



COLLEGE OF ARTS AND SCIENCES

UNDERGRADUATE PROGRAMS

- **Advisement**
- **General Degree Requirements Information**
- **Course of Study Options**
- **Bachelor of Arts**
- **Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music**
- **Bachelor of Arts in Liberal Studies**
- **Associate Degrees**
- **Dean's Scholar Program**
- **Liberal Arts/Engineering**
- **Teacher Education Programs**
- **Pre-Law**
- **Premedicine and Pre dentistry**
- **Medical Scholars Program**
- **Courses Approved for Second Writing Requirement**
- **Courses Approved for Breadth Requirements**
- **Majors and Minors**
- **African Studies**
- **Anthropology**
- **Art**
- **Art Conservation, Material Culture Preservation**
- **Art History**
- **Biological Sciences**
- **Black American Studies**
- **Chemistry and Biochemistry**
- **Communication**
- **Comparative Literature**
- **Computer and Information Sciences**
- **East Asian Studies**
- **English**
- **European Studies**
- **Foreign Languages and Literatures**
- **Geography**
- **History**
- **Irish Studies**
- **Islamic Studies**
- **Jewish Studies**
- **Journalism**
- **Latin American Studies**
- **Legal Studies**
- **Liberal Studies**
- **Linguistics and Cognitive Science**
- **Material Culture Studies**
- **Mathematical Sciences**
- **Mathematics and Economics**
- **Math: Quantitative Biology**
- **Medical Humanities**
- **Medieval Studies**
- **Military Science-Army ROTC**
- **Music**
- **Neuroscience**
- **Philosophy**
- **Physics and Astronomy**
- **Political Science, International Relations, and Public Administration**
- **Psychology**
- **Religious Studies**
- **Sexualities and Gender Studies**
- **Sociology and Criminal Justice**
- **Theatre**
- **Women's Studies**

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. 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 advise students who plan to study dentistry, law, medicine, social work, or veterinary medicine. Dean's Office personnel will be glad to direct students to appropriate faculty members.

GENERAL DEGREE REQUIREMENTS INFORMATION

PASS/FAIL GRADE OPTION. Courses to fulfill degree requirements may not be taken pass/fail unless they are offered only on a pass/fail basis. Students may elect to take one course per semester pass/fail. A total of no more than 24 credits may be taken pass/fail for a Bachelor's degree and no more than 12 credits for an Associate's degree. For more detailed information on the pass/fail grade option, see the chapter on Academic Regulations.

PHYSICAL EDUCATION. A maximum of two credits of HESC 120 may be counted toward the required minimum credits of all degrees in the college.

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

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

COURSE OF STUDY OPTIONS

SINGLE MAJOR. A departmental major consists of at least 30 credits with the specified and elective courses determined by the individual department.

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 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 page 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, college skills and breadth requirements, 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.

CORE CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS	
ENGL 110 Critical Reading and Writing (minimum grade C-)	3
ENGL 110 will be taken by all students as freshmen. 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. Transfer students who have completed college-level courses in research writing should check the English Department website to see if they qualify for exemption: http://www.english.udel.edu/transfer.htm .	
First Year Experience (see page 68)	0-4
Discovery Learning Experience (see page 68)	3

MULTICULTURAL COURSE

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 3

BACHELOR OF ARTS COLLEGE SKILL REQUIREMENTS

Second Writing Requirement: (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 designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, pages 93-95.)

Mathematics: 0-4

(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)
- MATH 127 Mathematics and Quantitative Reasoning

OPTION TWO:

- 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)
- or
- MATH 117

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: 0-12
(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, or who have gained proficiency in a foreign language by other means, may attempt to fulfill the requirement in that language by taking an exemption examination through the Foreign Languages and Literatures Department (see page 122).

COLLEGE BREADTH REQUIREMENTS

These requirements apply to all College of Arts and Sciences Bachelor of Arts degrees.

Group A 9

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

Group B 9

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

Group C 9

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

Group D 10

The study of natural phenomena through experiment or analysis. Ten 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 95-99.

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 page 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 (BALS). 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 (AA) 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 coordinated by the Associate in Arts office, 102 Elliott Hall, (302) 831-4555.

