquium (fall semester) ........................ 0
ART 115 Foundation Colloquium (spring semester) ........................ 0
ART 114/115 Required fall and spring of freshman year
ART 116 Introduction to Digital Media ........................ 3
ART 117 Research Studio: Process and Product ........................ 3
ART 200 Visual Communications Process I ........................ 3
ART 201 Visual Communications Process II ........................ 3
ART 210 Visual Communications Imaging I ........................ 3
ART 211 Visual Communications Imaging II ........................ 3
ART 408 Visual Communications Internship ........................ 3
ART 417 BFA Exhibition .......................... 0

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ARTS AND SCIENCES

Art Electives ........................................................................... 12
Art History ........................................................................... 6

CONCENTRATIONS

Students must choose one of five Visual Communications concentrations: Advertising Design, Applied Photography, Graphic Design, Illustration, or Interactive Design. Each discipline requires 30 hours of course work. At least nine credits must be at the 400-level in each discipline.

ADVERTISING DESIGN CONCENTRATION

ART 302 Graphic Design I .................................................... 3
ART 303 Graphic Design II .................................................. 3
ART 304 Advertising Design I .............................................. 3
ART 305 Advertising Design II ............................................ 3
ART 402 Advanced Applied Design I .................................... 3
ART 403 Portfolio Preparation I ............................................ 3
ART 404 Advanced Applied Design II ................................... 3
ART 405 Portfolio Preparation II ......................................... 3

Two of the following ............................................................. 6
ART 230 Figure Drawing ...................................................... 3
ART 246 Beginning Silkscreen .............................................. 3
ART 310 Applied Photography ............................................. 3
ART 311 Applied Photographic Illustration ........................ 3

APPLIED PHOTOGRAPHY CONCENTRATION

ART 250 Beginning Sculpture ............................................... 3
ART 280 Beginning Photography ......................................... 3
ART 310 Applied Photography ............................................. 3
ART 311 Applied Photographic Illustration ........................ 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 302 Graphic Design I .................................................... 3
ART 304 Advertising Design I .............................................. 3
ART 380 Intermediate Photography: Black and White ........... 3
ART 381 Intermediate Photography: Color .......................... 3

GRAPHIC DESIGN CONCENTRATION

ART 302 Graphic Design I .................................................... 3
ART 303 Graphic Design II .................................................. 3
ART 304 Advertising Design I .............................................. 3
ART 305 Advertising Design II ............................................ 3
ART 402 Advanced Applied Design I .................................... 3
ART 403 Portfolio Preparation I ............................................ 3
ART 404 Advanced Applied Design II ................................... 3
ART 405 Portfolio Preparation II ......................................... 3

Two of the following ............................................................. 6
ART 230 Figure Drawing ...................................................... 3
ART 246 Beginning Silkscreen .............................................. 3
ART 310 Applied Photography ............................................. 3
ART 311 Applied Photographic Illustration ........................ 3

ILLUSTRATION CONCENTRATION

ART 230 Figure Drawing ...................................................... 3
ART 231 Beginning Painting ................................................ 3
ART 312 Illustration .......................................................... 3
ART 313 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 .............................................. 3
ART 280 Beginning Photography ......................................... 3
ART 331 Intermediate Painting .......................................... 3
ART 333 Figure Studio ........................................................ 3

INTERACTIVE DESIGN CONCENTRATION

ART 302 Graphic Design I .................................................... 3
ART 303 Graphic Design II .................................................. 3
ART 304 Advertising Design I .............................................. 3
ART 305 Advertising Design II ............................................ 3
ART 307 New Media Design ............................................... 3
ART 403 Portfolio Preparation I ............................................ 3
ART 405 Portfolio Preparation II ......................................... 3
ART 407 Advanced New Media Design (twice) ...................... 3

Two of the following ............................................................. 6
ART 250 Sculpture ............................................................. 3
ART 305 Advertising Design II ............................................ 3
ART 310 Applied Photography ............................................. 3
ART 311 Applied Photographic Illustration ........................ 3

The following three required non-art courses .............................................................. 9
CISC 103 Introduction to Computer Science with Web Applications
COMM 408 New Media Project Development
ENGL 413 Designing Online Information

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

MINOR IN ART

(Applications are not currently being accepted for the minor in art.)

The minor in art includes the fine arts concentrations 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 concentrations ........................................ 9 credits
b. Two studio art courses at the 300-level from one or two concentrations ................................................... 6 credits
c. One related nonstudio art, art history or art criticism course ................................................................. 3 credits

MINOR IN INTERACTIVE MEDIA

For more information contact Ray Nichols, Department of Fine Art and Visual Communications (nichols@udel.edu)

website: http://interactivemedia.udel.edu/degree_requirements.html

The minor requires a minimum of four semesters to complete following the recommended sequence of classes. The minor requires 18 credits taken as follows:

ART 307 Interactive Media Design ...................................... 3
CISC 103 Introduction to Computer Science with Web Applications 3
ENGL 413 Designing Online Information ................................ 3
COMM 408 New Media Project Development ...................... 3
Two elective courses ......................................................... 6

Note about Elective Courses:

Students must take two additional courses from existing University courses approved by the Governance and Admissions Committee. These courses are approved by the student’s advisor and the Governance and Admissions Committee on a student-by-student basis depending on each student’s major and rationale as stated in the application to the minor. Students will be strongly encouraged to participate in an internship experience as one of these courses. There are a number of viable and pertinent internship possibilities on campus, which would enhance the student’s experience.

Elective courses may be taken at any time, once approved by the Interactive Media Admissions committee

FOREIGN LANGUAGES AND LITERATURES

Telephone: (302) 831-2591
www.flit.udel.edu

MODERN. The B.A. in Foreign Languages and Literatures leads to concentrations 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 B.A. in Foreign Languages and Literature leads to a concentration in Ancient Greek and Roman Studies. A minor and an Honors Degree program are also offered. This program provides 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 classical antiquity learn habits of accuracy and clarity of expression and in the process grapple with the universal ethical, social, and political problems.

**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), 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 fall semester programs in France (Paris), and Spain (Granada), and spring semester programs in Costa Rica, Spain (Granada) and Italy (Siena). Beginning and intermediate-level students may participate in winter and/or summer session programs in Argentina, Brazil, Costa Rica, Ecuador, France, Germany, Greece, Italy, Japan, Martinique, Mexico, 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.

**MISCELLANY**

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

**Credit by Examination:** Students may receive up to 6 credits by examination for language courses at the 200-level and above, including but not exceeding one "conversation" class. Native speakers may not receive credits for courses in conversation.

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

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

**HONORS BACHELOR OF ARTS:**

**FOREIGN LANGUAGES AND LITERATURES;**

**FOREIGN LANGUAGE EDUCATION;**

**HISTORY/FOREIGN LANGUAGE;**

**FOREIGN LANGUAGE/POLITICAL SCIENCE**

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

- Foreign Languages and Literatures Concentrations: Ancient Greek and Roman Studies, French Studies, German Studies, Italian Studies, Russian Studies, Spanish Studies, Three Languages
- French Education
- German Education
- Italian Education
- Latin Education (including Classics concentration)
- Spanish Education
- History/Classics, French, German, Russian, or Spanish
- French, German, or Spanish/Political Science

**HONORS DEGREE REQUIREMENTS**

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

A. All requirements for one of the degrees listed above.

B. All the University's generic requirements for the Honors Degree (see page 45 of this catalog).

1. At least six of the Honors credits in the B.A. in Foreign Languages and Literatures or the B.A. in Foreign Language Education must be at the 300-level or above.

2. For the Honors Degree with Distinction, the Honors thesis for the B.A. in Foreign Language Education degrees will normally be written in the target language. With the prior approval of the thesis director and the Department Chair, the thesis may be written in English.

3. For the joint degree with History, at least six of the Honors credits in the major must be at the 300-level or above.
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: FRENCH EDUCATION

CURRICULUM CREDITS

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

FREN 211 French Reading & Composition 3
FREN 231 French Literature: Prose 3
FREN 302 French Literature: Poetry & Theatre 3
FREN 314 French Phonetics 3
FREN 338 Contemporary France II 6
FREN 401 Advanced French Grammar 3
FREN 402 Advanced French Composition 3
FREN 406 Advanced French Language 3
LING 440 Structure of French 3
LING/FLIT 422 Language Syllabus Design 3
LING/FLIT 424 Second Language Testing 3
EDUC 413 Adolescent Development and Educational Psychology 4
EDUC 414 Teaching Exceptional Adolescents 3
EDUC 419 Diversity in Secondary Education 3
EDUC 430 Classroom Management 1
EDUC 432 Methods of Teaching Foreign Languages 3
FLIT/FLIT 421 Methods of Teaching Foreign Languages 3
FLIT/FLIT 422 Language Syllabus Design 3
LING/FLIT 424 Second Language Testing 3

Grade of C- or better required in all required FREN, 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/Secondary Languages in Elementary Schools 3
EDUC/FLIT 476 Methods of Teaching Foreign/Secondary Languages in Elementary Schools 3
EDUC 202 Human Development I: Grades K-4 3

To be eligible to student teach, Foreign Language Education students must have a GPA of 3.0 in their French Education major and an overall GPA of 2.75. See EDUC 400 for pre- and co-requisite examination requirements. Students must consult with the teacher education program coordinator (see list on p. 205) 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: GERMAN STUDIES

Specific requirements for this concentration are described below. These requirements can also be viewed on-line at:
www.udel.edu/llit/faculty/lisa/germanba.html

Curriculum CREDITS

See page 88 for University and College requirements.
MAJOR REQUIREMENTS
Thirteen courses (39 credits), as follows:

Ten courses in German:
- Two of GRMN 2xx
- Two of GRMN 311, GRMN 355, GRMN 3xx
- Two of GRMN 3xx, 4xx
- Four of GRMN 4xx
Prerequisites for GRMN 300-level work are any two 200-level courses.
Prerequisites for GRMN 400-level work are any three 300-level courses.

Three courses (9 credits) may be taken from a wide selection:
- GRMN 2xx, GRMN 3xx, GRMN 4xx, GRMN 208, any FLLT course numbered 200-399; HIST 325, HIST 354, ARTH 339, POSC 441, MUSC 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

DEGREE: BACHELOR OF ARTS
MAJOR: GERMAN EDUCATION

CURRICULUM CREDITS

See page 88 for University and College requirements

MAJOR REQUIREMENTS
GRMN 200 German Grammar Review ........................................ 3
or
GRMN 205 German Conversation ........................................ 3

GRMN 305 German Conversation and Phonetics .......................... 3
or
GRMN 306 Practical Oral/Written Expression ........................... 3

GRMN 311 Introduction to Modern German Literature ................ 3
or
GRMN 308 Contemporary Germany II .................................... 3
or
GRMN 325 German Civilization and Culture ............................. 3

GRMN 355 Special Topics .................................................... 3

One of the following courses: ................................................. 3
- LING 460 The Structure of German
- Six credits in GRMN literature at the 400-level ....................... 6
- EDUC 413 Adolescent Development and Educational Psychology 3
- EDUC 414 Teaching Exceptional Adolescents ........................ 3
- EDUC 419 Diversity in Secondary Education ........................ 3
- FLLT/LING 421 Methods of Teaching Foreign Languages .......... 3
- FLLT/LING 422 Language Syllabus Design ............................ 3
- LING/FLLT 424 Second Language testing ............................. 3
- EDUC 400 Student Teaching .............................................. 9
- EDUC 430 Classroom Management ...................................... 1

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

For Foreign Language in Elementary School (K-12 certification) option, required courses in addition to above:
- FLLT/EDUC 429 Methods of Teaching Foreign/Second Language in Elementary Schools 3
- EDUC/LING 476 Second Language Acquisition and Bilingualism for Educators 3
- EDUC 202 Human Development I: Grades K-4 .......................... 3

To be eligible to student teach, Foreign Language Education students must have a GPA of 3.0 in their German Education major and an overall GPA of 2.75. See EDUC 400 for pre- and co-requisite examination requirements. Students must consult with the teacher education program coordinator (see list on p. 205) 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

Specific requirements for this concentration are described below. These requirements can also be viewed online at: www.udel.edu/ital/english/italian/italian.html

CURRICULUM CREDITS

See page 88 for University and College requirements

MAJOR REQUIREMENTS
Thirteen courses (39 credits), as follows:

Ten courses in Italian:
- One ITAL 2xx
- ITAL 211 or ITAL 212
- ITAL 305 or ITAL 306
- Two of: ITAL 310, ITAL 311, ITAL 355
- Two of ITAL 4xx (literature)
- One ITAL 4xx
- Two of ITAL 3xx, 4xx

Three courses (9 credits) at the 200-level or above, chosen with the prior approval of the advisor, from the following areas: Italian, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Music, Philosophy, Political Science, or Theatre.

NOTE: Students wishing to pursue a linguistics option in Italian Studies should consult their advisor or the Associate Chair of the department.

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: ITALIAN EDUCATION

CURRICULUM CREDITS

See page 88 for University and College requirements

MAJOR REQUIREMENTS
ITAL 200 Italian Grammar Review ........................................ 3
or
ITAL 250 Introduction to Business Italian .............................. 3

ITAL 205 Italian Conversation ........................................... 3
or
ITAL 206 Culture through Conversation ................................ 3

ITAL 211 Italian Reading and Composition: Short Fiction ........ 3
or
ITAL 212 Italian Reading and Composition: Drama and Prose .... 3

ITAL 305 Advanced Italian Conversation and Composition .......... 3
or
ITAL 306 Practical Oral/Written Expression ........................... 3

ITAL 3xx Literature ......................................................... 6
ITAL 3xx Civilization ......................................................... 3
ITAL 4xx Language .......................................................... 6
ITAL 4xx Literature .......................................................... 3

ITAL 4xx Language ......................................................... 3
EDUC 413 Adolescent Development and Educational Psychology 3
EDUC 414 Teaching Exceptional Adolescents ........................ 3
EDUC 419 Diversity in Secondary Education ........................ 3
EDUC 400 Student Teaching .............................................. 9

EDUC 430 Classroom Management ...................................... 1

ITAL/FLIT 421 Methods of Teaching Foreign Languages .......... 3
ITAL/FLIT 422 Language Syllabus Design ............................ 3
LING/FLLT 424 Second Language Testing ............................. 3

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

For Foreign Language in Elementary School (K-12 certification) option, required courses in addition to above:
- FLLT/EDUC 429 Methods of Teaching Foreign/Second Languages in Elementary Schools 3
- EDUC/LING 476 Second Language Acquisition and Bilingualism for Educators 3
- EDUC 202 Human Development I: Grades K-4 .......................... 3
To be eligible to student teach, Foreign Language Education students must have a GPA of 3.0 in their Latin Education major and an overall GPA of 2.75. See EDUC 400 for pre- and co-requisite examination requirements. Students must consult with the teacher education program coordinator (see list on p. 205) 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: LATIN EDUCATION

CURRICULUM

See page 88 for University and College requirements.

MAJOR REQUIREMENTS
LATN 2xx ............................. 6
LATN 3xx and/or LATN 4xx .............. 9
LATN 421 Latin Prose Composition ....... 3
LATN 431 History of Latin Literature .... 3
LATN 4xx ................................ 9
EDUC 413 Adolescent Development and Educational Psychology 4
EDUC 414 Teaching Exceptional Adolescents 3
EDUC 419 Diversity in Secondary Education 3
EDUC 400 Student Teaching 9
EDUC 430 Classroom Management 1
FLIT/FLIT 421 Methods of Teaching Foreign Languages 3
FLIT/FLIT 422 Language Syllabus Design 3
LING/FLIT 424 Second Language Testing 3

Grade of C- or better required in all required LATN, 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 students must have a GPA of 3.0 in their Latin Education major and an overall GPA of 2.75. See EDUC 400 for pre- and co-requisite examination requirements. Students must consult with the teacher education program coordinator (see list on p. 205) 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: RUSSIAN STUDIES

This concentration requires the choice of one of the following options: Language and Literature, Period Studies, Area Studies, Linguistics. Students must see their advisor or the Associate Chair of the department to choose one of these options. Specific requirements for these options can be viewed on-line at: www.fllt.udel.edu/lang/russianBA.html; paper copies are available at the department office, 326 Smith Hall.

CURRICULUM

See page 88 for University and College requirements.

MAJOR REQUIREMENTS
Twelve credits in RUSS electives at the 200-level and above 12
Twelve credits in RUSS literature at the 300 or 400-level (at least six credits must be at the 400-level) 12
FLIT 327 Topics: Russian Literature in Translation 3
FLIT 375 Topics: Russian and Soviet Culture in Translation 3

A total of nine credits at the 200-level or above, chosen with prior approval of the advisor and according to option requirements, from the following areas: Russian, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Linguistics, Music, Political Science.

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

CREDITS TO TOTAL A MINIMUM OF: 124

NOTE: See your advisor or the Associate Chair of the department for the specific program of study requirements. The majority of the specific course requirements are generally at the 300-400 level depending on the student's program of study option.

DEGREE: BACHELOR OF ARTS
MAJOR: FOREIGN LANGUAGES AND LITERATURES

CONCENTRATION: SPANISH STUDIES

Specific requirements for this concentration are described below. These requirements can also be viewed on-line at: www.fllt.udel.edu/lang/spanish/spanishBA.html
Paper copies are available at the department office, 326 Smith Hall.

CURRICULUM

See page 88 for University and College requirements.
### MAJOR REQUIREMENTS

14 courses (42 credits), as follows:

- **10 courses in Spanish:**
  - SPAN 200 3
  - SPAN 201 3
  - SPAN 300 3
  - Two of SPAN 301, 302, 303, 304, 370 6
  - One of SPAN 306, 325, 326 6
  - Two SPAN 400-level courses (language, literature, film, culture) 6

- **Four courses (12 credits) to be chosen from:**
  - SPAN 2xx, SPAN 207, SPAN 208, SPAN 3xx, SPAN 4xx, PORT 315, PORT 316, PORT 267, PORT 367
  - FLIT 202, any Flit course numbered 320-330, FLIT 475 (Literary Criticism)
  - POSC 311 (Principles of Developing Nations)
  - POSC 426 (Latin American Political Systems)
  - POSC 431 (Latin American Politics: Countries)
  - POSC 436 (Politics and Literature)
  - POSC 450 (Problems of Latin American Politics)
  - HIST 135 (Introduction to Latin American History)
  - HIST 331 (History of Caribbean I)
  - HIST 332 (History of Caribbean II)
  - HIST 334 (History of Mexico)
  - HIST 335 (History of Colonial Latin America)
  - HIST 348 (History of Spain: 1479-Present)
  - HIST 349 (Hispanic Societies: 1492-Present)
  - HIST 430 (Twentieth-Century Latin American Revolutions)
  - HIST 477 (Studies in Latin American History)
  - ANTH 265 (High Civilizations of the Americas)
  - ANTH 327 (Peoples of the Caribbean)
  - ANTH 337 (Peoples of the Caribbean)
  - ANTH 375 (Peoples and Cultures of Modern Latin America)
  - ANTH 380 (Peoples and Cultures of Mexico and Central America)

**NOTE:** Students wishing to pursue a linguistics option in Spanish Studies should consult their advisor or the Associate Chair of the department.