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

First Year Experience (see page 68) 0-4

Multicultural Course (see page 69-71) 3

SKILL REQUIREMENTS

Mathematics (one of the following) 0-4

- MATH 113
- or
- MATH 127
- 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 10
 At least one course in Group D must be a laboratory science.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF..... 60

ASSOCIATE IN SCIENCE REQUIREMENTS

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

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

- Writing**
- ENGL 110(minimum grade C-) 3
 or
 Exemption 0
- First Year Experience (see page 68) 0-4
- Multicultural Course** (see pages 69-71) 3

SKILL REQUIREMENTS

- Mathematics** (one of the following) 6-8
 MATH 221-222
 or
 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
- Group D.** Natural Phenomena 12
 At least one course in Group D must be a laboratory science.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. Students may opt to take one free elective course per semester pass/fail, but the total number of credits taken on

a pass/fail basis may not exceed 12, excluding courses that are graded pass/fail only. Courses numbered below 100-level do not count toward a degree.

CREDITS TO TOTAL A MINIMUM OF..... 60

DEAN'S SCHOLAR PROGRAM

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 curricula 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 Program Director, 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 Program Director 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, page 196.

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, English, foreign languages (French, German, Italian, Latin, Spanish), mathematics, physics, and social studies (anthropology, 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 page 215) 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 PREDEPARTMENTISTRY

Preparation for admission to professional schools in medicine, dentistry, pharmacy, 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 and the Thomas Jefferson University College of Health Professions sponsor a joint program leading to a Bachelor of Science degree at the University of Delaware and a graduate degree in pharmacy at Thomas Jefferson University.

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 practica in 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) 831-2793 or consult the Medical Scholars web site at:

www.udel.edu/MedScholars.

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 498 Topics in Biology

BLACK AMERICAN STUDIES (BAMS)

BAMS 415 Race, Class and Gender (cross-listed with SOCI 415 and WOMS 415)
BAMS 416 Psychological Perspectives; Black American
BAMS 418 Race, Gender and Poverty (cross-listed with SOCI 418)

CHEMISTRY (CHEM)

CHEM 410 History of Chemistry

COMMUNICATION (COMM)

COMM 311 Public Relations Writing
COMM 329 Broadcast Newswriting
COMM 418 Topics in Mass Communication
COMM 424 Media Message Analysis

CRIMINAL JUSTICE (CRJU)

CRJU 312 History of Crime and Criminal Justice (cross-listed with HIST 312)
CRJU 428 Corporate Crime (cross-listed with SOCI 428)
CRJU 452 Drugs and the Criminal Justice System (cross-listed with SOCI 452)
CRJU 456 Lawyers and Society (cross-listed with SOCI 456)
CRJU 460 Criminal Justice Policy
CRJU 489 Crime Victims and Victims' Rights

ENGLISH (ENGL)

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

FOREIGN LANGUAGES AND LITERATURES (FLLT)

FLLT 321	Topics: Chinese Literature in Translation
FLLT 328	Topics in Japanese Literature in Translation (cross-listed with WOMS 328)
FLLT 329	Topics in Italian Literature in Translation (cross-listed with WOMS 329)
FLLT 330	Varying Authors, Themes and Movements
FLLT 338	Light and Shadow - Japanese Films
FLLT 380	Topics in Japanese Culture in Translation

GEOGRAPHY (GEOG)

GEOG 346	Urban Cultural Geography
GEOG 445	Method and Theory in Geography

GEOLOGY (GEOL)

GEOL 401	Senior Seminar: Topics in Geoscience
----------	--------------------------------------

HISTORY (HIST)

HIST 130	Islamic Near East: 600-1500
HIST 131	Islamic Near East: 1500 to the Present
HIST 300	Women in American History (cross-listed with WOMS 300)
HIST 302	The World in Our Time
HIST 307	The U.S. in the Early National Period
HIST 308	The U.S. in the Antebellum Period
HIST 309	U.S. Business and Political Economy
HIST 312	History of Crime and Criminal Justice
HIST 313	The United States, 1877-1914
HIST 314	The United States, 1914-1945
HIST 318	Colonial America
HIST 319	Revolutionary America
HIST 323	The Old South
HIST 328	American Industrial Society: 1815 to Present
HIST 330	Peasants and Revolution in Africa
HIST 341	Ancient Rome
HIST 344	Renaissance Europe
HIST 345	Reformation Europe
HIST 346	Age of Louis XIV
HIST 347	The French Revolution and Napoleon
HIST 348	History of Spain: 1479 to Present
HIST 349	Hispanic Societies: 1800 to Present
HIST 352	Contemporary European Society
HIST 353	Modern Germany: 1770 to 1919
HIST 354	Germany in 20th Century: 1914 to Present
HIST 355	Early Modern Intellectual History
HIST 356	Modern European Intellectual History
HIST 359	Soviet Russia: 1917 to 1990
HIST 361	Twentieth Century France
HIST 365	Topics in East Asian History
HIST 368	Modern China: 1600-1920s
HIST 369	China Since 1900
HIST 370	History of Modern Japan
HIST 372	Popular Culture in Urban Japan
HIST 373	Modern Ireland: 1534 to Present
HIST 377	Radicalism and Revolution: Islamic Movements in the Modern Middle East
HIST 378	Nationalism in the Modern Middle East
HIST 380	History of the Arab-Israeli Conflict
HIST 391	History of World War II: Asia and the Pacific
HIST 393	History of Modern Vietnam
HIST 397	History of South Africa
HIST 411	Seminar in American History
HIST 430	Seminar in Twentieth-Century Latin American Revolutions
HIST 439	Women and Revolution in Africa (cross-listed with WOMS 439)
HIST 440	Seminar in Africa Under Colonial Rule
HIST 471	Seminar in Medieval History (cross-listed with WOMS 472)
HIST 473	Seminar in Early Modern European History (cross-listed with

WOMS 473)	
HIST 474	Seminar in British History
HIST 475	Seminar in Modern European History
HIST 477	Seminar in Latin American History
HIST 479	Seminar in Asian History

MATHEMATICS (MATH)

MATH 308	History of Mathematical Ideas
MATH 512	Contemporary Applications of Math

MUSIC (MUSC)

MUSC 311	Music History: 400 through 1600
MUSC 312	Music History: 1600 through 1827
MUSC 313	Music History: 1827-Present
MUSC 345	History of Theatre: American Musical Theatre

PHILOSOPHY (PHIL)

PHIL 444	Medical Ethics
PHIL 463	Ethical Theory
PHIL 465	Senior Seminar

POLITICAL SCIENCE (POSC)

POSC 380	Introduction to Law
POSC 387	American Political Thought
POSC 408	International Organizations
POSC 414	Problems in American Foreign Policy
POSC 415	Force and World Politics
POSC 422	Political Leadership
POSC 426	Latin American Political Systems
POSC 433	African Politics
POSC 434	Political Thought I
POSC 435	Political Thought II
POSC 436	Politics and Literature
POSC 445	Human Rights and World Politics
POSC 446	International Human Rights on Film (taught in Southern Delaware)
POSC 448	Theories of International Relations
POSC 450	Problems of Latin American Politics

PSYCHOLOGY (PSYC)

PSYC 314	Brain and Behavior
PSYC 350	Developmental Psychology
PSYC 380	Psychopathology
PSYC 394	Cultural Psychology
PSYC 414	Drugs and the Brain
PSYC 415	History and Systems of Psychology
PSYC 416	Psychological Perspectives on the Black American (cross-listed with BAMS 432)
PSYC 420	Mental Illness: Historical & Critical Perspectives
PSYC 421	Biology and Behavior
PSYC 425	Family Conflict and the Child
PSYC 445	Topics in Adolescent Psychology

SOCIOLOGY (SOCL)

SOCL 305	Social Class and Inequality
SOCL 407	Sociology of Sex and Gender
SOCL 415	Race, Class and Gender (cross-listed with BAMS 415 and WOMS 415)
SOCL 418	Race, Gender and Poverty (cross-listed with BAMS 418)
SOCL 422	Fads and Fashions
SOCL 428	Corporate Crime (cross-listed with CRJU 428)
SOCL 444	Approaches to Qualitative Inquiry
SOCL 450	Politics and Society
SOCL 452	Drugs and the Criminal Justice System (cross-listed with CRJU 452)
SOCL 456	Lawyers and Society (cross-listed with CRJU 456)
SOCL 470	Environmental Sociology

UNIVERSITY (UNIV)