### 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 CREDITS

- See page 88 for University and College requirements.

#### MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 201</td>
<td>3</td>
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<tr>
<td>SPAN 207</td>
<td>3</td>
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<tr>
<td>SPAN 208</td>
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<td>SPAN 301</td>
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<td>SPAN 302</td>
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<td>SPAN 303</td>
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<td>SPAN 304</td>
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<td>SPAN 306</td>
<td>3</td>
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<tr>
<td>SPAN 400</td>
<td>3</td>
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<tr>
<td>Six credits in SPAN</td>
<td>6</td>
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<tr>
<td>EDJC 343</td>
<td>3</td>
</tr>
<tr>
<td>EDJC 412</td>
<td>3</td>
</tr>
<tr>
<td>EDJC 419</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: FOREIGN LANGUAGES AND LITERATURES CONCENTRATION: THREE LANGUAGES**

#### CURRICULUM CREDITS

- See page 88 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 (at least three credits at each level) 3
- 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 (at least three credits at each level) 3
- Three additional credits at the 400-level 3

**Third Language**

- Nine to twelve credits of third-language courses (at least three credits at each level) 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 6

#### ELECTIVES

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

#### CREDITS TO TOTAL A MINIMUM OF 124

### DEGREE: BACHELOR OF ARTS

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

#### CURRICULUM CREDITS

- See page 88 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 (at least three credits at each level) 3
- 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 (at least three credits at each level) 3
- Three additional credits at the 400-level 3

**Third Language**

- Nine to twelve credits of third-language courses (at least three credits at each level) 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 6

#### ELECTIVES

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

#### CREDITS TO TOTAL A MINIMUM OF 124
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], FLIT 316 [Mythology], FLIT 320/322/330 [Variable Topics, Genres, Periods, Authors] ................................. 6

Literature: Either 9 credits of Latin at the 200-level or above and 3 credits of Latin at the 300-level or above, or GREEK 213 and GREEK 214 and 6 credits of Latin at the 200-level or above .................................................. 12

**French**

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


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

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

**DEGREE:** BACHELOR OF ARTS

**MAJOR:** FRENCH, GERMAN, OR SPANISH/POLITICAL SCIENCE

**CURRICULUM**

**CREDITS**

See page 88 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.

POSC 150 The American Political System .................................................. 3

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.

**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:

**ANCIENT GREEK AND ROMAN STUDIES:** 18 credits as follows: 6 credits in Latin and/or Greek at the 200-level or above, 6 credits in FLIT courses focusing on the literature and/or culture of ancient Greece and Rome, at least one of which must be at the 300-level (e.g., FLIT 316 Gods, Heroes, and Monsters; FLIT 330 Roman Rule and Romance; FLIT 322 Greek Tragedy; FLIT 320 Biblical and Classical Literature, FLIT 320/330 Society and Spectacle in Ancient Greece and Rome; FLIT 322 Antiquity through Modern Eyes; FLIT 322 Greek Comedy, and 6 credits from related disciplines (at the 200-level or above, at least one of which must be at or above the 300-level) reflecting the students' particular interests in the classical world and selected with prior approval of the advisor (ANTH, ARTH, FLLT, HIST, LATIN, PHIL, POSC, THEA).

**CHINESE:** 18 credits including 15 credits in CHIN 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 China-related FLIT course.
FRENCH: 18 credits above the 100-level including FREN 211, FREN 301 and 302, one course at the 300- and 400-level, and one other 200- level course.

GERMAN: 18 credits above the 100-level including GRMN 311, one other 300-level, one four-course 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 208 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 MINORS: The Foreign Language Studies (FLS) minor (in French, German or Spanish) requires participation in a UD Department of Foreign Languages and Literatures sponsored semester abroad program. See the Foreign Languages and Literatures Study Abroad Coordinator for details and prerequisites. Credit requirements for the FLS minors are as follows:

FRENCH STUDIES MINOR
- FREN 2xx, 3xx, 4xx: 6
- FREN 306 or 406: 3
- FREN 308: 3

GERMAN STUDIES MINOR
- GRMN 2xx, 3xx, 4xx: 6
- GRMN 308 or 406: 3
- GRMN 309: 3

SPANISH STUDIES MINOR
- SPAN 2xx, 3xx, 4xx: 6
- SPAN 306 or 406: 3
- SPAN 308: 3

FRENCH CERTIFICATE COURSES (FRANCE OR MARTINIQUE)

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 3.000 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 COURSES (FRANCE OR MARTINIQUE)

- Study Abroad Session in Caen, France or Fort de France, Martinique: 3
  - FREN 206 Culture through Conversation
  - and one of the following:
    - FREN 207 Contemporary Caribbean World (Martinique)
    - FREN 208 Contemporary France I (France)

Delaware Campus:
- FREN 211 (or higher) French Reading and Composition: 3
- FREN 3xx: 3

GERMAN CERTIFICATE COURSES

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

Delaware Campus:
- GRMN 211 (or higher) German Reading and Composition: Short Fiction: 3
- GRMN 3xx: 3

ITALIAN CERTIFICATE COURSES

- Winter Session in Siena, Italy: 3
  - ITAL 206 Culture through Conversation
  - ITAL 208 Contemporary Italy

Delaware Campus:
- ITAL 211 (or higher) Italian Reading and Composition: Short Fiction: 3
- ITAL 3xx: 3

Alternate Plan for Italian Certificate

- Spring Semester in Siena: 9
  - plus one of the following, also taught abroad:
    - ARTH 339 Art and Architecture of Europe: 3
    - HIST 339 Topics in Modern European History: 3
    - POSC 441 Problems of Western European Politics by Country: 3

JAPANESE CERTIFICATE COURSES

- Study Abroad Session in Kobe, Japan: 3
  - JAPN 206 Culture through Conversation
  - JAPN 208 Contemporary Japan I

Delaware Campus:
- JAPN 200 (or higher) Japanese Grammar and Composition: 3
- JAPN 3xx: 3

SPANISH CERTIFICATE COURSES (SPAIN OR LATIN AMERICA)

- Study Abroad Session in Spain or Latin America: 3
  - SPAN 206 Culture through Conversation
  - SPAN 207 Contemporary Latin America I
  - SPAN 208 Contemporary Spain I

Delaware Campus:
- SPAN 201 (or higher, excluding 205) Spanish Reading and Composition: 3
- SPAN 3xx: 3
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, conservation, cultural-historical geography, urban geography, and geomorphology. Skills in Geographic Information Science (GIS), cartography, and spatial data analysis are also 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.

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

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

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 Physical 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 Sciences, 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

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
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</thead>
<tbody>
<tr>
<td>GEOG 106 Physical Geography: Land Surface Processes</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 152 Climate and Life</td>
<td>6</td>
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<tr>
<td>GEOG 220 Meteorology</td>
<td>3</td>
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<tr>
<td>GEOG 230 Humans and the Earth Ecosystem</td>
<td>3</td>
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<tr>
<td>GEOG 235 Conservation of Natural Resources</td>
<td>3</td>
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<tr>
<td>GEOG 255 Applied Climatology</td>
<td>3</td>
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<tr>
<td>GEOG 102 Human Geography</td>
<td>3</td>
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<tr>
<td>GEOG 120 World Regional Geography</td>
<td>3</td>
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<tr>
<td>GEOG 203 Cultural Geography</td>
<td>3</td>
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<tr>
<td>GEOG 210 Economic Geography</td>
<td>3</td>
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<tr>
<td>GEOG 225 Historical Geography of the United States</td>
<td>3</td>
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<tr>
<td>GEOG 236 Conservation: Global Issues</td>
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<tr>
<td>Two of the following human geography courses:</td>
<td>6</td>
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<tr>
<td>GEOG 210 Economic Geography</td>
<td>3</td>
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<tr>
<td>GEOG 225 Historical Geography of the United States</td>
<td>3</td>
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<tr>
<td>One of the following methods courses:</td>
<td>3</td>
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<tr>
<td>GEOG 250 Computer Methods in Geography</td>
<td>3</td>
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<tr>
<td>GEOG 270 Map Communication and Design</td>
<td>3</td>
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<tr>
<td>GEOG 272 Map and Air Photo Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>Nine credits selected from geography courses at the 300 or 400-level (GEOG 445 strongly recommended)</td>
<td>9</td>
</tr>
<tr>
<td>Six elective credits selected from geography courses at the 200, 300, or 400-level</td>
<td>6</td>
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</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: GEOGRAPHY EDUCATION

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</tr>
<tr>
<td>Six credits selected from geography courses at the 200, 300, or 400-level</td>
<td>6</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>POSC 150 The American Political System</td>
<td>3</td>
</tr>
<tr>
<td>HIST 104 World History II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 206 United States History since 1865</td>
<td>3</td>
</tr>
<tr>
<td>Nine credits selected from geography courses at the 300 or 400-level (GEOG 445 strongly recommended)</td>
<td>9</td>
</tr>
<tr>
<td>Additional credits as follows:</td>
<td>12</td>
</tr>
<tr>
<td>3 credits in ECON, 6 credits in POSC, 3 credits in HIST</td>
<td>12</td>
</tr>
</tbody>
</table>

See page 88 for University and College requirements.
EDUC 400  Student Teaching ........................................ 9
EDUC 430  Classroom Management ................................ 1

Grade of C- or better required in all required major, major related, and
professional studies courses.

To be eligible to student teach, Geography Education students must have a GPA of
3.0 in their major and an overall GPA of 2.75. They must also pass a teacher
capency test as established by the University Council on Teacher Education
Students must consult with the teacher education program coordinator (see list on
p. 205) 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 p. 45
of this catalog).
3. One of the courses used to satisfy the Geography major requirements must
be GEOG 445.

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 (Physical Geography, Human Geography, Methods). Nine
g 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 multiple-cultural, ethnic,
and/or gender-related course content (see p. 62-65) .................. 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 91-93.]

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 foreign language study. 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 p. 93-98)

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 ........................................ 4
BISC 207/208  Introductory Biology I and II ...................... 8
GEOG 220  Meteorology .............................................. 3
GEOG 250  Computer Methods in Geography ........................ 3
BISC 302  General Ecology .......................................... 4

GEOG 412  Physical Climatology .................................... 4
GEOG 303  Earth Surface I: Surficial Processes .................... 4
M AST 482  Introduction to Ocean Sciences ........................ 3
ENSC 450  Prasseminar in Environmental Science ................ 3

One course from among the following courses (GEOG 306 or GEOG 451 may be
applied to this field course requirement or to a concentration below, but not to both
simultaneously):

BISC 312  General Ecology Lab
GEOG 306  Earth's Lithosphere II: Field Geology
ENSC 425  Environmental Field Methods
GEOG 451  Micrometeorology
M AST 621  Coastal Field Biology
M AST 464  Marine Science Summer Internship (at least 3 credits)
M AST 468  Undergraduate Research (at least 3 credits)

Two additional courses from within one of the following three areas of
concentration: ......................................................... 68

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 300  Introduction to Microbiology
BISC 495  Evolution
BISC 637  Population Ecology
BISC 641  Microbial Ecology

Geological Environment

GEOG 300  Earth's Materials I: Minerals
GEOG 302  Earth's Materials II: Rocks
GEOG 304  Earth's Surface II: Stratigraphy
GEOG 305  Earth's Lithosphere II: Structural
GEOG 306  Earth's Lithosphere II: Field Geology
GEOG 307  Earth's History I: Paleobiology
GEOG 308  Earth's History II: Earth System Science

Marine Environment

ENWC/MAST 314  Comparative Terrestrial and Marine Ecology
GEOG 431  Marine Geology
GEOG 434  The Geology of Coasts
M AST 602  Physical Oceanography
M AST 621  Coastal Field Biology
M AST 627  Marine Biology
M AST 646  Chemical Oceanography

Two additional courses from the following list or from the courses listed
under the four areas of concentration above: ........................ 812

At least one course must be outside the chosen area of concentration:

BISC 301  Molecular Biology of the Cell
BISC 317  Tropical Ecology (Costa Rica)
BISC 321  Environmental Biology
BISC 660  Environmental Physiology
CHEM 213  Elementary Organic Chemistry
CIEG 331  Introduction to Environmental Engineering
ENWC 620  Behavioral Ecology of Insects
FREC 450  Topics in Environmental Law
GEOG 230  Humans and the Earth Ecosystem
GEOG 235  Conservation of Natural Resources
GEOG 236  Conservation: Global Issues
GEOG 255  Applied Climatology
GEOG 272  Map and Air Photo Interpretation
GEOG 320  Water and Society
GEOG 330  Biogeography
GEOG 357  Paleoclimatology
GEOG 372  Geographic Information Systems
GEOG 422  Resources, Development, and the Environment
GEOG 449  Environment and Society
GEOG 471  Advanced Geographic Information Systems
GEOG 474  Introduction to Environmental Remote Sensing
GEOG/MAST 681  Remote Sensing of the Environment
GEOG/GEOL 385  Geomorphology
GEOG 407  Igneous and Metamorphic Petrology
GEOG/GEOL 411  Fluvial Geomorphology
GEOG 412  Geographical Approaches to Archaeology and History
GEOG 414  Quaternary Geology and Geochronology

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MAJOR: GEOLOGY

GEOL 416 Paleocology
GEOL 421 Environmental and Applied Geology
GEOL 428 Hydrogeology
GEOL 446 General Geochronology
GEOL 451 Elementary Geophysics I
GEOL 453 Elementary Geophysics II
GEOL/GEOG 482 Physical Geography of Cold Environments
MATH 605 Ocean and Atmospheric Remote Sensing
MATH 620 Energy Policy and Administration
MATH 670 United States Ocean and Coastal Policy
MATH 671 Coastal Processes and Management
MATH 678 Coastal and Maritime Law
PHYS 209 Fundamentals of Physics II
PLSC 204 Introduction to Soil Science
POSZ 350 Politics and the Environment

With the exception of related work, all courses in the major require a grade of C- or better

MATH 241/242/243 Analytic Geometry and Calculus 12
CHEM 103/104 General Chemistry 8
PHYS 207 Fundamentals of Physics I 4
PHYS 201 Introductory Physics I

One of the following five courses:

MATH 302 Ordinary Differential Equations
MATH 349 Elementary Linear Algebra
MATH 450 Statistics for Engineering & Physical Sciences
STAT/ENSC 475 Statistics for Environmental Sciences
STAT 657 Statistics for Earth Sciences

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 105/115 Geological Hazards and their Human Impact and Laboratory
Note: GEOL 115 must be taken concurrently with GEOL 105
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
GEOL 307 Earth's History I: Paleobiology
GEOL 308 Earth's History II: Earth System Science
CHEM 103/104 General Chemistry
PHYS 201/202 Introductory Physics I

Mathematics courses through college-level trigonometry 3-4

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF SCIENCE
MAJOR: GEOLOGY

CURRICULUM CREDITS

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

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65) 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 91-93.

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 p. 93-98)
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

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
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
GEOL 307 Earth's History I: Paleobiology
GEOL 308 Earth's History II: Earth System Science
MATH 241/242 Analytic Geometry and Calculus
CHEM 103/104 General Chemistry
PHYS 201/202 Introductory Physics I and II

Geology Electives 9-10

(GEOL 385 or any 400-level or other GEOL courses approved in writing by department, including field courses taken as transfer work)
A minimum grade of C- is required for any GEOL courses that count for the major.

Two of the following:
- GEOL 250 Computer Methods in Geography
- GEOL 372 Geographic Information Systems
- GEOL 471 Advanced Geographic Information Systems
- FREC 480 Geographic Information Systems in Natural Resource Management
- MATH 243 Analytic Geometry and Calculus C
- MATH 302 Ordinary Differential Equations

Other courses as approved in writing.

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

CREDITS TO TOTAL A MINIMUM OF: 124

DEGREE: BACHELOR OF SCIENCE
MAJOR: GEOLOGY
CONCENTRATION: GEOPHYSICS

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

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

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-63) 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 80 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 91-93.)

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 p. 93-98
A total of eighteen credits from Groups A, B and C is required with six credits in each group. The six credits from each group could be from the same area:
Group A: Understanding and appreciation of the creative arts and humanities
Group B: The study of culture and institutions over time
Group C: Empirically based study of human beings and their environment

MAJOR REQUIREMENTS

Within the Department
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’s 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 453 Geophysics I 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 243 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
- GEOS 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

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

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-63) 3

COLLEGE REQUIREMENTS

Second Writing Course 3

Foreign Language: 0-12

BREADTH REQUIREMENTS

See page 88 for University and College requirements

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’s 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 405 Introduction to Research 3

Geology Electives 6
(See GEOL 385 or any 400-level GEOL or other GEOL courses approved in writing by the department, including field courses taken as transfer work)

BISC 207/208 Introductory Biology I and II 8
BISC 495 Evolution 3
CHEM 103/104 General Chemistry 8

One of the following 3
- BISC 302 General Ecology
- BISC 321 Environmental Biology

Two of the following 8
- BISC 303 Genetic and Evolutionary Biology
- BISC 371 Introduction to Microbiology
- BISC 480 Vertebrate Natural History

One of the following: 3
- MATH 210 Discrete Mathematics I
- MATH 230 Finite Mathematics with Applications
- MATH 241 Analytic Geometry and Calculus A 4
- MATH 203 Statistical Methods 4

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

CREDITS TO TOTAL A MINIMUM OF: 124

DEGREE: BACHELOR OF SCIENCE
MAJOR: GEOLOGY
CONCENTRATION: COASTAL AND MARINE GEOSCIENCE

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

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

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-63) 3

COLLEGE REQUIREMENTS

Second Writing Course 3

Foreign Language: 0-12

BREADTH REQUIREMENTS

See page 88 for University and College requirements

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’s 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
MATH 405 Introduction to Research 3

Geology Electives 6
(See GEOL 385 or any 400-level GEOL or other GEOL courses approved in writing by the department, including field courses taken as transfer work)

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BISC 495 Evolution 3
CHEM 103/104 General Chemistry 8

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One of the following: 3
- MATH 210 Discrete Mathematics I
- MATH 230 Finite Mathematics with Applications
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ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirements for the degree.