UNIV 402	Senior Thesis (all sections)
UNIV 490	Honors Tutorial: Humanities
UNIV 491	Honors Tutorial: Natural/Social Science

WOMEN'S STUDIES (WOMS)

WOMS 300	Women in American History (cross-listed with HIST 300)
WOMS 321	Topics: Chinese Literature in Translation
WOMS 328	Topics in Japanese Literature in Translation (cross-listed with FLLT 328)
WOMS 329	Topics in Italian Literature in Translation (cross-listed with FLLT 329)
WOMS 415	Race, Class and Gender (cross-listed with BAMS 415 and

WOMS 439	SOCI 415) Women and Revolution in Africa (cross-listed with HIST 439)
WOMS 472	Seminar in Medieval History (cross-listed with HIST 471)
WOMS 480	Seminar (cross-listed with CMLT 480 and ENGL 480)

COURSES APPROVED FOR BREADTH REQUIREMENTS

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

AMERICAN MATERIAL CULTURE STUDIES (AMCS)

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

ANTHROPOLOGY (ANTH)

ANTH 205	Anthropology and Human Nature
ANTH 216	Introduction to Material Culture Studies (cross-listed with AMCS 216 and HIST 216)
ANTH 227	American Culture
ANTH 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 129	Design in Visual Arts
ART 204	Media/Design/Culture
ART 315	Issues in Contemporary Art

ART HISTORY (ARTH)

ARTH 101	Visual Culture
ARTH 150	Monuments and Methods in the History of Art
ARTH 151	Myth, Religion, and Art
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)

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 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 320	The Bible as Literature
ENGL 324	Shakespeare
ENGL 348	Contemporary Jewish-American Literature (cross-listed with JWST 348)
ENGL 368	Literature and Science
ENGL 369	Literature and Medicine
ENGL 380	Women Writers (cross-listed with JWST 380 and WOMS 380)

FOREIGN LANGUAGES AND LITERATURES (FLLT)

FLLT 202	Biblical and Classical Literature (cross-listed with CMLT 202 and ENGL 202)
FLLT 316	Classical Mythology (cross-listed with CMLT 316)

FLLT 320	Varying Authors and Genres (cross-listed with CMLT 320 and WOMS 320)
FLLT 321	Topics: Chinese Literature in Translation
FLLT 322	Topics: Classical Literature in Translation (cross-listed with CMLT 322)
FLLT 324	Topics: French Literature in Translation (cross-listed with WOMS 324)
FLLT 326	Topics: Hispanic Literature in Translation (cross-listed with WOMS 326)
FLLT 327	Topics: Russian Literature in Translation
FLLT 328	Topics: Japanese Literature in Translation (cross-listed with WOMS 328)
FLLT 329	Topics: Italian Literature in Translation
FLLT 338	Light and Shadow - Japanese Films
FLLT 436	Politics and Literature (cross-listed with POSC 436 and WOMS 436)

FRENCH (FREN)

FREN 211	French Reading and Composition
FREN 355	Special Topics
FREN 454	French Cinema
FREN 456	French Theater Workshop

GEOGRAPHY (GEOG)

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

GERMAN (GRMN)

GRMN 211	German Reading and Composition: Short Fiction (to be taught in German)
GRMN 355	Special Topics

HISTORY (HIST)

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

JEWISH STUDIES (JWST)

JWST 348	Contemporary Jewish-American Literature (cross-listed with ENGL 348)
----------	--

MUSIC (MUSC)

MUSC 101	Appreciation of Music
MUSC 102	Appreciation of Music
MUSC 103	Introduction to Italian Opera
MUSC 104	Introduction to Opera
MUSC 105	Fundamentals of Music I
MUSC 106	Fundamentals of Music II
MUSC 195	Harmony I
MUSC 196	Harmony II
MUSC 197	Jazz Harmony
MUSC 209	History of Spanish Music
MUSC 213	French Musical Culture
MUSC 310	Churches and Cathedrals of London

PHILOSOPHY (PHIL)

PHIL 100	Philosophies of Life (cross-listed with WOMS 100)
PHIL 101	Great Western Philosophers
PHIL 102	Introduction to Philosophy
PHIL 201	Social and Political Philosophy
PHIL 202	Contemporary Moral Problems (cross-listed with WOMS 203)
PHIL 204	World Religions
PHIL 210	Women and Religion (cross-listed with WOMS 210)
PHIL 216	Introduction to Feminist Theory (cross-listed with WOMS 216)
PHIL 241	Ethical Issues in Health Care
PHIL 244	Philosophy of Art
PHIL 246	Philosophical Perspectives of Medicine
PHIL 317	American Philosophy
PHIL 340	Cross Cultural Environmental Ethics
PHIL 344	Science and Religion (cross-listed with SCEN 344)
PHIL 444	Medical Ethics

POLITICAL SCIENCE (POSC)

POSC 285	Currents in Political Theory
POSC 333	Contemporary Political Ideologies
POSC 434	Political Thought I: Plato to Machiavelli
POSC 435	Political Thought II: Machiavelli to Present
POSC 436	Politics and Literature (cross-listed with FLLT 436 and WOMS 436)

PLANT SCIENCE

PLSC 232 Basic Landscape Design

SCIENCE (SCEN)

SCEN 344 Science and Religion (cross-listed with PHIL 344)

SOCIOLOGY (SOCL)

SOCL 350 Social Inequality and Film

THEATRE (THEA)

THEA 102 Introduction to Performance
 THEA 104 Introduction to Theatre and Drama
 THEA 106 The Theatrical Experience Abroad
 THEA 200 Introduction to Theatre Production
 THEA 202 Introduction to Theatre Design
 THEA 203 Introduction to Costuming
 THEA 206 Introduction to Dance
 THEA 410 Fundamentals of Dramaturgy

UNIVERSITY (UNIV)

UNIV 490 Honors Tutorial: Humanities

WOMEN'S STUDIES (WOMS)

WOMS 203 Contemporary Moral Problems (cross-listed with PHIL 202)
 WOMS 205 Women in the Arts and Humanities
 WOMS 210 Women and Religion (cross-listed with PHIL 210)
 WOMS 216 Introduction to Feminist Theory (cross-listed with PHIL 216)
 WOMS 320 Varying Authors and Genres (cross-listed with CMLT 320 and FLIT 320)
 WOMS 326 Hispanic Literature in Translation (cross-listed with FLIT 326)
 WOMS 328 Topics: Japanese Literature in Translation (cross-listed with FLIT 328)
 WOMS 380 Women Writers (cross-listed with ENGL 380 and JWST 380)
 WOMS 436 Politics and Literature (cross-listed with FLIT 436 and POSC 436)

GROUP B: THE STUDY OF CULTURE AND INSTITUTIONS OVER TIME**ANTHROPOLOGY (ANTH)**

ANTH 101 Introduction to Social and Cultural Anthropology
 ANTH 105 Introduction to Historical Archaeology
 ANTH 201 Visualizing Humanity: Ethnographic Film
 ANTH 228 Peoples and Cultures of the Southwest
 ANTH 261 Peoples and Cultures of the Middle East
 ANTH 265 High Civilizations of the Americas
 ANTH 278 Historic Cultures of the Mid-Atlantic Region (cross-listed with HIST 278)
 ANTH 323 Prehistory of South America
 ANTH 333 Peoples of Africa
 ANTH 351 Race in Latin America
 ANTH 360 American Anabaptists
 ANTH 375 Peoples and Cultures of Modern Latin America
 ANTH 382 Anthropology and Business

ART HISTORY (ARTH)

ARTH 153 Introduction to Art History I
 ARTH 154 Introduction to Art History II
 ARTH 156 Rome: From Caesar to Fellini
 ARTH 163 Architecture in Global Contexts
 ARTH 204 Art, Power and Architecture in Africa
 ARTH 206 Introduction to Art and Architecture in Africa
 ARTH 207 Art of Ancient Egypt and Near East
 ARTH 208 Greek and Roman Art
 ARTH 209 Early Medieval Art 200-1000 A.D.
 ARTH 210 Later Medieval Art 1000-1400 A.D.
 ARTH 217 Early Renaissance Art
 ARTH 218 High Renaissance and Mannerist Art
 ARTH 220 Italian Renaissance Architecture
 ARTH 222 Baroque Art
 ARTH 225 Eighteenth Century Art
 ARTH 227 Modern Art I
 ARTH 228 Modern Art II
 ARTH 230 American Art: 1607-1865
 ARTH 231 American Art: 1865-Present
 ARTH 232 Art of Latin America
 ARTH 233 Art and Architecture in China
 ARTH 234 Art of Japan