CREDITS TO TOTAL A MINIMUM OF: 125
MAJOR REQUIREMENTS

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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 431 Marine Geology 3
GEOL 434 Geology of Coasts 3
BISC 207/208 Introductory Biology I and II 8
CHEM 103/104 General Chemistry 8
ENVC/MAST 214 Comparative terrestrial and Marine Ecology 3
MATH 241/242 Analytic Geometry and Calculus I and II 8
MAST 482 Introduction to Ocean Sciences 3
PHYS 201/202 Introductory Physics I and II 8

Six credits from the following list of courses or any other courses approved in writing by the Department

MAST 366 or 466 Independent Study 6
MRL 468 Undergraduate Research 3
MAST 602 Physical Oceanography 3
MAST 606 Ocean and Atmosphere Remote Sensing 3
MAST 627 Marine Biology 3
MAST 637 Geological Oceanography 3
MAST 646 Chemical Oceanography 3
GEOG/MAST 681 Remote Sensing of Environment 3

CREDITS TO TOTAL A MINIMUM OF: 125

MINOR IN GEOLOGY

The minor consists of at least 18 credit hours in geology. The requirements are:

GEOL 107 or GEOL 105 and 115, or GEOL 113; plus additional courses at the 300-400-level to obtain the remaining credits to reach a total of 18

For Environmental Science majors, the requirements for the minor in Geology are GEOL 107, or GEOL 105 and 115, or GEOL 113; GEOL 303; at least one other GEOL course at the 300-level; plus additional courses at the 300- and 400-level to obtain the remaining credits to reach a total of 18

MINOR IN COASTAL AND MARINE GEOSCIENCE

A minimum of 18 credits of course work in Coastal and Marine Geoscience must be completed for a minor. The following courses are required (within the stated options); others can be added (as listed below) to obtain additional credits in related disciplines

CURIUM CREDITS

GEOL 107 General Geology 4
GEOL 105 or 115 Geological Hazards 4
GEOL 113 Earth Science 4

At least one full year sequence of 300-level courses

e.g. 300-302, 303-304, 305-306, or 307-308 8

MAST 482 Introduction to Ocean Sciences 3
GEOL 431 Marine Geology 3

TOTAL CREDITS 18

DEGREE: BACHELOR OF ARTS
MAJOR: EARTH SCIENCE EDUCATION

CURIUM CREDITS

See page 88 for University and College requirements

MAJOR REQUIREMENTS

GEOL 105/115 Geologic Hazards and their Human Impact and Laboratory 4
GEOL 107 General Geology 4
GEOL 300 Earth’s Materials I: Minerals 4
GEOL 303 Earth’s Surface I: Surficial Processes 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 431 Marine Geology 3
GEOL 434 Geology of Coasts 3
BISC 207/208 Introductory Biology I and II 8
CHEM 103/104 General Chemistry 8
ENVC/MAST 214 Comparative terrestrial and Marine Ecology 3
MATH 241/242 Analytic Geometry and Calculus I and II 8
MAST 482 Introduction to Ocean Sciences 3
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MAST 627 Marine Biology 3
MAST 637 Geological Oceanography 3
MAST 646 Chemical Oceanography 3
GEOG/MAST 681 Remote Sensing of Environment 3

CREDITS TO TOTAL A MINIMUM OF: 125

HISTORY

Telephone: (302) 831-2371
www.udel.edu/History/hist/

The History Department offers several options to its undergraduate students. In addition to the regular major, students can choose a concentration in American, European, Global, or Policy history. In conjunction with the College of Human Services, Education and Public Policy, it offers a History Education program for those choosing careers as secondary school social studies teachers. Collaboration with the Department of Foreign Languages and Literatures has resulted in a major combining languages with the history of the regions in which those languages are spoken. Together with the Department of English, the History Department administers a History/Journalism concentration. Honors Degree options are available for all majors and concentrations. The department also maintains an advisory program for prelaw students majoring in history.

The department encourages interdepartmental or double majors that enable a student to develop competence in two areas, such as history and art history, or history and literature. A Degree with Distinction is also possible. An advisor in the History Department can provide details.

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY

CURIUM CREDITS

See page 88 for University and College requirements

MAJOR REQUIREMENTS

HIST 101 Western Civilization to 1648 3
HIST 102 Western Civilization: 1648 to the Present 3
HIST 265 Seminar 3
History course on the history of Asia, Africa, Latin America, Middle East, or the Ancient World 3
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 268 Seminar</td>
<td>3</td>
</tr>
<tr>
<td>History course on the history of Asia, Africa, Latin America, Middle East, or the Ancient World</td>
<td>3</td>
</tr>
<tr>
<td>Seven courses (7) in the field of emphasis, four of which must be History courses at of above the 300 level. With written approval of the advisor, a student may take two of the seven courses outside the Department</td>
<td>21</td>
</tr>
<tr>
<td>History seminar at the 400 level or above (excluding HIST 491 and 493 and Independent Study)</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:** GLOBAL HISTORY

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>HIST 101 Western Civilization to 1648</td>
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<tr>
<td>HIST 102 Western Civilization: 1648 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 268 Seminar</td>
<td>3</td>
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<td>3</td>
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**ELECTIVES**

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

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

**DEGREE: BACHELOR OF ARTS**

**MAJOR:** HISTORY

**CONCENTRATION:** POLICY HISTORY

<table>
<thead>
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<td>HIST 101 Western Civilization to 1648</td>
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</tr>
<tr>
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</tr>
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</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:** JOURNALISM

<table>
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</tr>
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<td>3</td>
</tr>
<tr>
<td>History courses at or above the 300 level</td>
<td>12</td>
</tr>
<tr>
<td>History seminar at the 400 level or above (excluding HIST 491 and 493 and Independent Study)</td>
<td>3</td>
</tr>
<tr>
<td>History course</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 307 News Writing and Editing</td>
<td>3</td>
</tr>
<tr>
<td>Nine credits chosen from the following courses:</td>
<td>9</td>
</tr>
<tr>
<td>ENGL 308 Reporter's Practicum</td>
<td></td>
</tr>
<tr>
<td>ENGL 309 Feature and Magazine Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 310 Copy Editing and Layout</td>
<td></td>
</tr>
<tr>
<td>ENGL 407 Advanced Reporting</td>
<td></td>
</tr>
<tr>
<td>ENGL 408 Sports Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 409 Topics in Journalism</td>
<td></td>
</tr>
<tr>
<td>ENGL 465 Independent Study</td>
<td></td>
</tr>
</tbody>
</table>
ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF: 124

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY EDUCATION

CURRICULUM CREDITS

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
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<td>3</td>
</tr>
<tr>
<td>HIST 103</td>
<td>World History I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 104</td>
<td>World History II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 268</td>
<td>Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

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

History courses on the history of Europe | 6 |
History courses on the history of the United States | 12 |
History courses on the history of Asia, Africa, or Latin America, Middle East, and European History | 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 |
POS C 150 | 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 | Adolescent Development and Educational Psychology | 4 |
EDUC 414 | Teaching Exceptional Adolescents | 3 |
EDUC 419 | Diversity in Secondary Education | 3 |
HIST 491 | Planning a Course of Instruction (fall semester only) | 3 |
HIST 492 | Seminar: Social Sciences (spring semester only) | 3 |
EDUC 420 | Reading in the Content Areas | 1 |
EDUC 421 | Student Teaching (spring semester only) | 9 |
EDUC 430 | Classroom Management | 1 |

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

To be eligible to student teach, History Education students must have a GPA of 3.0 in their major and an overall GPA of 2.75. They must also pass a teacher competency test as established by the University Council on Teacher Education and complete a learning portfolio. Students must consult with the teacher education program coordinator (see list on p. 205) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF: 124

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

CURRICULUM CREDITS

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

<table>
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<td>World History II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 268</td>
<td>Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HIST 291</td>
<td>History seminar at the 400-level or above</td>
<td>3</td>
</tr>
</tbody>
</table>

Five 300-level courses, at least two of which must deal with countries that use the chosen foreign language

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., FLLT 202 (Biblical and Classical Literature) and FLLT 316 (Mythology) | 6 |

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 |

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 |

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 |

Literature: FREN 301 (Introduction to French Literature: Prose) and FREN 302 (Introduction to French Literature: Poetry and Theatre) | 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 |

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 |

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

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

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) | 3 |

Literature: SPAN 301 (Survey of Spanish Literature) and SPAN 302 (Survey of Spanish Literature) | 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 |

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

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 p. 45 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.

MINOR IN HISTORY

A student may minor in history by taking 15 credits as follows:

Any two of the following: | 6 |
HIST 101 | Western Civilization to 1648 | 3 |
HIST 102 | Western Civilization: 1648 to the Present | 3 |
HIST 103 | World History I | 3 |
HIST 104 | World History II | 3 |
HIST 201 | United States History | 3 |
HIST 205 | United States History | 3 |

Three HIST courses at or above the 300 level (excluding HIST 491 and 493) | 9 |

Many history courses fulfill Group B requirements of the College of Arts and Sciences.
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 John Montano at (302) 831-0804 or Professor Kevin Kerrane at (302) 831-8992.

JEWS STUDIES
 Telephone: (302) 831-3324
E-mail: cjs@udel.edu
www.udel.edu/jsp/index.html

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.

MINOR IN JEWISH STUDIES
The interdisciplinary minor in Jewish Studies requires 16 credits. Students must take a minimum of 16 credits from the selection of Jewish Studies courses offered by the Jewish Studies Program (JWST) or cross-listed with another department. The one credit course, JWST 201: Issues and Ideas in Jewish Studies, is the only course required for the minor. Jewish Studies courses are cross-listed with a number of departments including philosophy, English, sociology, history, political science, anthropology and foreign languages. Only 3 credits of Hebrew language and only 3 credits from courses offered during Israel winter session can be counted toward the minor. Three credits of independent course credit can be counted, with approval of the Director of the Jewish Studies Program.

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, History, and Political Science majors. Students majoring in other areas such as communication often take journalism courses to enhance their degree programs. The journalism courses are primarily practice-oriented and are aimed at preparing the interested student 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
http://www.udel.edu/ares/latexam.html
Latin American Advisor: Dr. Cynthia Schmidt-Cruz,
433 Smith Hall. Phone: 302-831-0439. Email: csc@udel.edu

The Latin American Studies Program offers both a major and minor designed to prepare undergraduate students for careers relating to Latin America. This interdisciplinary program provides students with comprehensive training in Spanish language as well as Latin American literature, history, politics, geography and anthropology.

Many career opportunities are open to students who major in Latin American Studies. Because of their linguistic training and in-depth knowledge of the area, graduates of the program often find employment in government, including the foreign services, as well as in international business and banking, social work, educational organizations and non-governmental organizations that work extensively in Latin America. In addition, graduates are well prepared to pursue advanced degrees in Latin American Studies.

DEGREE: BACHELOR OF ARTS
MAJOR: LATIN AMERICAN STUDIES
CURRICULUM
See page 88 for University and College requirements

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 265</td>
<td>High Civilizations in the Americas</td>
<td>3</td>
</tr>
<tr>
<td>GEGO 226</td>
<td>Geography of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 335</td>
<td>Introduction to Latin American History</td>
<td>3</td>
</tr>
<tr>
<td>POSC 426</td>
<td>Latin American Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 326</td>
<td>Latin American Civilization and Culture</td>
<td>3</td>
</tr>
<tr>
<td>One of the following six courses:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ANTH 255</td>
<td>Ethnic Arts</td>
<td></td>
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<tr>
<td>ANTH 233</td>
<td>Prehistory of South America</td>
<td></td>
</tr>
<tr>
<td>ANTH 237</td>
<td>South American Indians</td>
<td></td>
</tr>
<tr>
<td>ANTH 238</td>
<td>Arts and Crafts of Native South America</td>
<td></td>
</tr>
<tr>
<td>ANTH 375</td>
<td>Peoples and Cultures of Modern Latin America</td>
<td></td>
</tr>
<tr>
<td>ANTH 380</td>
<td>Peoples and Cultures of Mexico and Central America</td>
<td></td>
</tr>
<tr>
<td>One of the following six courses:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HIST 332/BAMS 331</td>
<td>History of the Caribbean I</td>
<td></td>
</tr>
<tr>
<td>HIST 332/BAMS 332</td>
<td>History of the Caribbean II</td>
<td></td>
</tr>
<tr>
<td>HIST 349</td>
<td>Modern Hispanic Societies: 1800-present</td>
<td></td>
</tr>
<tr>
<td>HIST 336</td>
<td>Topics in Latin American History</td>
<td></td>
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<tr>
<td>HIST 430</td>
<td>Twentieth Century Latin American Revolutions</td>
<td></td>
</tr>
<tr>
<td>HIST 477</td>
<td>Studies in Latin American History</td>
<td></td>
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<tr>
<td>One of the following two courses:</td>
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<td>3</td>
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<tr>
<td>POSC 431</td>
<td>Latin American Politics: Countries</td>
<td></td>
</tr>
<tr>
<td>POSC 450</td>
<td>Problems in Latin American Politics</td>
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<tr>
<td>One of the following eleven courses:</td>
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<tr>
<td>SPAN 303</td>
<td>Survey of Spanish-American Literature I</td>
<td></td>
</tr>
<tr>
<td>SPAN 304</td>
<td>Survey of Spanish-American Literature II</td>
<td></td>
</tr>
<tr>
<td>SPAN 415</td>
<td>Latin American Literature in its Political Context</td>
<td></td>
</tr>
<tr>
<td>SPAN 430</td>
<td>Latin American Novel and Cinema</td>
<td></td>
</tr>
<tr>
<td>SPAN 440*</td>
<td>Topics: Eighteenth and Nineteenth Century Hispanic Literature</td>
<td></td>
</tr>
<tr>
<td>SPAN 447</td>
<td>Contemporary Hispanic Fiction by Women</td>
<td></td>
</tr>
<tr>
<td>SPAN 455*</td>
<td>Selected Authors, Works and Themes</td>
<td></td>
</tr>
<tr>
<td>SPAN 460*</td>
<td>Topics: Contemporary Hispanic Literature 1936-Present</td>
<td></td>
</tr>
<tr>
<td>SPAN 462*</td>
<td>Topics: Hispanic Short Fiction</td>
<td></td>
</tr>
<tr>
<td>SPAN 464</td>
<td>Contemporary Spanish American Literature by Women</td>
<td></td>
</tr>
<tr>
<td>SPAN 475*</td>
<td>Topics: Hispanic Culture and Civilization</td>
<td></td>
</tr>
</tbody>
</table>

*When topic deals with Latin America

Two additional courses selected from the courses listed above or from the following: | 6 |
| ARTH 332    | Art of Latin America                             |         |
| ARTH 338    | Mayan Art and Architecture                       |         |
| ARTH 419    | Seminar in Spanish Art of the Golden Age        |         |
| ARTH 440    | Seminar in Latin American Art                    |         |
| ECON 311    | Economics of Developing Countries (Prerequisites: ECON 151, ECON 152) | | |
| PORT 208    | Contemporary Brazil                              |         |
| PORT 315    | Intensive Portuguese for Spanish Speakers        |         |
| SPAN 297    | Contemporary Latin America                       |         |
| SPAN 254    | Latin America in the News                        |         |
| WOMS 250    | Topics in International Women's Studies: Latin America | | |

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.

Language Requirement
In addition to the 33 credits required of the major, students must complete SPAN 201 or demonstrate equivalent proficiency. Course work in Portuguese is also recommended.

Study Abroad
Study abroad at a Latin American site for either a semester, or a winter or summer session, is highly recommended. The Costa Rica spring semester is designed for Latin American Studies majors and minors.
Advisement and substitutions
In selecting courses for the major, students are encouraged to meet with the Latin American Studies advisor and choose courses that together reflect a regional (e.g., Mexico, Caribbean, Central or South America) or topical (e.g., colonialism, development, culture) focus. Substitutions for specified courses may be made with permission of the Director of Latin American Studies so long as the same disciplinary distribution is maintained.

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

HONORS BACHELOR OF ARTS:
LATIN AMERICAN STUDIES

All Honors degree candidates must complete the following:
1 All requirements for the B.A. in Latin American Studies
2 All of the University’s generic requirements for the Honors Baccalaureate degree (see page 45 of this catalog)

MINOR IN LATIN AMERICAN STUDIES

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

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

- HIST 135, 336, 430, 477
- GEOG 226
- SPAN 203, 304, 326, 415, 430, 464
- ANTH 265, 323, 337, 338, 375, 380
- ARTH 232, 419, 440
- PORT 208, 315
- POSC 426, 431, 450

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

Study Abroad
Study abroad at a Latin American site for either a semester, or a winter or summer session, is highly recommended. The Costa Rica spring semester is designed for Latin American Studies majors and minors.

Advisement and substitutions
Substitutions for specified courses may be made with permission of the Director of Latin American Studies so long as the same disciplinary distribution is maintained.

LEGAL STUDIES

Director: Professor Sheldon D. Pollack
Administrator: Maryanne Brown-MacKay
Office: 219 McDowell Hall
Telephone: (302) 831-0367
Web: www.udel.edu/Legal Studies/
Email: legal-studies@udel.edu

The minor in Legal Studies provides undergraduate students with the opportunity to explore the law from an interdisciplinary perspective. The law is central to theories and research in the social sciences, business, philosophy, and public policy. Courses concerned with law are available in a variety of departments including political science, sociology, communication, economics, history, accounting (business law), finance (corporate governance), food and resource economics (environmental law), marine studies, philosophy, (jurisprudence), education and urban affairs.

The minor program provides coherence and guidance in the study of law in at least four ways. First, each student minoring in Legal Studies is provided with an advisor who guides the student in constructing a coherent program. Second, the minor provides students with an opportunity to examine the law 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 capstone experience with a senior seminar that requires a research paper.

This program is designed for any student who is interested in examining the law and its influence on society from a variety of perspectives. Legal studies is not a "pre-law" program, and it does not offer para-legal training. However, the program is a suitable minor for those who plan to pursue professional training. For information on Pre-Law Advisement, see page 90.

In addition to offering a minor in Legal Studies, the program sponsors faculty seminars, a lecture series in the law, a student conference and research paper competition, and films.