ARTH 235 Art of India
 ARTH 236 Arts of the Islamic World
 ARTH 245 The American Home
 ARTH 250 Rulers' Images from Augustus to George Washington
 ARTH 302 Prints and Society
 ARTH 303 Art of the Spanish Renaissance
 ARTH 304 Northern Baroque Art
 ARTH 305 Italian Baroque: Metaphor and Marvel
 ARTH 310 Role of the Artist in Society
 ARTH 311 Renaissance Women, Society and Art
 ARTH 318 History of Photography
 ARTH 440 Seminar in Latin American Art

BLACK AMERICAN STUDIES (BAMS)

BAMS 134 History of Africa (cross-listed with HIST 134)
 BAMS 220 The American Civil Rights Movement (cross-listed with HIST 220)
 BAMS 304 History of Black America to the Civil War (cross-listed with HIST 325)
 BAMS 306 History of Black America Since the Civil War (cross-listed with HIST 326)
 BAMS 313 African American Literature I (cross-listed with ENGL 344)

CHEMISTRY (CHEM)

CHEM 410 History of Chemistry

COMPARATIVE LITERATURE (CMLT)

CMLT 207 Great Writers of the Western World I (cross-listed with ENGL 211)
 CMLT 208 Great Writers of the Western World II (cross-listed with ENGL 212)
 CMLT 317 Film History (cross-listed with ENGL 317)
 CMLT 321 Medieval Literature and Culture (cross-listed with ENGL 321)
 CMLT 330 Varying Authors, Themes, and Movements (cross-listed with FLIT 330 and WOMS 330)
 CMLT 341 Theatre/Drama: Classic/Medieval (cross-listed with THEA 341)
 CMLT 342 Theatre/Drama: Renaissance to 1700 (cross-listed with THEA 342)
 CMLT 343 Theatre/Drama: 1700 to 1900 (cross-listed with THEA 343)
 CMLT 344 Theatre/Drama: 1900 to Present (cross-listed with THEA 344)

CONSUMER STUDIES (CNST)

FASH 214 Costume History Before 1600
 FASH 224 Clothing Design and Production: 1600-Edwardian
 FASH 319 Dress and Culture

ECONOMICS (ECON)

ECON 315 Economic History of Colonial America
 ECON 316 Economic History of the U.S.

ENGLISH (ENGL)

ENGL 205 British Literature to 1660
 ENGL 206 British Literature 1660 to Present
 ENGL 211 Great Writers of the Western World I (cross-listed with CMLT 207)
 ENGL 212 Great Writers of the Western World II (cross-listed with CMLT 208)
 ENGL 317 Film History (cross-listed with CMLT 317)
 ENGL 321 Medieval Literature and Culture (cross-listed with CMLT 321)
 ENGL 340 American Literature to the Civil War
 ENGL 341 American Literature: Civil War to World War II
 ENGL 344 African American Literature I (cross-listed with BAMS 313)
 ENGL 345 African American Literature II
 ENGL 349 Introduction to Jewish Sources (cross-listed with JWST 349)

FOREIGN LANGUAGES AND LITERATURES (FLLT)

FLLT 330 Varying Authors, Themes, and Movements (cross-listed with CMLT 330 and WOMS 330)
 FLIT 375 Topics: Russian and Soviet Culture in Translation
 FLIT 380 Topics: Japanese Culture in Translation

FRENCH (FREN)

FREN 301 Introduction to French Literature: Prose (to be taught in French)
 FREN 302 Introduction to French Literature: Poetry and Theatre (to be taught in French)
 FREN 325 French Civilization I (to be taught in French)
 FREN 326 French Civilization II (to be taught in French)
 FREN 453 Contemporary French Civilization

GEOGRAPHY (GEOG)

GEOG 225 Historical Geography of the United States

GERMAN (GRMN)

- GRMN 311 Introduction to Modern German Literature (to be taught in German)
 GRMN 325 German Civilization and Culture (to be taught in German)

HEBREW (HEBR)

- HEBR 209 Contemporary Israel through Film

HISTORY (HIST)

- HIST 101 Western Civilization to 1648
 HIST 102 Western Civilization: 1648 to Present
 HIST 103 World History I
 HIST 104 World History II
 HIST 130 Islamic Near East: 600-1500
 HIST 131 Islamic Near East: 1500 to Present
 HIST 134 History of Africa (cross-listed with BAMS 134)
 HIST 135 Introduction to Latin American History
 HIST 137 East Asian Civilization: China
 HIST 138 East Asian Civilization: Japan
 HIST 205 United States History
 HIST 206 United States History
 HIST 210 Introduction to Military History
 HIST 220 The American Civil Rights Movement (cross-listed with BAMS 220)
 HIST 221 Film and American Society
 HIST 243 Ancient Religion & Civilization
 HIST 270 History of Modern Asia
 HIST 278 Historic Cultures of the Mid-Atlantic Region (cross-listed with ANTH 278)
 HIST 300 Women in American History (cross-listed with WOMS 300)
 HIST 306 History of American Foreign Policy
 HIST 310 Postwar America I: 1945-1963
 HIST 311 Postwar America II: 1963-Present
 HIST 318 Colonial America
 HIST 319 Revolutionary America
 HIST 325 History of Black America to the Civil War (cross-listed with BAMS 304)
 HIST 326 History of Black America Since the Civil War (cross-listed with BAMS 306)
 HIST 330 Peasants and Revolution in Africa
 HIST 340 Ancient Near East and Greece
 HIST 341 Ancient Rome
 HIST 344 Renaissance Europe
 HIST 345 Reformation Europe
 HIST 348 History of Spain: 1800 to Present
 HIST 349 Hispanic Societies: 1492 to Present
 HIST 353 Modern Germany: 1770 to 1919
 HIST 354 Germany in 20th Century: 1914 to Present
 HIST 355 Early Modern Intellectual History
 HIST 356 Modern European Intellectual History
 HIST 357 The European City
 HIST 359 Soviet Russia: 1917 to 1990
 HIST 361 Twentieth Century France
 HIST 365 Topics in East Asian Studies
 HIST 368 Modern China: 1600-1920s
 HIST 369 China Since 1900
 HIST 370 History of Modern Japan
 HIST 371 Postwar Japan
 HIST 372 Popular Culture in Urban Japan
 HIST 373 Modern Ireland: 1534-Present
 HIST 374 History of England to 1715
 HIST 375 Britain since 1714
 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 British 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

- ITAL 326 Italian Civilization and Culture II

JEWISH STUDIES (JWST)

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

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: 1827 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 Countries
 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 301 Survey of Spanish Literature (to be taught in Spanish)
 SPAN 302 Survey of Spanish Literature (to be taught in Spanish)
 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)

THEATRE (THEA)

- THEA 341 Theatre/Drama: Classic/Medieval (cross-listed with CMLT 341)
 THEA 342 Theatre/Drama: Renaissance to 1700 (cross-listed with CMLT 342)
 THEA 343 Theatre/Drama: 1700 to 1900 (cross-listed with CMLT 343)
 THEA 344 Theatre/Drama: 1900 to Present (cross-listed with CMLT 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 CMLT 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 210 Peoples and Cultures of Southeast Asia
 ANTH 211 Peoples and Cultures of East Asia
 ANTH 222 Technology and Culture

ANTH 223	Food, Gender 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 311	Anthropology of Tourism
ANTH 320	Prehistory of North America
ANTH 337	South American Indians
ANTH 370	Culture of Food Production and Economic Development
ANTH 380	Peoples and Cultures of Mexico and Central America

BLACK AMERICAN STUDIES (BAMS)

BAMS 110	Introduction to Black American Studies
BAMS 204	Urban Communities (cross-listed with SOCI 204)
BAMS 205	Contemporary Afro-American Issues
BAMS 215	Race in Society (cross-listed with SOCI 215)
BAMS 361	Race Inequality

COGNITIVE SCIENCE (CGSC)

CGSC 270	Introduction to Cognitive Science
CGSC 330	Philosophy of the Mind (cross-listed with PHIL 330)

COMMUNICATION (COMM)

COMM 200	Human Communication Systems
COMM 245	Mass Communication and Culture
COMM 251	Communicating Effectively
COMM 330	Communication and Interpersonal Behavior

CRIMINAL JUSTICE (CRJU)