MINOR IN LEGAL STUDIES

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEST 301 Introduction to Legal Studies</td>
<td>3</td>
</tr>
<tr>
<td>(same as CRJU 301)</td>
<td></td>
</tr>
<tr>
<td>LEST 380 Introduction to Law</td>
<td>3</td>
</tr>
<tr>
<td>(same as POSC 380)</td>
<td></td>
</tr>
<tr>
<td>LEST 401 Senior Seminar in Legal Studies</td>
<td>3</td>
</tr>
<tr>
<td>(or substitute approved by the Director of LEST)</td>
<td></td>
</tr>
<tr>
<td>Three electives selected from the following list No more than one of the three electives may be: (a) required by the student’s major, or (b) offered by the student’s major department; and the student must take elective courses from at least two different departments outside the student’s major</td>
<td></td>
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<tr>
<td>Accounting</td>
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<tr>
<td>ACCT 350 Business Law</td>
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<tr>
<td>ACCT 351 Business Law</td>
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<tr>
<td>ACCT 352 Law and Social Issues in Business</td>
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<tr>
<td>Communication</td>
<td></td>
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<tr>
<td>COMM 345 Legal Issues of the Mass Media</td>
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<tr>
<td>(same as LEST 345)</td>
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<tr>
<td>Criminal Justice</td>
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<tr>
<td>CRJU 202 Problems of Criminal Judiciary</td>
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<tr>
<td>CRJU 203 Problems of Corrections</td>
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<tr>
<td>CRJU 301 Introduction to Legal Studies</td>
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<tr>
<td>(same as LEST 301)</td>
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<tr>
<td>CRJU 311 Capital Punishment and the Law</td>
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<tr>
<td>CRJU 320 Introduction to Criminal Law</td>
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<tr>
<td>CRJU 324 American Constitutional History</td>
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<tr>
<td>(same as HIST 324)</td>
<td></td>
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<tr>
<td>CRJU 345 Sociology of Law</td>
<td></td>
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<tr>
<td>(same as SOCI 345)</td>
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<tr>
<td>CRJU 346 Psychology and the Law</td>
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<tr>
<td>(same as PSYC 346)</td>
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<tr>
<td>CRJU 375 Criminal Procedure</td>
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<tr>
<td>CRJU 425 Criminal Law and Social Policy</td>
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<tr>
<td>CRJU 428 Corporate Crime</td>
<td></td>
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<tr>
<td>(same as SOCI 428)</td>
<td></td>
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<tr>
<td>CRJU 435 Punishing Speech</td>
<td></td>
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<tr>
<td>CRJU 446** Judging the Jury</td>
<td></td>
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<tr>
<td>CRJU 450 Prisoners and the Law</td>
<td></td>
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<tr>
<td>CRJU 456 Lawyers and Society</td>
<td></td>
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<tr>
<td>(same as SOCI 456)</td>
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<tr>
<td>CRJU 457 Criminal Evidence</td>
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<tr>
<td>CRJU 475** Social Science and the Law</td>
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<tr>
<td>(same as LEST 475)</td>
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<tr>
<td>Economics</td>
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<tr>
<td>ECON 306 Economic Theory of Politics</td>
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<tr>
<td>(same as POSC 306)</td>
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<tr>
<td>ECON 360 Government Regulation of Business</td>
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<tr>
<td>ECON 408 Economics of Law</td>
<td></td>
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<tr>
<td>(same as LEST 408)</td>
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<tr>
<td>ECON 461 Industrial Organization and Antitrust</td>
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<tr>
<td>ECON 463 Economics of Regulation</td>
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<tr>
<td>Education</td>
<td></td>
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<tr>
<td>EDUC 240 Professional Issues: Philosophical and Legal Perspectives</td>
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<tr>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>FINC 418 Seminar in Corporate Governance</td>
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</tr>
</tbody>
</table>
**UNDERGRADUATE ARTS AND SCIENCES**

**Food and Resource Economics**

- FREC 450**  Topics in Environmental Law
  (same as LEST 450)

**Health, Nutrition, and Exercise Sciences**

- HESC 347  Legal Aspects of Sport Management

**History**

- HIST 309  U.S. Business and Political Economy
- HIST 324  American Constitutional History
  (same as CRJU 324)
- HIST 479  Law and Social Change in Modern Japan

**Legal Studies**

- LEST 210  The Law and You
- LEST 301  Introduction to Legal Studies
  (same as CRJU 301)
- LEST 345  Legal Issues of the Mass Media
  (same as COMM 345)
- LEST 380  Intro to Law
  (same as POSC 380)
- LEST 383  Language Power and the Law
  (same as LING 383)
- LEST 385  Language and the Law: Corporate Interpretation
  (same as LING 385)
- LEST 401  Legal Studies Senior Seminar
- LEST 408  Economics of Law
  (same as ECON 408)
- LEST 450**  Topics in Environmental Law
  (same as FREC 450)
- LEST 475**  Social Science and the Law
  (same as CRJU 475)
- LEST 646  Administrative Law and Policy
  (same as UAPP 646)
- LEST 649  Civil Rights Law and Policy
  (same as UAPP 649)
- LEST 673  International Law
  (same as MAST 673, POSC 604)

**Linguistics**

- LING 383  Language Power and the Law
  (same as LEST 383)
- LING 385  Language and the Law: Corporate Interpretation
  (same as LEST 385)

**Marine Studies**

- MAST 673  International Law
  (same as LEST 673, POSC 604)
- MAST 674**  Legal Aspects of the Coastal Zone
- MAST 678  Admiralty and Maritime Law
  (same as UAPP 649)

**Philosophy**

- PHIL 202  Contemporary Moral Problems
- PHIL 446  Philosophy of Law

**Political Science and International Relations**

- POSC 306  Economic Theory of Politics
  (same as ECON 306)
- POSC 380  Intro to Law
  (same as LEST 380)
- POSC 401**  Topics in Constitutional Law
- POSC 402**  Civil Liberties: Individual Freedoms
- POSC 403**  Civil Liberties: Equal Protection
- POSC 404**  Judicial Process
- POSC 405**  Constitutional Law of the United States
- POSC 604**  International Law
  (same as LEST 673, MAST 673)
- POSC 805**  Seminar in Public Law: Law and Courts in the Global Order

**Psychology**

- PSYC 346  Psychology and the Law
  (same as CRJU 346)

**Sociology**

- SOCI 330  Population, Law and Society
- SOCI 345  Sociology of Law
  (same as CRJU 345)
- SOCI 428  Corporate Crime
  (same as CRJU 428)
- SOCI 456  Lawyers and Society
  (same as CRJU 456)
- SOCI 655**  Law and Society
- SOCI 658**  Social Science, Law and the Legal Process

**Urban Affairs and Public Policy**

- UAPP 646  Administrative Law and Policy
  (same as LEST 646)
- UAPP 649  Civil Rights Law and Policy
  (same as LEST 649)
- UAPP 678  Admiralty and Maritime Law
  (same as MAST 678)

**Courses that qualify as substitutes for LEST 401 (Senior Seminar); other courses may also qualify. All substitutions must be approved by the Director of Legal Studies.**

**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 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 standard degree options. A minimum of 39 credit hours must be related to the main theme of the B.A.L.S. project and a minimum grade of C- must be earned in these core courses. Course templates are available for students interested in creating programs in Classical Studies, and in selected other areas. Students who are accepted into the Medical Scholars program complete a major in Liberal Studies using the Medical Scholars template.

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 Associate Dean of the College of Arts and Sciences by October 15 or by March 15. Application forms and further information are available on the web at: [www.art-sci.udel.edu/](http://www.art-sci.udel.edu/)

**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 45 of this catalog)
3. The student’s B A L S advisor will designate Honors Courses that will count as courses in the major.

**LINGUISTICS AND COGNITIVE SCIENCE**

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

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
MINOR IN LINGUISTICS

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

- LING 101 Introduction to Linguistics 3
- One of the following: 3
  - LING 407 Phonology I
  - LING 409 Syntax I
  - LING 477 Structure of English
  - LING 491 Semantics I

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

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

MINOR IN COGNITIVE SCIENCE

For more information, contact the Department of Linguistics. Telephone: (302) 831-6806 Website: http://www.ling.udel.edu/cogsci

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:** 9
  - CGSC 270 Introduction to Cognitive Science
  - LING 101 Introduction to Linguistics
  - PSYC 100 General Psychology

- **B. One of the following:** 3
  - CISC 105 General Computer Science
  - CISC 106 General Computer Science for Engineers
  - CISC 181 Introduction to Computer Science

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

- **D. One of the following:** 3
  - PSYC 310 Sensation & Perception (prereq: PSYC 309)
  - CGSC 314 Brain & Behavior
  - CGSC 220 Data Structures (prereq: CISC 181)
  - CGSC 481 Artificial Intelligence (prereq: CGSC 220 & 310)
  - PHIL 205 Logic
  - EDUC 462 Language Acquisition
  - LING 610 Syntax II (prereq: LING 409)

or any of the courses not chosen under **C**

No more than 3 courses may be from a single department

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.

MATHEMATICAL SCIENCES

Telephone: (302) 831-2653
www.math.udel.edu/

The Department of Mathematical Sciences administers major programs in Mathematical Sciences leading to the Bachelor of Arts or the Bachelor of Science, as well as a major program in Mathematics Education leading to the Bachelor of Arts for those students preparing for careers teaching secondary school mathematics. A minor in mathematics is also available. The Department also participates in B.S. degree program in Mathematics and Economics (see separate listing in this chapter).

The Department of Mathematical Sciences also provides courses for others who need to use mathematics and statistics in their careers, be it engineering, science, medicine, or management.

Since mathematics is a highly structured discipline, careful attention must be paid to prerequisites. A successful mathematical sciences major must complete several courses in the major each year to graduate within a reasonable time frame. The Department of Mathematical Sciences carefully monitors student progress and will drop from the major any student not making satisfactory progress in the program. A normally matriculated student majoring in the Department of Mathematical Sciences is not making satisfactory progress if he or she: (1) has not successfully completed a required Mathematical Science course by the beginning of the third semester; or (2) has not successfully completed MATH 245 by the end of the fourth semester; or (3) has failed to successfully complete any required Mathematical Science course for two consecutive semesters.

Consistent with the program requirements, "successfully complete" means to earn a grade of C- or better. A student not making satisfactory progress may petition the department to remain as a major when there are extenuating circumstances.

Departmental requirements and course descriptions are subject to continual revision. Up-to-date statements of requirements, course descriptions, and departmental policies are available at the departmental office or its website.
COURSES FOR OTHER MAJORS

The three-semester calculus sequence MATH 241-242-243 is the traditional basis for programs in the physical sciences and engineering. Students with a sound preparation in calculus are encouraged to enroll in MATH 242 to avoid repetition of known material. Students with advanced placement are automatically placed in MATH 242, and others should follow the advice given during 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. MATH 113 may not be appropriate for some majors. Students should check with their department advisor for the correct mathematics requirement.

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 88 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 268 Perspectives on Mathematics .......... 1
- MATH 302 Ordinary Differential Equations .......... 3
- MATH 349 Elementary Linear Algebra .......... 3
- MATH 350 Probability Theory and Simulation Methods .......... 3

Nine credits of mathematics at the 300 level or above: MATH 308, MATH 379, MATH 380, and MATH 382 are not applicable .......... 9

- ENGL 312 Written Communications in Business .......... 3
- CISC 181 Introduction to Computer Science .......... 3
- CISC 220 Data Structures .......... 3

[Students with no previous experience in a programming language should start with CISC 105]

Any substitution 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 credits 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 Bachelor of Arts degree (see page 45 of this catalog).

All Mathematics 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 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

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 course content (see pp. 62-65) .......... 3

COLLEGE REQUIREMENTS

- Writing: (minimum grade C) .......... 3
- ENGL 312 Written Communications in Business or ENGL 410 Technical Writing

Foreign language: 0-1

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

A total of eighteen 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: ..... 6

- Group B: ..... 6
- Group C: ..... 6

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.

Part A

- 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 268 Perspectives on Mathematics .......... 1
- MATH 302 Ordinary Differential Equations .......... 3
- MATH 349 Elementary Linear Algebra .......... 3
- MATH 350 Probability Theory and Simulation Methods .......... 3
- MATH 512 Contemporary Applications of Mathematics .......... 3

Part B

Choose three out of the following six courses .......... 9

- MATH 315 Discrete Mathematics II
- MATH 401 Introduction to Real Analysis
- MATH 426 Numerical Analysis and Algorithmic Computation
- MATH 450 Mathematical Statistics
- MATH 451 Abstract Algebra I
- MATH 535 Introduction to Partial Differential Equations

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ARTS AND SCIENCES

Part C
Fifteen additional credits in mathematics or in related disciplines at the 300 level or above
At least six of these additional credits have to be from Mathematical Sciences.
MATH 308, MATH 379, MATH 380, and MATH 382 are not applicable.
A maximum of nine credits in this Part C may be chosen from an approved list of
courses in Computer Science, Economics, Physics or Statistics. The approved list
of courses will be determined by the department Undergraduate Studies
Committee and will be posted on the department website.

Two semester sequence of laboratory science 8
[For each course designed for non-majors in a discipline are not appropriate]
CISC 181 Introduction to Computer Science 3
and
CISC 220 Data Structures 3
[Students with no previous experience in a programming language should start
with CISC 105]

Any substitution 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 ............... 124

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 45 of this catalog)
All Mathematics 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 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

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 course content (see p. 62-65) 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
Foreign Language: 0-12
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 by
taking an exemption examination

BREADTH REQUIREMENTS (See page 93-98)

Group A 12
Group B 9
Group C 9
Group D 13

MAJOR REQUIREMENTS

A grade of C- or better is required for major courses and EDUC 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 243 An Introduction to Proof 3
MATH 308 Historical Development of Mathematical Concepts and Ideas 3
MATH 349 Elementary Linear Algebra 3
MATH 350 Probability Theory and Simulation Methods 3
MATH 450 Mathematical Statistics 3
MATH 451 Abstract Algebra I 3
MATH 518 Mathematical Models and Applications 3
or
Another Modeling course
MATH 540 Geometry 3

One of the following Mathematics Courses 3
MATH 302 Ordinary Differential Equations
MATH 315 Discrete Mathematics II
MATH 401 Introduction to Real Analysis
MATH 508 Introduction to Complex Variables

One of the following Computer Science Courses 3

CISC 181 Introduction to Computer Science
CISC 105 General Computer Science

PHYS 207 Introductory Physics I 4
ENGL 312 Written Communications in Business 3
MATH 379 Problem Solving Strategies I 1
MATH 379 Problem Solving Strategies 1
MATH 380 Approaches to Teaching Mathematics 3
MATH 382 Student Teaching Seminar: Secondary Math 2
EDUC 400 Student Teaching 9
EDUC 413 Adolescent Development and Educational Psychology 4
EDUC 414 Teaching Exceptional Adolescents 3
EDUC 419 Diversity in Secondary Education 3
EDUC 420 Reading in the Content Areas 1
EDUC 450 Classroom Management in Secondary Schools 1

To be eligible to student teach, Mathematics Education students must have a GPA
of 2.5 in their mathematics major and an overall GPA of 2.5. They must also pass
a teacher competency test as established by the University Council on Teacher
Education. Remaining in the program is subject to periodic review of satisfactory
progress and, to be admitted to EDUC 400 Student Teaching, students must have
completed all the mathematics courses required in the secondary mathematics
education program. Students should consult the teacher education program
coordinator (see list on p. 190) 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, with 79 credits outside of
Mathematics.

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 45 of this catalog)
All Mathematics 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 courses at the 600-level or
higher may be counted toward the same 12 credit Honors course requirement.

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
determining toward a 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 MATH 300 or MATH 450 may be counted toward the 18 credits in MATH
courses required for the mathematics minor. 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, 382) may not be counted toward the minor.

**MATHEMATICS AND ECONOMICS**

The College of Arts and Sciences 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 CREDITS**

**UNIVERSITY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>Critical Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(minimum grade C)</td>
<td></td>
</tr>
</tbody>
</table>

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content ... 3

**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 ... 3

ENGL 312 Written Communications in Business ... 3

**BREADTH REQUIREMENTS** [see page 93-98]

A total of eighteen credits from Groups A, B, and C is required with six credits from each group ... 18

The six credits from each group could be from the same area ... 6

Group A: ... 6

Group B: ... 6

Group C: ... 6

**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. MATH 308, MATH 379, MATH 380 and MATH 382 are not applicable.

**Mathematics Section**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 242</td>
<td>Analytic Geometry and Calculus B</td>
<td>4</td>
</tr>
<tr>
<td>MATH 243</td>
<td>Analytic Geometry and Calculus C</td>
<td>4</td>
</tr>
<tr>
<td>MATH 268</td>
<td>Perspectives on Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>MATH 302</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 349</td>
<td>Elementary Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 530</td>
<td>Optimization and Game Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210</td>
<td>Discrete Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MATH 230 Finite Mathematics with Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following options (A or B, 6 credits total)

**Option A**

MATH 350 Probability Theory and Simulation Methods ... 3

and

MATH 450 Mathematical Statistics ... 3

**Option B**

MATH 201 Introduction to Statistical Methods I ... 3

and

MATH 202 Introduction to Statistical Methods II ... 3

One of the following options (C or D, 6 credits total)

Option C

MATH 245 An Introduction to Proof ... 3

and

MATH 401 Introduction to Real Analysis ... 3

Option D

MATH 503 Advanced Calculus for Applications ... 3

and

One of the following three courses ... 3

MATH 426 Numerical Analysis and Algorithmic Computations
MATH 512 Contemporary Application of Mathematics and Modeling
MATH 529 Linear Programming: Methods and Applications

Students intending to pursue a graduate education in financial mathematics should select at least MATH 210, Options A and C. Students intending to go into actuarial sciences should select Option A.

**Economics Section**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 301</td>
<td>Quantitative Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>(prerequisites: ECON 151 and MATH 241)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 303</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>(prerequisites: ECON 151 and ECON 301)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 422</td>
<td>Econometric Methods and Models I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 423</td>
<td>Econometric Methods and Models II</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following ... 3

ECON 406 Markets: Information and Uncertainty ... 3

ECON 426 Mathematical Economic Analysis ... 3

One of the following ... 3

ECON 302 Banking and Monetary Policy ... 3

ECON 430 Advanced Macroeconomic Theory ... 3

ECON 443 International Monetary Economics ... 3

ECON 471 Futures and Options Markets ... 3

FINC 311 Principles of Finance ... 3

One of the following Computer Science courses ... 3

CISC 105 General Computer Science ... 3

or

CISC 181 Introduction to Computer Science ... 3

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 ........................................ 124**

**HONORS BACHELOR OF SCIENCE: MATHEMATICS AND ECONOMICS**

The recipient must complete:

1. All requirements for the Bachelor of Science degree in Mathematics and Economics

2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 45 of this catalog)

Of the minimal 12 Honors credits required in the major department or in courses in collateral disciplines specifically required for the major, at least three credits have to be taken from the Department of Economics and at least three from the Department of Mathematical Sciences.

All Mathematics and Economics courses below the 600-level in which the student takes an Honors component may be counted toward the minimum 12 Honors credits in the major required for the Honors degree. All Mathematics and Economics courses at the 600-level or higher may be counted toward the minimum 12 honors of Honors credits in the major or collateral discipline required for the Honors degree.

**MEDICAL HUMANITIES**

Telephone: (302) 831-8195

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.
MINOR IN MEDICAL HUMANITIES

CSCC/PHIL 246 Philosophical Perspectives of Medicine 3
CSCC/HIST 382 History of Western Medicine 3
CSCC 366 Independent Study in Medical Humanities 1

Two courses from the following: 6
CSCC/WOMS 233 Women, Biology and Medicine
CSCC/PHIL 241 Ethical & Moral Dimensions of Health Care
CSCC/SOCI 311 Sociology of Health Care
CSCC/PHIL 444 Medical Ethics

Students wishing to complete a minor in Medical Humanities are encouraged to enroll as soon as possible. For more information, contact the Medical Scholars faculty coordinator at (302) 831-8195.

MEDIEVAL STUDIES

Telephone: (302) 831-3328

The College of Arts and Sciences 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.

MINOR IN MEDIEVAL STUDIES

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 406/408 Seminar in Medieval Art
ARTH 408/408 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 323 Medieval Literature and Culture
ENGL 322 Chaucer
FLIT 320 Varying Authors and Genres (on medieval topics)
FREN 423/425 French Medieval Literature
HIST 241 History of Christianity to 1300
HIST 243 Medieval Kings & Queens
HIST 342 Barbarian Europe
HIST 343 Medieval Europe 1050-1350
HIST 344 Renaissance Europe
HIST 421/427 Seminar in Medieval History
MUSC 311 Music History: 400 through 1600
PHIL 311 Early Medieval Philosophy
PHIL 312 Late Medieval Philosophy
SPAN 435/435 Spanish Medieval Literature

Substitutions may be arranged with the permission of the faculty coordinator, provided that the required disciplinary distribution is maintained.

MILITARY SCIENCE – ARMY ROTC

Telephone: (302) 831-8213
www.udel.edu/armyrotc/

The mission of the Military Science – Army ROTC program for undergraduates is to produce leaders of character to serve in the nation's defense. The cornerstone of the leadership program is developing self-confidence, teamwork, responsibility, professional ethics, and the development of all aspects of leadership.

Students at the University of Delaware can earn a commission as a Second Lieutenant in the U.S. Army upon completion of the military science program and a baccalaureate degree. The normal four-year ROTC program requires the completion of eight one-semester courses, totaling 12 credit hours, and successful completion of a five-week leadership camp during the summer prior to the senior year. Many challenging and fun training events are scheduled.

ROTC PROGRAM

The ROTC program consists of two major subsets – the Basic Course and the Advanced Course. Both courses are straightforward rather than conceptual and tend to be small (25 or less) with much personal interaction between the cadre and the students.

Basic Course – for freshmen and sophomores. A series of four 1-credit classes that are open to all students with no military obligation. Student instruction includes basic leadership skills, orientation to the US Army, time management and other academic skills, decision making, and adventure training opportunities (rappelling, land navigation, etc).

Faculty and the advanced course cadets form support groups and act as mentors to the basic course students, providing assistance and a positive environment. Students enrolled in the basic course can compete for 2- and 3-year scholarships that will pay full tuition/fees and provide stipends.

While the Army may not be for everyone, and some of the Basic Course students decide not to continue in the Advanced program, they all unequivocally state that the ROTC Basic Course instruction provided them with excellent life skills, abilities, and confidence.

Advanced Course – for juniors and seniors leading to a commission as a Second Lieutenant. This series of four 2-credit classes involves advanced practical leadership and military skills training, including a five-week summer training camp at Fort Lewis in the State of Washington. Students are paid and all travel, medical needs, lodging, and meals are provided while attending Advanced Camp.

No military obligation is incurred until the beginning of this phase. Once the student satisfactorily completes all ROTC requirements and graduates from the University, he/she receives a commission in the US Army (Active Duty or Reserve status).

Army ROTC Benefits

Four, three, and two-year scholarships are awarded to deserving ROTC students each year. Scholarships provide for total tuition costs (in-or out-of-state rates), up to $17,000 per year, plus a $600 book allowance and a tiered stipend which starts at $2,500 annually. All these benefits may be combined with other scholarship benefits. The Military Sciences Department has additional scholarship incentives worth over $70,000 to award to freshman through senior cadets for academic excellence. Typically, 100% of all UD ROTC students are on some type of scholarship incentive.

Many of the graduating cadets elect to go on Active Duty to put their ROTC leadership training into practice. The annual salary for a new Second Lieutenant exceeds $35,000.

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.

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. ROTC credits can be applied toward a leadership minor.

MUSIC

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

The mission of the Department of Music is to provide the best educational opportunities for our music majors' professional development as performers, educators, and scholars. We seek to provide optimal resources for significant musical growth through
departmental ensembles, private study, and academic music courses available to the general student and others of the University community. We provide opportunities for cultural enrichment to the University community and its constituencies, as well as leadership and support to music educators and other professional musicians in the region.

The curricula for undergraduate students majoring in music lead to the degrees 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. The degree Bachelor of Arts with a concentration in music management studies provides additional opportunities preparing students for administrative careers within the not-for-profit and for-profit sectors of the music industry. 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 enroll 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 is published in the Department's Student Handbook, available online at www.music.udel.edu/current/.

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.

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<table>
<thead>
<tr>
<th>DEGREE: BACHELOR OF ARTS</th>
<th>MAJOR: MUSIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRICULUM</td>
<td>CREDITS</td>
</tr>
</tbody>
</table>

See page 88 for University and College requirements.

<table>
<thead>
<tr>
<th>MAJOR REQUIREMENTS</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>No more than 45 credits of Music courses may count toward the degree.</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Applied Music</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 100 Recital Attendance (four semesters required)</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 153 Private Study: BA/Minor</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 154 Private Study: BA/Minor</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 175 Class Piano: Elementary I</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 253 Private Study: BA/Minor</td>
<td>2</td>
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<tr>
<td>MUSC 254 Private Study: BA/Minor</td>
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<table>
<thead>
<tr>
<th>Theory</th>
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<tbody>
<tr>
<td>MUSC 185/186 Ear Training and Sight Singing I and II</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 195/196 Harmony I and II</td>
<td>6</td>
</tr>
<tr>
<td>MUSC 285/286 Advanced Ear Training and Sight Singing I and II</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 295/296 Advanced Harmony I and II</td>
<td>6</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Ensemble</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Four Semesters</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

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

<table>
<thead>
<tr>
<th>CREDITS TO TOTAL A MINIMUM OF</th>
<th>124</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>DEGREE: BACHELOR OF ARTS</th>
<th>MAJOR: MUSIC MANAGEMENT STUDIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRICULUM</td>
<td>CREDITS</td>
</tr>
</tbody>
</table>

See page 88 for University and College Requirements.

<table>
<thead>
<tr>
<th>MAJOR REQUIREMENTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No more than 57 credits of Music courses may count toward the degree.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applied Music</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 153 Private Study: BA/Minor</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 154 Private Study: BA/Minor</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 175 Class Piano: Elementary I</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 253 Private Study: BA/Minor</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 254 Private Study: BA/Minor</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Theory</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 185/186 Ear Training and Sight Singing I and II</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 195/196 Harmony I and II</td>
<td>6</td>
</tr>
<tr>
<td>MUSC 285/286 Advanced Ear Training and Sight Singing I and II</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 295/296 Advanced Harmony I and II</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ensemble</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Four Semesters</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Literature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 211 Introduction to Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 311 Music History: 400-1600</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 312 Music History: 1600-1827</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 313 Music History: 1827 to the Present</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Music Management</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 388 Principles of Music Industry Practice</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 389 Elements of Music Management</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 393 Patterns of Patronage</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 464 Internship</td>
<td>1-3</td>
</tr>
</tbody>
</table>

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

| 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 Academic Advisement Center.

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNIVERSITY REQUIREMENTS</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 110 Critical Reading and Writing (minimum grade C)</td>
<td>3</td>
</tr>
<tr>
<td><strong>COLLEGE REQUIREMENTS</strong></td>
<td></td>
</tr>
<tr>
<td>Two semesters of the same modern foreign language</td>
<td>8</td>
</tr>
</tbody>
</table>

**BREADTH REQUIREMENTS** (See page 93-98)

**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. [MUSC 309 is recommended for partial fulfillment of this requirement] 9

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

**MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>Applied Music</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 100 Recital Attendance [six semesters required]</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 151 Private Study</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 152 Private Study</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 231 Private Study</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 232 Private Study</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 357 Advanced Private Study</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 358 Advanced Private Study</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 457 Advanced Private Study</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 458 Advanced Private Study</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 175/176 Class Piano: Elementary I and II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 301 Junior Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 401 Senior Recital</td>
<td>0</td>
</tr>
</tbody>
</table>

**Theory**
- 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 |
- MUSC 335 Basic Conducting | 2 |
- MUSC Theory electives | 4-6 |

**Ensemble**
- Twelve credits selected from the following: 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] 12

**Literature**
- MUSC 211 Introduction to Music History | 3 |
- MUSC 311 Music History: 1400-1600 | 3 |
- MUSC 312 Music History: 1600-1827 | 3 |
- MUSC 313 Music History: 1827 to the Present | 3 |
- MUSC 403 Chamber Music Literature | 3 |
- MUSC 405 Symphonic Literature | 3 |

**Music Electives**
- Excludes private study on primary instrument 7-9
- May include two credits of ensemble.

| CREDITS TO TOTAL A MINIMUM OF | 125 |

**DEGREE: BACHELOR OF MUSIC**
**MAJOR: APPLIED MUSIC–PIANO**

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNIVERSITY REQUIREMENTS</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 110 Critical Reading and Writing (minimum grade C)</td>
<td>3</td>
</tr>
<tr>
<td><strong>COLLEGE REQUIREMENTS</strong></td>
<td></td>
</tr>
<tr>
<td>Two semesters of the same modern foreign language</td>
<td>8</td>
</tr>
</tbody>
</table>

**BREADTH REQUIREMENTS** (See page 93-98)

**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

**MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>Applied Music</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 100 Recital Attendance [six semesters required]</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 151 Private Study</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 152 Private Study</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 231 Private Study</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 232 Private Study</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 357 Advanced Private Study</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 358 Advanced Private Study</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 457 Advanced Private Study</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 458 Advanced Private Study</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 175/176 Class Piano: Elementary I and II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 301 Junior Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 401 Senior Recital</td>
<td>0</td>
</tr>
</tbody>
</table>
MAJOR REQUIREMENTS

Applied Music

MUSC 100 Recital Attendance [six semesters required] 0
MUSC 151 Private Study 2
MUSC 152 Private Study 2
MUSC 251 Private Study 4
MUSC 252 Private Study 4
MUSC 257 Advanced Private Study 3
MUSC 358 Advanced Private Study 3
MUSC 457 Advanced Private Study 4
MUSC 458 Advanced Private Study 4
MUSC 481 Pedagogy and Literature 3
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 Keyboard Harmony 2
MUSC 335 Basic Conducting 2
MUSC Theory courses 4-6

Ensemble

Two semesters of any departmental ensemble 2
MUSC 241 Accompanying Chamber Music: Piano [4 semesters] 2
MUSC 441 Accompanying Chamber Music: Piano [2 semesters] 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
MUSC 363 Keyboard Literature I 3

One of the following courses:
MUSC 403 Chamber Music Literature 3
MUSC 405 Symphonic Literature 3

Music Electives

Excludes private study on primary instrument 9
May include two credits of ensemble

CREDITS TO TOTAL A MINIMUM OF 126

DEGREE: BACHELOR OF MUSIC
MAJOR: APPLIED MUSIC - VOICE

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing [minimum grade C-] 3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content [see p. 62-65] 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 91-93]

Mathematics: One of the following 0.4
MATH 113 Contemporary Mathematics [designed for students who do not intend to continue the study of mathematics] 0.3
MATH 114 College Mathematics and Statistics [designed for students who do not intend to continue the study of mathematics] 0.4

MATH 115 Pro-Calculus [designed for students who intend to continue the study of mathematics] 0.5
MATH 221 Calculus I 1
MATH 241 Analytic Geometry and Calculus A 1
Successful performance on the college proficiency exam [0 credits awarded]

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 93-98]
Group A 6
Understanding and appreciation of the creative arts and humanities. [This requirement is satisfied by MUSC 151 and 152]

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. [MUSC 309 is recommended for partial fulfillment of this requirement]

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 151 Private Study 2
MUSC 152 Private Study 2
MUSC 251 Private Study 4
MUSC 252 Private Study 4
MUSC 257 Advanced Private Study 3
MUSC 358 Advanced Private Study 3
MUSC 457 Advanced Private Study 4
MUSC 458 Advanced Private Study 4
MUSC 481 Pedagogy and Literature 3
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 Keyboard Harmony 2
MUSC 335 Basic Conducting 2
MUSC Theory courses 4-6

Ensemble

Two semesters of any departmental ensemble 2
MUSC 241 Accompanying Chamber Music: Piano [4 semesters] 2
MUSC 441 Accompanying Chamber Music: Piano [2 semesters] 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
MUSC 363 Keyboard Literature I 3

One of the following courses:
MUSC 403 Chamber Music Literature 3
MUSC 405 Symphonic Literature 3

Music Electives

Excludes private study on primary instrument 9
May include two credits of ensemble

CREDITS TO TOTAL A MINIMUM OF 126

DEGREE: BACHELOR OF MUSIC
MAJOR: APPLIED MUSIC - VOICE

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing [minimum grade C-] 3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content [see p. 62-65] 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 91-93]

Mathematics: One of the following 0.4
MATH 113 Contemporary Mathematics [designed for students who do not intend to continue the study of mathematics] 0.3
MATH 114 College Mathematics and Statistics [designed for students who do not intend to continue the study of mathematics] 0.4

MATH 115 Pro-Calculus [designed for students who intend to continue the study of mathematics] 0.5
MATH 221 Calculus I 1
MATH 241 Analytic Geometry and Calculus A 1
Successful performance on the college proficiency exam [0 credits awarded]

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 93-98]
Group A 6
Understanding and appreciation of the creative arts and humanities. [This requirement is satisfied by MUSC 151 and 152]

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. [MUSC 309 is recommended for partial fulfillment of this requirement]

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 151 Private Study 2
MUSC 152 Private Study 2
MUSC 251 Private Study 4
MUSC 252 Private Study 4
MUSC 257 Advanced Private Study 3
MUSC 358 Advanced Private Study 3
MUSC 457 Advanced Private Study 4
MUSC 458 Advanced Private Study 4
MUSC 481 Pedagogy and Literature 3
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 Keyboard Harmony 2
MUSC 335 Basic Conducting 2
MUSC Theory courses 4-6

Ensemble

Two semesters of any departmental ensemble 2
MUSC 241 Accompanying Chamber Music: Piano [4 semesters] 2
MUSC 441 Accompanying Chamber Music: Piano [2 semesters] 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
MUSC 363 Keyboard Literature I 3

One of the following courses:
MUSC 403 Chamber Music Literature 3
MUSC 405 Symphonic Literature 3

Music Electives

Excludes private study on primary instrument 9
May include two credits of ensemble

CREDITS TO TOTAL A MINIMUM OF 126
CREDITS TO TOTAL A MINIMUM OF: 130

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 Advising 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 course content [see p. 62-65] 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 91-93)

Mathematics: One of the following: .............................................. 0-4
MATH 113 Contemporary Mathematics (designed for students who do not intend to continue the study of mathematics) .............................................. 3
MATH 114 College Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics) .............................................. 3
MATH 115 Pre-Calculus (designed for students who intend to continue the study of mathematics) .............................................. 3
MATH 221 Calculus I ................................................................. 3
MATH 241 Analytic Geometry and Calculus A
Successful performance on the college proficiency exam (0 credits awarded)

BREADTH REQUIREMENTS: (See page 93-98)
Group A: Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas. (This requirement is partially satisfied by MUSC 195 and 196) .............................................. 9
Group B: The study of culture and institutions over time. (MUSC 311, 312, and 313 satisfy this requirement) .............................................. 9
Group C: Empirically based study of human beings and their environment. Nine credits representing at least two areas. (MUSC 309 is recommended for partial fulfillment of this requirement) .............................................. 9
Group D: The study of natural phenomena through experiment and analysis. One science course with an associated laboratory. .............................................. 4

MAJOR REQUIREMENTS

Applied Music
MUSC 100 Recital Attendance (six semesters required) .............................................. 0
MUSC 151 Private Study ........................................................................... 2
MUSC 152 Private Study ........................................................................... 2
MUSC 231 Private Study ........................................................................... 2
MUSC 252 Private Study ........................................................................... 2
MUSC 351 Private Study ........................................................................... 2
MUSC 352 Private Study ........................................................................... 2
MUSC 451 Private Study ........................................................................... 2
MUSC 175 Class Piano: Elementary I .......................................................... 1
MUSC 176 Class Piano: Elementary II .......................................................... 1
MUSC 275 Class Piano: Intermediate I .......................................................... 1
MUSC 276 Class Piano: Intermediate II .......................................................... 1
MUSC 174 Class Voice: Beginning ............................................................... 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 431 Orchestration ........................................................................... 2

Ensemble
MUSC 113 Marching Band ........................................................................... 3
An additional four credits from MUSC 113, 114, 115, 117 ................................. 4

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: 1827 to the Present .................................................. 3

Secondary Instruments
MUSC 214 Stringed Instruments Class ........................................................... 1
MUSC 215 High Brass Instruments Class ....................................................... 1
MUSC 216 Low Brass Instruments Class ......................................................... 1
MUSC 217/218 Woodwind Instruments Class I and II ......................................... 2
MUSC 219 Percussion Instruments .................................................................... 1

Music Methods
MUED 179 Freshman Seminar in Music Education .......................................... 1
MUSC 287 Music Technology ........................................................................... 3
MUSC 335 Basic Conducting ........................................................................... 2
MUSC 279 Practicum in Music Education ....................................................... 3
MUSC 337 Instrumental Conducting .................................................................... 2
MUSC 379 Music in the Elementary and Junior High (or Middle) School .......... 3
MUSC 479 Secondary Music Materials and Approaches .................................... 3

Music Electives
Six music electives excluding ensemble and private study on primary instrument 6

Professional Studies
EDUC 413 Adolescent Development and Educational Psychology .................. 4
EDUC 414 Teaching Exceptional Adolescents .................................................. 3
EDUC 419 Diversity in Secondary Education ................................................... 3
EDUC 400 Student Teaching ........................................................................... 9
EDUC 430 Classroom Management .................................................................... 1

Grade of C or better required in all major and Professional Studies courses.

To be eligible to student teach, Music Education students must have a GPA of 2.75 in their music major and an overall GPA 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 page 205) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF: 130
MATH 115 Pre-Calculus  
(designated 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 (3 credits awarded)

BREADTH REQUIREMENTS (See page 93-98)
Group A  
Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas (This requirement is partially satisfied by MUSC 195 and 196.)

Group B  
The study of culture and institutions over time (MUSC 311, 312, and 313 satisfy this requirement)

Group C  
Empirically based study of human beings and their environment. Nine credits representing at least two areas (MUSC 309 is recommended for partial fulfillment of this requirement)

Group D  
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 151 Private Study: Piano 2
MUSC 152 Private Study: Piano 2
MUSC 251 Private Study: Piano 2
MUSC 252 Private Study: Piano 2
MUSC 351 Private Study: Piano 2
MUSC 352 Private Study: Piano 2
MUSC 451 Private Study: Piano 2
MUSC 155 Private Study: Voice (four semesters required) 2
MUSC 480 Vocal Pedagogy 2

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 407 Contemporary Music Literature 3
MUSC 431 Orchestration 2

Ensemble: One of the following (any 7 semesters) 7
MUSC 108 University Singers 
or MUSC 109 Schola Cantorum 
or MUSC 110 Chorale

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: 1827 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

Music Methods
MUEJ 179 Freshman Seminar in Music Education 1
MUSC 287 Music Technology 3
MUSC 335 Basic Conducting . 2
MUEJ 279 Practicum in Music Education 3
MUEJ 336 Choral Conducting 2
MUEJ 379 Music in the Elementary and Junior High (or Middle) School 3
MUEJ 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 Adolescent Development and Educational Psychology 4
EDUC 414 Teaching Exceptional Adolescents 3
EDUC 419 Diversity in Secondary Education 3
EDUC 450 Student Teaching 9
EDUC 430 Classroom Management 1

Grade of C or better required in all major and Professional Studies courses.

To be eligible to student teach, Music Education students must have a GPA of 2.75 in their music major and an overall GPA 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 205) to obtain the student teaching application and other information concerning student teaching policies

CREDITS TO TOTAL A MINIMUM OF.................. 130

DEGREE: BACHELOR OF MUSIC
MAJOR: MUSIC EDUCATION - GENERAL/CHORAL CONCENTRATION: 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 course content (see p. 62-65) 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 91-93)

Mathematics: One of the following 0-4
MATH 113 Contemporary Mathematics 
(designated for students who do not intend to continue the study of mathematics)
MATH 114 College Mathematics and Statistics
(designated for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus
(designated 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 (9 credits awarded)

BREADTH REQUIREMENTS (See page 93-98)
Group A  
Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas (This requirement is partially satisfied by MUSC 195 and 196.)

Group B  
The study of culture and institutions over time (MUSC 311, 312, and 313 satisfy this requirement)

Group C  
Empirically based study of human beings and their environment. Nine credits representing at least two areas (MUSC 309 is recommended for partial fulfillment of this requirement)

Group D  
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 151 Private Study 2
MUSC 152 Private Study 2
MUSC 251 Private Study 2
MUSC 252 Private Study 2
MUSC 351 Private Study 2
MUSC 352 Private Study 2
MUSC 451 Private Study 2
MUSC 155 Private Study: Voice (four semesters required) 2
MUSC 480 Vocal Pedagogy 2

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 407 Contemporary Music Literature 3
MUSC 431 Orchestration 2

Ensemble: One of the following (any 7 semesters) 7
MUSC 108 University Singers 
or MUSC 109 Schola Cantorum 
or MUSC 110 Chorale

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: 1827 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

Music Methods
MUEJ 179 Freshman Seminar in Music Education 1
MUSC 287 Music Technology 3
MUSC 335 Basic Conducting . 2
MUEJ 279 Practicum in Music Education 3
MUEJ 336 Choral Conducting 2
MUEJ 379 Music in the Elementary and Junior High (or Middle) School 3
MUEJ 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 Adolescent Development and Educational Psychology 4
EDUC 414 Teaching Exceptional Adolescents 3
EDUC 419 Diversity in Secondary Education 3
EDUC 450 Student Teaching 9
EDUC 430 Classroom Management 1

Grade of C or better required in all major and Professional Studies courses.

To be eligible to student teach, Music Education students must have a GPA of 2.75 in their music major and an overall GPA 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 205) to obtain the student teaching application and other information concerning student teaching policies

CREDITS TO TOTAL A MINIMUM OF.................. 130
DEGREE: BACHELOR OF MUSIC

MAJOR: THEORY/COMPOSITION

CONCENTRATIONS: THEORY/COMPOSITION

CURRICULUM

CREDITS

UNIVERSITY REQUIREMENTS

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

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 62-65) 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 91-93.)

Mathematics: One of the following 0-4

MATH 113 Contemporary Mathematics
[designed for students who do not intend to continue the study of mathematics] 4

MATH 114 College Mathematics and Statistics
[designed for students who do not intend to continue the study of mathematics] 4

MATH 115 Pre-Calculus
[designed for students who intend to continue the study of mathematics] 4

MATH 221 Calculus I 1

MATH 241 Analytic Geometry and Calculus A 1

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

Modern Languages and History:

Twelve credits in one of the following:

French, German, or Italian 12

HIST 101 Western Civilization to 1648 3

HIST 102 Western Civilization 1648 to the Present 3

BREADTH REQUIREMENTS (See page 93-98)

Two 200 level or higher English literature courses selected from Group A or B. It is recommended that one of these courses be a poetry course 6

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

Empirically based study of human beings and their environment. Nine credits representing at least two areas. (Music 309 is recommended for partial fulfillment of this requirement) 9

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 175/176 Class Piano: Elementary I and II 2

MUSC 275/276 Class Piano: Intermediate I and II 2

Secondary Instruments and Conducting

MUSC 214 Stringed Instruments Class 1

MUSC 215 High Brass Instruments Class 1

MUSC 217 Woodwind Instruments Class I 1

MUSC 219 Percussion Instruments 1

MUSC 335 Basic Conducting 2

Theory

MUSC 285/286 Ear Training and Sight Singing I and II 3

MUSC 285/286 Advanced Ear Training and Sight Singing I and II 3

MUSC 195/196 Harmony I and II 3

MUSC 195/196 Advanced Harmony I and II 3

MUSC 295/296 Advanced Harmony I and II 3

MUSC 287 Music Technology 3
MUSC 431 Orchestration .................................. 2
MUSC 392 Counterpoint and Fugue ..................... 3
MUSC 393 Keyboard Harmony I ......................... 2
MUSC 395 Form Analysis ................................ 3
MUSC 397 Contemporary Harmony ...................... 3

One of the following concentrations [Theory or Composition]: 12

Theory Concentration
MUSC 298 Beginning Composition (4 semesters) 
MUSC 421 Special Projects in Theory and Composition 
MUSC 484 Recording Techniques
MUSC 420 Advanced Composition (two semesters) 
or
MUSC 420 Advanced Composition (one semester) and MUSC Theory, literature, or applied music elective

Composition Concentration
MUSC 298 Beginning Composition (4 semesters) 
MUSC 484 Recording Techniques
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: 1827 to the Present .......... 3
MUSC 407 Contemporary Music Literature .............. 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 45 of this catalog)

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 all 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 Academic 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
Not required of persons minoring in Applied Music-Piano.

MUSC 153, 154, 253, 254 Private Study: BA/Minor .......... 8
Lessons will be 1/2 hour per week and will include a repertoire class

Ensemble and private study must be taken concurrently. (See Ensemble Policy in the Department of Music Student Handbook) Music Minors with principal instrument of piano, organ, or guitar must refer to the Department for required ensembles.

MUSC 185 and 195 Ear Training and Sight Singing/Harmony I .... 5

Music Literature/History .................................. 3
(MUSIC 101 and 102 do not fulfill this requirement. Any other music history course will do.)

TOTAL CREDITS .............................................. 21

MUSIC MINOR: CHURCH MUSIC

The minor in Church Music is directed to the university student who wishes to learn about the art of church music. The minor is open to music majors as well as non-majors with appropriate background in keyboard and musical studies. Admission requires departmental approval, based on audition. The program comprises a sequence of courses focusing on historical information, skills, and practical experience relative to the field of church music. Upon completion of the minor, many students will be prepared for positions as church musicians.

REQUIRED COURSES: .................................................. CREDITS
MUSC 179 Organ Class .................................. 1
MUSC 279 Introduction to the Organ ................. 2
(Prerequisites: MUSC 185 and 195; and two semesters of organ study, or permission of the instructor)
MUSC 153, MUSC 154, MUSC 253 Private Study: BA/Minor .... 6
(Prerequisites: MUSC 185 and 195; and two semesters of organ study, or permission of the instructor)
MUSC 292 Organ Improvisation and Service Playing .... 2
(Prerequisites: MUSC 185 and 195; and two semesters of organ study, or permission of the instructor)

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; and (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, 182, 281, 282, 283 Jazz History/Practices, Styles/Tech .................................. 10
MUSC 116 (four semesters), MUSC 321 Ensemble .......... 5
MUSC 400 Internship .................................. 1-3
(MUSC 116, 321, and 400 are normally taken concurrently)

TOTAL CREDITS .............................................. 19-21

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 a foundation in applied music and/or music theory who wish to develop administrative careers within the music industry.

Students who are not also music majors must successfully complete with a grade of C- or better at least 8-11 credits of specified music courses, including a course sequence of music theory courses, before declaring the minor or registering for the core courses listed below. A music theory test will be required for placement in music theory classes. The advisor for music management studies must approve the selection of music courses. Students interested in the minor in Music Management Studies are strongly urged to seek advisement from the music department no later than their sophomore year. Curriculum sheets for this minor are available in the music office. More information about requirements for this minor may be found at: www.music.udel.edu/current/non-majors.html

TOTAL CREDITS .............................................. 21
All students selecting the minor, both music majors and nonmusic majors, will complete a core component of 10-12 credits as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 388 Principles of Music Industry Practice</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 389 Elements of Music Management</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 309 Patterns of Patronage</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 464 Internship</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 185 Ear Training and Sight Singing I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 195 Harmony I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 211 Introduction to Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 311 Music History: 400-1600</td>
<td></td>
</tr>
<tr>
<td>or MUSC 312 Music History: 1600-1827</td>
<td></td>
</tr>
<tr>
<td>or MUSC 313 Music History: 1827 to Present</td>
<td></td>
</tr>
<tr>
<td>MUSC Ensemble</td>
<td>2</td>
</tr>
<tr>
<td>MUSC History/Literature Elective (MUSC 101 and 102 do not fulfill this requirement. Any other music history course will do.)</td>
<td>3</td>
</tr>
<tr>
<td>MUSC Theory Elective (MUSC 186, 196, 197, 287, 385)</td>
<td>2-3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS: 18-19**

**NEUROSCIENCE**

E-mail: northmor@udel.edu

This 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 University Advisement Center.

**PHILOSOPHY**

Telephone: (302) 831-2359
www.udel.edu/Philosophy/default.html

Philosophy provides training in basic methods of reasoning, both clear thinking procedures for everyday decision making and more formal techniques of logical analysis. It examines fundamental issues and ideas about our knowledge and values. It furnishes a critical perspective on the methods and results of other disciplines.

A major, a minor, or a concentration in philosophy is a useful background for many careers including the teaching of philosophy. Majors often go on to graduate work in other Arts and Sciences disciplines, as well as to further schooling in law, theology, education, data processing, or business. In general, philosophy offers all students opportunities to develop their critical and analytical skills.

The American Philosophical Association's national headquarters is on the Delaware campus www.apa.udel.edu/apa/.

**DEGREE: BACHELOR OF ARTS**

**MAJOR: PHILOSOPHY**

CURRICULUM

See page 88 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
PHIL 465 Senior Seminar

Three Philosophy elective courses, to include
One three-credit course at the 300-level or above
One three-credit course with multicultural content

Note that PHIL 305 can be used to satisfy either the requirement in Epistemology or the requirement in Metaphysics, but not both. A student who takes PHIL 305 must take at least one additional course from one of those two categories.

**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: PHILOSOPHY**

The recipient must complete:
1. All requirements for the Bachelor of Arts in Philosophy
2. All the University's generic requirements for the Honors Degree (see page 45 of this catalog)
   a. At least six of the twelve Honors credits required in the major must be at the 300-level or higher
   b. At least three of these Honors credits must be in either PHIL 301 or PHIL 303.

**MINOR IN PHILOSOPHY**

A minor in philosophy requires a minimum of 15 credits, consisting of PHIL 105 or 205; PHIL 301 or PHIL 303; an additional 300-level PHIL course; and two PHIL electives.

**PHYSICS AND ASTRONOMY**

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

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.

DEGREE: BACHELOR OF ARTS
MAJOR: PHYSICS
CURRICULUM
CREDITS

See page 88 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)...

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 multi-cultural, ethnic, and/or gender-related course content (see p. 62-63) ........ 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 91-93.)

BREADTH REQUIREMENTS (See page 93-98)
A total of eighteen credits from Groups A, B and C is required with a minimum of six credits in each group. The six credits from each group could be from the same area.
MAJOR REQUIREMENTS
Within the Department
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 Fundamentals of Physics I and II 8
PHYS 309 20th/21st Century Physics 3
PHYS 313 Physical Optics 4
PHYS 419 Classical Mechanics I 3
PHYS 424 Quantum Mechanics 3
PHYS 499 Introduction to Research 4
PHYS 460 Computational Methods of Physics 3
PHYS 603 Electricity and Magnetism I 3
PHYS 610 Kinetic Theory and Thermodynamics 3
PHYS 670 Classical Mechanics II 3
PHYS 621 Fundamentals of Modern Physics I 3
PHYS 632 Astrophysics 3
PHYS 633 Stellar Astrophysics 3
PHYS 645 Electronics for Scientists 3
PHYS 646 Instrumentation for Scientists 3
MATH 241/242/243 Analytic Geometry and Calculus A, B and C 12
MATH 302 Ordinary Differential Equations 3
MATH 349 Elementary Linear Algebra 3
CHEM 111/119 General Chemistry and Quantitative Chemistry 5
CHEM 112 General Chemistry 3
CHEM 443/445 Physical Chemistry I and Laboratory 4
CHEM 444/446 Physical Chemistry II and Laboratory 4

Any two of the following 7-9
CHEM 220, 221 (or 437, 438) Quantitative Analysis and Laboratory
CHEM 321 (or 331, 333) Organic Chemistry
CHEM 457, 458 Inorganic Chemistry
CHEM 527 or 641 Introductory Biochemistry

One of the following 6
MATH 302/349 Ordinary Differential Equations and Elementary Linear Algebra
MATH 341/342 Differential Equations with Linear Algebra

Foreign Language or Computer Science: 0-12
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.

Or,
Completion of the following Computer Science sequence:
CISC 105 General Computer Science 3
CISC 181 Introduction to Computer Science 3
CISC 220 Data Structures 3
Additional credits of Computer Science at or above the 260 level 3

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

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: PHYSICS
CONCENTRATION: MATERIALS PHYSICS

CURRICULUM
CREDITS

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C) 3
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see page 62-65) 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 91-93.

BREADTH REQUIREMENTS (See page 93-98)
A total of twelve credits from Groups A, B and C is required with a minimum of six credits in each group. 18
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.

**MAJOR REQUIREMENTS**

The recipient must complete:

1. All requirements for the Bachelor of Science Degree in Physics
2. All of the University's generic requirements for the Honors Baccalaureate Degree
3. At least 7 of the 12 Honors credits required in the major must be in Honors PHYS courses. The remaining Honors credits in the major may come from related courses required for the major.

Note: Courses at the 600-level or higher in physics in excess of the 600-level courses required for the BS degree may be considered as Honors courses.

**HONORS BACHELOR OF ARTS: PHYSICS EDUCATION**

The recipient must complete:

1. All requirements for the Bachelor of Arts Degree in Physics Education
2. All of the University's generic requirements for the Honors Baccalaureate Degree
3. At least 7 of the 12 Honors credits required in the major must be in Honors PHYS courses. The remaining Honors credits in the major may come from related courses required for the major.

Note: Courses at the 600-level or higher in physics may be considered as Honors courses.

**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 minorin in physics should consult the physics faculty advisor for advice or prerequisites for these courses and for assignment to an advisor.

**POLITICAL SCIENCE, INTERNATIONAL RELATIONS, AND PUBLIC ADMINISTRATION**

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

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

**POLITICAL SCIENCE**

Students may earn a Bachelor of Arts through major programs in Political Science and in Political Science Education, and through a joint program with the Department of Foreign Languages and Literatures in French, German, or Spanish/Political Science. Honors degree options are available for all degrees. A minor in political science is also available.

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 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

**CREDITS**

See page 88 for University and College requirements

### MAJOR REQUIREMENTS

**Core Courses for the Major:**

- POSC 150 American Political System .......................... 3
- POSC 151 Exploring American Politics ......................... 1
- POSC 300 Data Analysis for Political Science ............... 3
- One of the following courses: ................................... 3
  - POSC 220 Introduction to Public Policy
  - 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: 18

- nine credits from POSC courses at the 300- or 400-level
- nine credits from POSC courses at the 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)

- American Politics
- Comparative Politics
- International Relations
- Public Administration and Public Policy
- 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**

The following course is required for the concentration and will fulfill one of the core courses required of all majors:

- POSC 220 Introduction to Public Policy ........................... 3

- One of the following .............................................. 3
  - POSC 301 State and Local Government
  - POSC 303 Public Administration
  - POSC 313 American Foreign Policy

- Five courses from the following two fields, with at least two courses taken in each field and at least two courses taken at the 400-level ... 15

**Mass Behavior**

- POSC 320 Parties and Interest Groups
- POSC 321 Class, Ethnicity and Politics
- POSC 322 Race and Politics
- POSC 323 Introduction to Women and Politics
- POSC 324 Voting and Elections
- POSC 340 Politics and Media
- POSC 401 Gender, Sex, and Law*
- POSC 402 Civil Liberties: Individual Freedoms
- POSC 403 Civil Liberties: Equal Protection Clause

**Ideas & Institutions**

- POSC 334 Liberalism and Conservatism
- POSC 387 American Political Thought
- POSC 404 The Judicial Process
- POSC 405 Constitutional Law of the United States
- POSC 407 American Presidency
- POSC 413 Problems in American Government*
- POSC 422 Political Leadership
- POSC 423 Congress and Public Policy
- POSC 437 Who Governs: Perspectives on Political Power

The following may count once towards completion of above fields (Mass Behavior or Ideas & Institutions):

- POSC 464 Internship in Political Science
- POSC 468 Undergraduate Research

**Global Studies Concentration**

Three of the following **topical** courses, with at least one at the 400-level .... 9

- POSC 313 American Foreign Policy
- POSC 316 International Political Economy
- POSC 329 International Migration
- POSC 333 Contemporary Political Ideologies
- POSC 341 Environment of the Multinational Corporation
- POSC 414 Problems in American Foreign Policy*
- POSC 415 Force and World Politics
- POSC 422 Political Leadership
- POSC 444 Global Agenda*
- POSC 445 Human Rights and World Politics
- POSC 446 International Human Rights Film
- POSC 448 Theories of International Relations
- POSC 463 The United Nations and World Affairs
- POSC 475 Model United Nations**

Three of the following **country** courses, with at least one at the 400-level ... 9

- POSC 309 Political Culture by Country
- POSC 310 European Governments
- POSC 311 Politics of Developing Nations
- POSC 312 Politics of East Asian Development
- 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 429 Southeast Asia and the World
- 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**

The following may count once towards completion of above fields (Topical or Country):

- POSC 464 Internship in Political Science
- POSC 468 Undergraduate Research

*May be taken twice when topics differ

**May be counted towards major and concentration once only.
Politics and Journalism Concentration
POS C 340 Media and Politics .................................................. 3
ENG L 307 News Writing and Editing .......................................... 3
Four of the following, with at least two at the 400-level .................. 12
POS C 301 State and Local Government
POS C 311 Politics of Developing Nations
POS C 313 American Foreign Policy
POS C 319 Topics in Politics and Broadcast Journalism*
POS C 320 Parties and Interest Groups
POS C 343 Society, Politics and Health Care
POS C 350 Politics and the Environment
POS C 404 The Judicial Process
POS C 407 American Presidency
POS C 409 Contemporary Problems of World Politics*
POS C 411 Politics and Poverty
POS C 413 Problems in American Government*
POS C 414 Problems in American Foreign Policy
POS C 415 Force and World Politics
POS C 423 Congress and Public Policy
POS C 425 Topics in Politics and Broadcast Journalism*
POS C 437 Who Governs: Perspectives on Political Power
POS C 445 Human Rights and World Politics
POS C 456 Disaster and Politics

The following may count once towards completion of above:
POS C 464 Internship in Political Science
or
POS C 468 Undergraduate Research

Three of the following ......................................................... 9
ENG L 308 Reporters Practiceum
ENG L 309 Feature and Magazine Writing
ENG L 310 Copy Editing and Layout
ENG L 407 Advanced Reporting
ENG L 408 Sports Writing
ENG L 409 Topics in Journalism

*May be taken twice when topics differ

Public Law Concentration
Three of the following ......................................................... 9
POS C 380 Introduction to Law
POS C 401 Topics in Constitutional Law*
POS C 402 Civil Liberties: Individual Freedoms
POS C 403 Civil Liberties: Equal Protection Clause
POS C 405 Constitutional Law

Three of the following ......................................................... 9
POS C 363 International Law and Organization
POS C 387 American Political Thought
POS C 404 Judicial Process
POS C 407 American Presidency
POS C 423 Congress and Public Policy
POS C 434 Political Thought I
POS C 435 Political Thought II
POS C 445 Human Rights and World Politics

The following may count once towards completion of above
POS C 464 Internship in Political Science
or
POS C 468 Undergraduate Research

*May be taken twice when topics differ

Public Policy and Public Administration Concentration
POS C 220 Introduction to Public Policy ..................................... 3
POS C 303 Public Administration ............................................... 3
POS C 464 Internship in Political Science ................................... 3

Three of the following, with at least two at the 400-level ............... 9
POS C 301 State and Local Government
POS C 306 Economic Theory and Politics
POS C 343 Society, Politics, and Health Care
POS C 350 Politics and the Environment
POS C 355 Urban Politics and Community Development
POS C 408 International Organization
POS C 411 Politics and Poverty
POS C 415 Force and World Politics
POS C 420 Introduction to Political Economy
POS C 423 Congress and Public Policy
POS C 424 Energy Policy and Administration
POS C 452 Problems in Urban Politics
POS C 453 Public Sector Human Resource Management
POS C 454 Organizational Behavior and Theory in the Public Sector
POS C 455 Public Budgeting and Financial Management
POS C 456 Disaster and Politics
POS C 468 Undergraduate Research

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

CREDITS

CURRICULUM

See page 88 for University and College requirements.

MAJOR REQUIREMENTS
POS C 150 American Political System ........................................ 3
POS C 151 Exploring American Politics ...................................... 1
POS C 240 Introduction to International Relations ...................... 3
POS C 300 Data Analysis for Political Science ............................. 3

One of the following courses: ............................................... 3
POS C 220 Introduction to Public Policy
POS C 270 Comparative Politics
POS C 285 Currents in Political Theory

Eighteen credits distributed as follows: ................................... 18
- 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

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

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

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

EDUC 400 Student Teaching .................................................. 9
EDUC 413 Adolescent Development Educational Psychology ......... 4
EDUC 414 Teaching Exceptional Adolescents ................................ 3
EDUC 419 Diversity in Secondary Education ............................. 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, GEOG, HIST, and POSC courses.

To be eligible to student teach, Political Science Education students must have a GPA of 3.0 in their major and an overall GPA 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 list on p. 205) to obtain the student teaching application and other information concerning student teaching policies.

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

157
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<td>POSC 240</td>
<td>Introduction to International Relations</td>
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<td>POSC 270</td>
<td>Comparative Politics</td>
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<td>POSC 310</td>
<td>European Governments</td>
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<td>POSC 441</td>
<td>Problems of Western European Politics by Country</td>
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<td>POSC 442</td>
<td>Problems of Western European Politics</td>
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</tbody>
</table>

**International Relations**

International Relations (IR) is an interdisciplinary major in the College of Arts and Sciences with core (25 credits), concentration (18 credits), and regional specialization (9 credits) requirements. Students 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 consideration 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:** International Relations majors are strongly encouraged to consider a study abroad experience as a part of their program. Students participating 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 experiences abroad not otherwise offered in University of Delaware course lists. In many instances, these courses may count towards IR Concentration and Regional Specialization requirements. Students should check with the IR Program 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 particular 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 international relations must have completed POSC 240 with a grade of C- or better and completed at least 12 additional hours of university courses. Students must have a minimum of a 2.3 average to change their major to international relations. Students transferring to the major from outside the University of Delaware will have their transcripts evaluated by the director on a case-by-case basis.

DEGREE: BACHELOR OF ARTS
MAJOR: INTERNATIONAL RELATIONS

CURRICULUM

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

The core consists of 21 hours of course work:

- POSC 150 American Political System
- POSC 240 Introduction to International Relations
- POSC 241 Exploring International Relations
- ECON 151 Introduction to Microeconomics
- ECON 152 Introduction to Macroeconomics
- GEOG 120 World Regional Geography

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

One course from:

- HIST 102 Western Civilization I (648 to Present)
- HIST 104 World History II

And one history course from:

- HIST 131 Islamic Near East (1500 to Present)
- HIST 134 History of Africa
- HIST 135 Introduction to Latin American History
- HIST 137 East Asian Civilization: China
- HIST 138 East Asian Civilization: Japan

CONCENTRATIONS

Students must choose one of four IR concentrations: (1) Development, (2) Security and World Order, (3) International Political Economy, or (4) U.S. Foreign Policy. Concentrations require 18 hours of course work. Each concentration has a required POSC course and ECON 340 (or ECON 311 for the Development Concentration). Students must take at least three approved Political Science and International Relations courses at each concentration level in each concentration. Courses used to meet concentration requirements cannot be used to fulfill Specialization requirements.

Development Concentration

Required:

- POSC 311 Politics of Developing Nations
- ECON 311 Economics of Developing Countries

At least two (6 credits) from:

- POSC 315 Third World Women in Politics
- POSC 316 International Political Economy
- POSC 341 Environment of Multinational Corporations
- POSC 422 Diplomacy
- POSC 468 International Organization
- POSC 475 Model UN
- POSC 464 Human Rights and World Politics
- POSC 466 International Human Rights on Film
- POSC 444 Global Agenda
- POSC 466 Model OAS
- POSC 463 The United Nations and World Affairs
- POSC 465 International Development Policy and Administration

Other courses approved to fulfill the 18 credit concentration minimum in addition to courses listed above

- ANTH 222 Technology and Culture
- ANTH 225 Peasant Societies
- ANTH 330 Development and Underdevelopment
- ANTH 363 Women in Cross-Cultural Perspective
- ANTH 370 Culture/Food Production and Economic Development
- ANTH 401 The Idea of Race
- ECON 340 International Economics
- ECON 341 Environment of Multinational Corporations
- ECON 345 Economics in Transition
- ECON 411 Economic Theory of Developing Countries
- ECON 441 Advanced International Microeconomics
- ECON 443 International Monetary Economics
- GEOG 210 Economic Geography
- GEOG 236 Conservation: Global Issues
- GEOG 242 Resources, Development, and the Environment
- GEOG 460 Women in International Development
- HIST 381 Islam and the West: The History of Mutual Perceptions
- HIST 395 Pan Africanism
- SOC 328 Work in Global Economy
- SOC 331 World Population: Profiles and Trends
- SOC 360 Sociology of Religion
- SOC 361 Racial Inequality
- SOC 460 Women in International Development
- FREC 410 International Agricultural Trade and Marketing
- FREC 420 Agriculture in Economic Development
- PHIL 204 World Religions

Diplomacy and World Order Concentration

Required:

- POSC 362 Diplomacy
- ECON 340 International Economics

At least two (6 credits) from:

- POSC 313 American Foreign Policy
- POSC 316 International Political Economy
- POSC 330 Political Terrorism
- POSC 333 Contemporary Political Ideologies
- POSC 341 Environment of Multinational Corporations
- POSC 363 International Law and Organization
- POSC 408 International Organization
- POSC 409 Contemporary Problems of World Politics
- POSC 414 Problems in American Foreign Policy
- POSC 415 Force and World Politics
- POSC 444 Global Agenda
- POSC 445 Human Rights and World Politics
- POSC 446 International Human Rights and Film
- POSC 448 Theory of International Relations
- POSC 463 The United Nations and World Affairs
- POSC 465 Model OAS
- POSC 475 Model United Nations
- POSC 464 Human Rights and World Politics

Other courses approved to fulfill the 18 credit concentration minimum in addition to courses listed above

- ANTH 222 Technology and Culture
- ANTH 225 Peasant Societies
- ANTH 330 Development and Underdevelopment
- ANTH 363 Women in Cross-Cultural Perspective
- ANTH 370 Culture/Food Production and Economic Development
- ANTH 401 The Idea of Race
- ECON 340 International Economics
- ECON 341 Environment of Multinational Corporations
- ECON 345 Economics in Transition
- ECON 411 Economic Theory of Developing Countries
- ECON 441 Advanced International Microeconomics
- ECON 443 International Monetary Economics
- GEOG 210 Economic Geography
- GEOG 236 Conservation: Global Issues
- GEOG 242 Resources, Development, and the Environment
- GEOG 460 Women in International Development
- HIST 381 Islam and the West: The History of Mutual Perceptions
- HIST 395 Pan Africanism
- SOC 328 Work in Global Economy
- SOC 331 World Population: Profiles and Trends
- SOC 360 Sociology of Religion
- SOC 361 Racial Inequality
- SOC 460 Women in International Development
- FREC 410 International Agricultural Trade and Marketing
- FREC 420 Agriculture in Economic Development
- PHIL 204 World Religions

Other courses approved to fulfill the 18 credit concentration minimum in addition to courses listed above

159
ANTH 370
ANTH 230 Peoples of the World
SOCI 460 Sociology of Religion
ANTH 401 Women in International Development
FREC 410 International Agricultural Trade and Marketing
FREC 420 Agriculture in Economic Development
GEOG 422 Resources Development and the Environment
GEOG 438 World Cities in Comparative Perspective
GEOG 236 Conservation: Global Issues
ANTH 401 The
PHIL 204 World Religions

International Political Economy Concentration

Required:
POSC 316 International Political Economy 3
ECON 340 International Economics

At least two (6 credits) from:
POSC 333 Contemporary Political Ideologies
POSC 341 Environment of Multinational Corporations
POSC 362 Diplomacy
POSC 409 Contemporary Problems of World Politics
POSC 414 Problems in American Foreign Policy
POSC 444 Global Agenda
POSC 448 Theories of International Relations
POSC 640 International Development and Policy Administration

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
ECON 330 Development and Underdevelopment
ANTH 333 Peoples of Africa
ANTH 330 Development and Underdevelopment
GEOG 210 Economic Geography
GEOG 203 Introduction to Cultural Geography
GEOG 210 Economic Geography
GEOG 236 Conservation: Global Issues
GEOG 422 Resources Development and the Environment
GEOG 438 World Cities in Comparative Perspective
GEOG 460 Women in International Development
HIST 210 War in Western Civilization
HIST 302 The World in Our Time
HIST 306 History of American Foreign Policy
HIST 351 Europe in Crisis 1919-1945
HIST 381 Islam and the West: The History of Mutual Perceptions
HIST 483 Seminar in Comparative History
SOCI 306 Personality and Society
SOCI 320 Personality and Politics
SOCI 331 World Population: Profiles and Trends
SOCI 361 Racial Inequality
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
Three courses from the following, with at least one course in Political Science, and at least 3 credits at the 400 level

POSC 270 Comparative Politics
POSC 311 Politics of Developing Nations
POSC 315 Third World Women in Politics
POSC 349 Southern African Politics
ANTH 225 Peasant Societies
ANTH 330 Development and Underdevelopment
ANTH 333 Peoples of Africa
ECON 311 Economics of Developing Countries
HIST 134 History of Africa
HIST 330 Peasants and Revolution in Africa
HIST 381 Islam and the West: The History of Mutual Perceptions
HIST 394 Africa Since 1960
HIST 395 Pan Africanism
HIST 397 History of South Africa
HIST 439 Women and Revolution in Africa
HIST 440 Women in Africa Under Colonial Rule
HIST 475 Seminar: The End of the French Empire

Asian Specialization
Three courses from the following, with at least one course in Political Science, and at least 3 credits at the 400 level

POSC 270 Comparative Politics
POSC 311 Politics of Developing Nations
POSC 315 Third World Women in Politics
POSC 427 Politics in China
POSC 428 Politics in Japan
POSC 429 Southeast Asia and the World
POSC 443 China and the World
ANTH 225 Peasant Societies
ANTH 330 Development and Underdevelopment
ECON 305 Comparative Economic Systems
ECON 311 Economics of Developing Countries
ECON 345 Economies in Transition
ECON 411 Economic Theory of Developing Countries
HIST 137 East Asian Civilization: China
HIST 138 East Asian Civilization: Japan
HIST 270 History of Modern Asia
HIST 368 History of China 1600-1920
HIST 369 China Since 1900
HIST 370 History of Modern Japan
HIST 371 Poshwar Japan
HIST 381 Islam and the West: The History of Mutual Perceptions
HIST 390 History of Modern Southeast Asia
HIST 393 History of Modern Vietnam
PHIL 479 Seminar in Asian History
PHIL 310 Chinese Religion and Philosophy
**European Specialization**
Three courses from the following, with at least three credits at the 400 level:
- POSC 270 Comparative Politics
- POSC 311 Politics of Developing Nations
- POSC 467 Latin American Political System
- POSC 480 Problems of Latin American Politics
- ANTH 225 Peasant Societies
- ANTH 327 Peoples of the Caribbean
- ANTH 330 Development and Underdevelopment
- ANTH 444 Analysis of European Economic Performance
- GEOG 454 New Europe: Culture, Geopolitics, Millieu
- HIST 254 The Jewish Holocaust, 1933-1945
- HIST 339 Topics in Modern European History
- HIST 351 Europe in Crisis, 1919-1945
- HIST 352 Contemporary European Society
- HIST 353 Modern Germany: 1770-1919
- HIST 354 Germany in the Twentieth Century 1914-Present
- HIST 357 The European City
- HIST 362 European Cultural History, 1748-1889
- HIST 363 European Cultural History Since 1889
- HIST 374 History of England to 1715
- HIST 375 Britain Since 1714
- HIST 474 Seminar 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**
Three courses from the following, with at least three credits at the 400 level:
- POSC 270 Comparative Politics
- POSC 311 Politics of Developing Nations
- POSC 312 Latin American Political System
- POSC 341 Latin American Studies: Countries
- POSC 450 Problems of Latin American Politics
- ANTH 225 Peasant Societies
- ANTH 327 Peoples of the Caribbean
- ANTH 330 Development and Underdevelopment
- ANTH 373 Peoples Cultures of Modern Latin America
- ANTH 380 Peoples Cultures of Mexico and Central America
- ECON 311 Economics of Developing Countries
- ECON 341 Economic Theory of Developing Countries
- ECON 426 Latin American Economics
- GEOG 226 Geography of Latin America
- GEOG 341 Introduction to Latin American History
- HIST 331 History of Caribbean I
- HIST 332 History of Caribbean II
- HIST 336 Topical in Latin American History
- HIST 349 Hispanic Societies: 1800-Present
- HIST 420 Seminar in 20th Century Latin American Revolutions
- HIST 477 Seminar in Latin American History

**Middle East Specialization**
Three courses from the following, with at least three credits at the 400 level:
- POSC 270 Comparative Politics
- POSC 311 Politics of Developing Nations
- POSC 315 Third World Women in Politics
- POSC 377 Arab-Israeli Politics
- ANTH 330 Development and Underdevelopment
- ECON 311 Economics of Developing Countries
- ECON 341 Environment of Multinational Corporations
- ECON 426 Economic Theory of Developing Countries
- HIST 131 Islamic Near East 1500 to Present
- HIST 377 Radicalism and Revolution: Islamic Movements/Modem Middle East
- HIST 380 History of the Arab-Israeli Conflict
- HIST 381 Islam and the West: The History of Mutual Perceptions
- HIST 444 Seminar: Women in Islamic Middle East

**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 452 Political System Post-Soviet Union

**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 45 of this catalog).

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

**PSYCHOLOGY**
Telephone: (302) 831-2271
www.psych.udel.edu/

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, and an interdisciplinary major between psychology and biology with an emphasis on neuroscience.

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 relations of the nervous system and of cognitive and social processes to behavior. Detailed instructions regarding an interdisciplinary major are available from the Department or the University 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, experimental, and applied psychology are represented in the introductory and 300-level courses, and more advanced courses enable students to pursue special interests in greater depth. Many courses offer experience in laboratory or field research. Laboratory experiences include the study of cognitive, learning, perceptual, physiological, developmental 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.

**DEGREE: BACHELOR OF ARTS**
**MAJOR: PSYCHOLOGY**

**CURRICULUM**

See page 88 for University and College requirements.

**MAJOR REQUIREMENTS**

| PSYC 100 | General Psychology | 3 |

Note that PSYC 100 is a prerequisite for all of the required higher level PSYC courses.
# ARTS AND SCIENCES

## UNDERGRADUATE

### DEGREE: BACHELOR OF ARTS

**MAJOR:** PSYCHOLOGY EDUCATION

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<td>PSYC 207</td>
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<td>PSYC 209</td>
<td>Measurement and Statistics</td>
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<td>PSYC 344</td>
<td>Psychology of Language</td>
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### ELECRIVES

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:

**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 45 of this catalog).

### MINOR IN PSYCHOLOGY

A minor in psychology requires 18 credits including PSYC 100; PSYC 207; PSYC 209; one course chosen from PSYC 310, 312, 314, 316, 320, 340, or 344; one course chosen from PSYC 350, 370, 380, 386, or 390; and any three credits in psychology (with the following restrictions except 301, 303, 325, and 334).

### RELIGIOUS STUDIES

**Telephone:** (302) 831-8077  
**E-mail:** AFOX@udel.edu  
[www.udel.edu/Philosophy/RelStud/](http://www.udel.edu/Philosophy/RelStud/)

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.
SOCIETY AND CRIMINAL JUSTICE

Telephone: (302) 831-2581
www.udel.edu/soc/

The Department of Sociology and Criminal Justice administers separate undergraduate programs in Sociology and in Criminal Justice.

SOCIETY

The sociology major is designed to provide students with a broad understanding of the dynamics of society and social relations. The curriculum includes 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 Emergency & Environmental Management, Health Services, Law and Society, and Social Welfare. Students changing to the Sociology major from other programs at UD must have a GPA of 2.0 or better.

Field Experience: One important feature of the sociology major program is a field experience in the emergency & environmental management, 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 weekly seminar for five weeks to discuss and analyze their experiences.

Advantages of the Field Experience Program
- Provides preprofessional training within selected areas of the student's choice.
- Offers future job-related experience with academic supervision and 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

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 201</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 301</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 312</td>
<td>3</td>
</tr>
</tbody>
</table>

Seven Sociology courses with no more than 9 credits at the 200-level... 21
At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466) or internship courses (464, 410, 412, 441, 442).

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: EMERGENCY & ENVIRONMENTAL MANAGEMENT

CURRICULUM

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<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 324 Issues in Emergency Management</td>
<td>6</td>
</tr>
<tr>
<td>SOCI 325 Disaster and Society</td>
<td></td>
</tr>
<tr>
<td>SOCI 470 Environmental Sociology</td>
<td></td>
</tr>
<tr>
<td>SOCI 326 Practicum in Emergency and Environmental Management</td>
<td>4</td>
</tr>
<tr>
<td>[This course is required but does not count as part of the 31 Sociology credits for the major.]</td>
<td></td>
</tr>
</tbody>
</table>

Any five courses in Sociology, with no more than 9 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) or internship courses (464, 410, 412, 441, 442, 444). The following courses are recommended:

<table>
<thead>
<tr>
<th>Course</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 204 Urban Communities</td>
<td></td>
</tr>
<tr>
<td>SOCI 209 Social Problems</td>
<td></td>
</tr>
<tr>
<td>SOCI 311 Sociology of Health Care</td>
<td></td>
</tr>
<tr>
<td>SOCI 322 Crowds, Cults, and Revolutions</td>
<td></td>
</tr>
<tr>
<td>SOCI 323 Sociology of Risk</td>
<td></td>
</tr>
<tr>
<td>SOCI 327 Sociology of Organizations</td>
<td></td>
</tr>
<tr>
<td>SOCI 331 World Population: Profiles and Trends</td>
<td></td>
</tr>
<tr>
<td>SOCI 341 Welfare and Society</td>
<td></td>
</tr>
<tr>
<td>SOCI 361 Racial Inequality</td>
<td></td>
</tr>
</tbody>
</table>

Five additional courses in related subjects 15

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

163
## MAJOR REQUIREMENTS

### Sociology

**CREDITS**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 201 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 301 Introduction of Sociological Research</td>
<td>4</td>
</tr>
<tr>
<td>SOC 311 Sociology of Health Care</td>
<td>3</td>
</tr>
<tr>
<td>SOC 312 Theories of Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Any five other courses in Sociology, with no more than 9 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) or internship courses (446, 410, 412, 441, 442).

### Related Work:

- SOC 410 Health Services Practicum and Seminar

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

## MAJOR REQUIREMENTS

### Sociology

**CREDITS**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 201 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 301 Introduction of Sociological Research</td>
<td>4</td>
</tr>
<tr>
<td>SOC 312 Theories of Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC 348 Theories of Social Work Practice</td>
<td>4</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 courses in Sociology, with no more than 9 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) or internship courses (446, 410, 412, 441, 442). The following courses are recommended:

- SOC 204 Urban Communities
- SOC 215 Race in Society
- SOC 302 Social Deviance
- SOC 303 Juvenile Delinquency
- SOC 304 Criminology
- SOC 305 Social Class and Inequality
- SOC 308 The Family
- SOC 346 Sociology of Aging
- SOC 361 Race, Power and Social Conflict
- SOC 415 Race, Class and Gender
- SOC 418 Race, Gender and Poverty

Eleven additional credits of related work are required and may include the following:

- PSYC 311 Politics and Poverty
- PSYC 325 Child Psychology
- PSYC 333 Psychology of Women
- PSYC 334 Abnormal Psychology
- IFST 235 Survey in Child and Family Services

Other courses chosen with the approval of 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
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 should 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 combine their academic and professional interests in complementary fields by fulfilling 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). Residency Requirement. At least 15 credits of courses applicable to the Criminal Justice major (courses with a CRJU prefix) must be taken at the University of Delaware.

DEGREE: BACHELOR OF ARTS

MAJOR: CRIMINAL JUSTICE

CURRICULUM

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

CRJU 110 Introduction to Criminal Justice 3
CRJU 201 Problems of Law Enforcement 3
CRJU 202 Problems of Criminal Justice 3
CRJU 203 Problems of Corrections 3

Criminal Justice courses at the 300 or 400-level (except CRJU 495) 18

A grade of C- or better is required in all CRJU courses.

No more than 6 credits of independent study (CRJU 366 or 466) may count toward the requirements for the major.

SOC 301 Introduction to Sociology 3
SOC 301 Introduction of Sociological Research (requires a grade of C- or better) 4
POSC 150 The American Political System 3
PSYC 100 General Psychology 3

One of the following four courses:

PSYC 301 Personality
PSYC 303 Introduction to Social Psychology
PSYC 325 Child Psychology
PSYC 334 Abnormal Psychology

One of the following four courses:

POSC 301 Topics in Constitutional Law
POSC 402 Civil Liberties: Individual Freedoms
POSC 403 Civil Liberties: Equal Protection Clause
POSC 405 Constitutional Law of the United States

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 CREDITS

See page 88 for University and College requirements.

MAJOR REQUIREMENTS

CRJU 110 Introduction to Criminal Justice 3
CRJU 201 Problems of Law Enforcement 3
CRJU 202 Problems of Criminal Judiciary 3
CRJU 203 Problems of Corrections 3
CRJU 301 Introduction to Legal Studies 3
CRJU 345 Sociology of Law 3
CRJU 346 Psychology and the Law 3
CRJU 375 Criminal Procedure 3
CRJU 425 Criminal Law and Social Policy 3
CRJU 446 Judging the Jury 3
CRJU 450 Prisoners and the Law 3
CRJU 457 Criminal Evidence 3
CRJU 475 Social Science and the Law 3

One of the following four courses: 3

CRJU 313 Capital Punishment and the Law
CRJU 320 Introduction to Criminal Law
CRJU 324 American Constitutional History
CRJU 346 Psychology and the Law

One of the following four courses: 3

POSC 101 Introduction to Sociology
POSC 102 Political Science
PSYC 100 General Psychology

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 practicum courses: 4

CRJU 495 Field Experience in Criminal Justice
SOCI 442 Seminar and Practicum in Law and Society

Or, with permission of advisor, a law-related internship supervised by a Criminal Justice or Sociology faculty member at a 356 or 456 course

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: CRIMINAL JUSTICE

Students wishing to receive an Honors B.A. in Criminal Justice must complete:
1. All requirements for the Bachelor of Arts degree with a major in Criminal Justice
2. All of the University's generic requirements for the Honors Baccalaureate degree
3. Twelve credits of honors courses in Criminal Justice. At least six credits must be at the 300 level or higher

MAJOR REQUIREMENTS

CRJU 110 Introduction to Criminal Justice 3
CRJU 201 Problems of Law Enforcement 3
CRJU 202 Problems of Criminal Judiciary 3
CRJU 203 Problems of Corrections 3
CRJU 301 Introduction to Legal Studies 3
CRJU 345 Sociology of Law 3
CRJU 346 Psychology and the Law 3
CRJU 375 Criminal Procedure 3
CRJU 425 Criminal Law and Social Policy 3
CRJU 446 Judging the Jury 3
CRJU 450 Prisoners and the Law 3
CRJU 457 Criminal Evidence 3
CRJU 475 Social Science and the Law 3

One of the following four courses: 3

CRJU 313 Capital Punishment and the Law
CRJU 320 Introduction to Criminal Law
CRJU 324 American Constitutional History
CRJU 346 Psychology and the Law

One of the following four courses: 3

POSC 101 Introduction to Sociology
POSC 102 Political Science
PSYC 100 General Psychology

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 practicum courses: 4

CRJU 495 Field Experience in Criminal Justice
SOCI 442 Seminar and Practicum in Law and Society

Or, with permission of advisor, a law-related internship supervised by a Criminal Justice or Sociology faculty member at a 356 or 456 course

ELECTIVES

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

THEATRE

Telephone: (302) 831-2201
www.udel.edu/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., scenery, lighting, properties, sound, stage management, and costumes, and who desire the opportunity to explore these production areas through the prescribed course work and laboratory experiences of a major while pursuing a liberal arts education. Students' practical experiences in the production areas described above will include participating in the behind-the-scenes aspects of the production of plays of the Professional Theatre Training Program (PTTP, the department's graduate-level conservatory).

The Theatre Department also offers a theatre minor designed to deepen the student's appreciation of the theatre as an art form within the context of a liberal arts education. Theatre coursework provides students with a beginning foundation for theatre appreciation, focusing on the art and craft of theatre making.

The Theatre Department also provides the University with a variety of general education courses in theatre designed to expand appreciation of, and future participation in, theatre. Students interested in performance opportunities should contact one of the amateur theatre groups on campus: E-52, Harrington Theatre Arts, or Khulumani Theatre Troupe.

DEGREE: BACHELOR OF ARTS
MAJOR: THEATRE PRODUCTION

CURRICULUM CREDITS

See page 88 for University and College requirements

MAJOR REQUIREMENTS

THEA 102 Introduction to Performance 3
THEA 104 Introduction to Theatre 3
THEA 200 Introduction to Theatre Production 3
THEA 202 Introduction to Theatre Design 3
THEA 203 Introduction to Costuming for the Stage 3
THEA 407 Theatre Practicum for Majors 6
THEA 300 Fundamentals of Stagecraft 3
THEA 301 Fundamentals of Properties Construction 3
THEA 302 Fundamentals of Stage Lighting 3
THEA 303 Fundamentals of Scene Painting 3
THEA 304 Fundamentals of Audio for the Theatre 3
THEA 305 Fundamentals of Costume Production 3
THEA 306 Fundamentals of Pattern Making 3
THEA 307 Fundamentals of Draping for the Stage 3
THEA 308 Fundamentals of Costume Crafts 3
THEA 309 Fundamentals of Stage Management 3
THEA 310 Fundamentals of Mask Making 3
THEA 311 Fundamentals of Scene Design 3
THEA 347 Special Topics in Theatre History 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
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

WOMEN’S STUDIES

Telephone: (302) 831-8474
www.udel.edu/WomensStudies

Women’s Studies is designed to foster knowledge of the rich heritage, challenges, and concerns of women. The program offers a B.A. degree in Women’s Studies, and an Honors Degree option.

MAJOR REQUIREMENTS

DEGREE: BACHELOR OF ARTS

MAJOR: WOMEN’S STUDIES

CURRICULUM

See page 88 for University and College requirements

MAJOR REQUIREMENTS

WOMS 201 Introduction to Women’s Studies .......................... 3
WOMS/PHIL 216 Introduction to Feminist Theory .................... 3
WOMS 410 Critical Issues in Feminist Scholarship .................. 1

Six credits in Women’s Studies courses or courses cross-listed with WOMS:

WOMS 203/PHIL 202 Contemporary Moral Problems
WOMS 205 Women in Arts and Humanities
WOMS/PHIL 210 Women and Religion
WOMS/ARTH 242 Woman as Image and Imagemaker
WOMS 260 Women: Cultural Representations
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/FLIT 320 Varying Authors and Genres
WOMS/FLIT 321 Topics: Chinese Literature in Translation
WOMS/FLIT 322 Topics: Classical Literature in Translation
WOMS/FLIT 326 Topics: Hispanic Literature in Translation
WOMS/FLIT 328 Topics: Japanese Literature in Translation
WOMS/FLIT 329 Topics: Italian Literature in Translation
WOMS/FLIT 330 Varying Authors, Themes, and Movements
WOMS/HIST 334 African American Women’s History
WOMS/ENGL 332 Studies in Nineteenth Century Literature
WOMS/ENGL 353 Twentieth Century British Literature
WOMS/HIST 372 Popular Culture in Urban Japan
WOMS/FLIT 373 Topics: Russian and Soviet Culture in Translation
WOMS/ENGL 380 Women Writers
WOMS/ENGL 381 Women in Literature
WOMS/ENGL 382 Studies in Multicultural Literature in English
WOMS/FLIT 383 Topics: Chinese Culture in Translation
WOMS/HIST 411 Seminar in American History
WOMS/HIST 439 Women and Revolution in Africa
WOMS/HIST 444 Seminar: Women in the Islamic Middle East
WOMS/ENGL 465 Studies in Literature Genres, Types, and Movements
WOMS/ANG/ART 471 Seminar in Medieval History
WOMS/HIST 475 Seminar in Modern European History
WOMS/ENGL 480 Seminar

Six credits in Women’s Studies courses or courses cross-listed with social science departments chosen from the following list (only sections cross-listed with WOMS):

WOMS/SOCI 206 Women and Work
WOMS/SOCI 211 Men, Conflict, and Social Change
WOMS/SOCI 213 Men and Women in American Society
WOMS/UNG 222 Language and Gender
WOMS 240 Women and Violence
WOMS/PSOC 315 Third World Women in Politics
WOMS/POS 323 Introduction to Women and Politics
WOMS/PSYC 333 Psychology of Women
WOMS/CRJU 350 Gender and Criminal Justice
WOMS/ANTH 363 Women in Cross-cultural Perspective
WOMS/ECON 385 Women and the Economy
WOMS/IFST/HESC 401 Foundations of Human Sexuality
WOMS 402/PSOC 401 Topics in Constitutional Law
WOMS/SOCI 407 Sociology of Sex and Gender
WOMS/IFST 409 Domestic Violence Services
WOMS/SOCI/BAMS 415 Race, Class, and Gender
WOMS/SOCI/BAMS 418 Race, Gender, and Poverty
WOMS/IFST 430 Family Life Education
WOMS/POS 436 Politics and Literature
WOMS/SOCI/GEOG/IFST 460 Women in International Development

Three credits in WOMS science-related courses chosen from the following list:

WOMS/CSCC 233 Women, Biology, and Medicine
WOMS/ANTH 305 The Evolution of Human Sex Roles and Reproduction
WOMS/PHIL 227 Race, Gender, Science
WOMS/CSCC/PHIL 389 Topics: Women and Health Issues

Nine additional credits in courses in Women’s Studies or cross-listed with Women’s Studies. These may include, but are not limited to, courses listed under Women’s Studies Humanities, Social Sciences, and Science-Related Courses, which have not been used to satisfy those requirements.

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS

MAJOR: WOMEN’S STUDIES

CONCENTRATION: WOMEN IN GLOBAL PERSPECTIVE

CURRICULUM

See page 88 for University and College requirements

MAJOR REQUIREMENTS

WOMS 201 Introduction to Women’s Studies .................................. 3
WOMS 202 Introduction to International Women’s Studies ............... 3
WOMS/PHIL 216 Introduction to Feminist Theory .......................... 3
WOMS 410 Critical Issues in Feminist Scholarship ...................... 1

Students must take twelve of their credits of coursework from two clusters, Country or Culture Specific Courses (CC) and Comparative Courses (CC), up to nine of the concentration credits may be from one cluster. They appear designated in the following lists.
Six credits in Women’s Studies courses or courses cross-listed with History and/or humanities departments chosen from the following list (only sections cross-listed with WOMS) 6
WOMS 203/PHEL 202 Contemporary Moral Problems
WOMS 205 Women in the Arts and Humanities
WOMS/PHEL 210 Women and Religion
WOMS/ARTH 242 Woman as Image and Imagemaker
WOMS 260 Women: Cultural Representations
WOMS/HIST 300 Women in American History
WOMS/MUSC 302 Women in Music: Alternate Survey
WOMS/ARTH 311 Renaissance Women, Society and Art (CS)
WOMS/ENGL 318 Studies in Film
WOMS/FILM 320 Varying Authors and Genres
WOMS/FILM 321 Topics: Chinese Literature in Translation (CS)
WOMS/FILM 322 Topics: Classical Literature in Translation (CS)
WOMS/FILM 326 Topics: Hispanic Literature in Translation (CS)
WOMS/FILM 328 Topics: Japanese Literature in Translation (CS)
WOMS/FILM 329 Topics: Italian Literature in Translation (CS)
WOMS/FILM 330 Varying Authors, Themes, and Movements
WOMS/HIST 334 African American Women’s History
WOMS/ENGL 352 Studies in Nineteenth Century Literature
WOMS/ENGL 353 Twentieth Century British Literature (CS)
WOMS/HIST 372 Popular Culture in Urban Japan (CS)
WOMS/FILM 375 Topics: Russian and Soviet Culture in Translation (CS)
WOMS/ENGL 380 Women Writers
WOMS/ENGL 381 Women in Literature
WOMS/ENGL 382 Studies in Multicultural Literature in English (CC)
WOMS/FILM 383 Topics: Chinese Culture in Translation (CS)
WOMS/HIST 411 Seminar in American History
WOMS/HIST 439 Women and Revolution in Africa (CC)
WOMS/HIST 444 Seminar: Women in the Islamic Middle East (CC)
WOMS/ENGL 465 Studies in Literature Genres, Types, and Movements
WOMS/HIST 471 Seminar in Medieval History
WOMS/HIST 475 Seminar in Modern European History
WOMS/ENGL 480 Seminar

Electives
Courses cross-listed with Women’s Studies and offered in special sessions programs abroad are counted for concentration credit
After required courses are completed to fulfill both major and concentration requirements, 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 45 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.

Minor in Women’s Studies
A minimum of 18 credit hours is required, which must include the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOMS 201</td>
<td>Introduction to Women’s Studies</td>
<td>3</td>
</tr>
<tr>
<td>Two courses in WOMS or cross-listed with WOMS at or above the 300 level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Three elective courses in WOMS or cross-listed with WOMS</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Note: No more than 9 credits may be taken in any one department. No more than 6 credits in WOMS experimental courses (x67-numbered) may be counted toward the 18-credit requirement.

A minimum grade of C- is required in each course.

Three credits in WOMS science-related courses chosen from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOMS/CSCC 233</td>
<td>Women, Biology, and Medicine</td>
</tr>
<tr>
<td>WOMS/ANTH 305</td>
<td>The Evolution of Human Sex Roles and Reproduction</td>
</tr>
<tr>
<td>WOMS/PHEL 327</td>
<td>Race, Gender, Science</td>
</tr>
<tr>
<td>WOMS/CSSC/PHEL 389</td>
<td>Topics: Women and Health Issues</td>
</tr>
</tbody>
</table>

Six additional credits in courses in Women’s Studies or cross-listed with Women’s Studies. These may include, but are not limited to, courses listed under Women’s Studies Humanities, Social Sciences, and Science-Related Courses, which have not been used to satisfy those requirements 6

The only major elective course that fulfills requirements for the concentration is: WOMS 250 Topics in International Women’s Studies (CS)