CRJU 110	Introduction to Criminal Justice
CRJU 120	Illicit Drug Use in America
CRJU 201	Problems of Law Enforcement
CRJU 202	Problems of Criminal Judiciary
CRJU 203	Problems of Corrections
CRJU 345	Sociology of the Law (cross-listed with SOCI 345)

ECONOMICS (ECON)

ECON 100	Economic Issues and Policies
ECON 151	Introductory Microeconomics: Prices and Markets
ECON 152	Introductory Macroeconomics: National Economy
ECON 305	Comparative Economic Systems
ECON 306	Economic Theory of Politics (cross-listed with POSC 306)
ECON 311	Economics of Developing Countries
ECON 332	Economics of Government Spending and Taxation
ECON 340	International Economics
ECON 360	Government Regulation of Business
ECON 381	Economics of Human Resources

ENGLISH (ENGL)

ENGL 390	English Linguistics (cross-listed with LING 390)
ENGL 394	English Language: Rhetorical and Cultural Contexts

FOOD AND RESOURCE ECONOMICS (FREC)

FREC 100	Sustainable Development
FREC 150	Economics of Agriculture and Natural Resources

GEOGRAPHY (GEOG)

GEOG 102	Human Geography
GEOG 120	World Regional Geography
GEOG 210	Economic Geography
GEOG 230	Humans and the Earth Ecosystem
GEOG 235	Conservation of Natural Resources
GEOG 240	Environment and Behavior
GEOG 320	Water and Society

LINGUISTICS (LING)

LING 101	Introduction to Linguistics I
LING 102	Language, Mind and Society
LING 203	Languages of the World
LING 222	Language and Gender (cross-listed with WOMS 222)
LING 265	Studies in Language
LING 390	English Linguistics (cross-listed with ENGL 390)

MUSIC (MUSC)

MUSC 309	Patterns of Patronage
----------	-----------------------

PHILOSOPHY (PHIL)

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

POLITICAL SCIENCE (POSC)

POSC 150	The American Political System
POSC 220	Introduction to Public Policy
POSC 240	Introduction to International Relations
POSC 270	Comparative Politics
POSC 306	Economic Theory of Politics (cross-listed with ECON 306)
POSC 343	Society, Politics, and Health Care (cross-listed with SOCI 343)

PLANT SCIENCE (PLSC)

PLSC 100	Plants and Human Culture
----------	--------------------------

PSYCHOLOGY (PSYC)

PSYC 100	General Psychology
PSYC 301	Personality
PSYC 303	Introduction to Social Psychology
PSYC 325	Child Psychology
PSYC 333	Psychology of Women (cross-listed with WOMS 333)
PSYC 350	Developmental Psychology
PSYC 370	Research in Personality
PSYC 380	Psychopathology
PSYC 390	Social Psychology

SOCIOLOGY (SOCI)

SOCI 201	Introduction to Sociology
SOCI 204	Urban Communities (cross-listed with BAMS 204)
SOCI 206	Women and Work (cross-listed with WOMS 206)
SOCI 209	Social Problems
SOCI 211	Men, Conflict, and Social Change (cross-listed with WOMS 211)
SOCI 213	Men and Women in American Society (cross-listed with WOMS 213)
SOCI 215	Race in Society (cross-listed with BAMS 215)
SOCI 302	Social Deviance
SOCI 308	The Family
SOCI 311	Sociology of Health Care
SOCI 322	Crowds, Cults, and Revolutions
SOCI 331	World Population: Profiles and Trends
SOCI 343	Society, Politics, and Health Care (cross-listed with POSC 343)
SOCI 345	Sociology of Law (cross-listed with CRJU 345)
SOCI 360	Sociology of Religion
SOCI 361	Race Inequality
SOCI 407	Sociology of Sex and Gender (cross-listed with WOMS 407)

WOMEN'S STUDIES (WOMS)

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

GROUP D: THE STUDY OF NATURAL PHENOMENA THROUGH EXPERIMENT OR ANALYSIS

*Laboratory course

ANIMAL SCIENCE (ANSC)

ANSC 101	Introduction to Animal Science
ANSC 261	Principles of Companion Animal Nutrition

ANTHROPOLOGY (ANTH)

ANTH 102	Introduction to Biological Anthropology (duplicate credit with ANTH 104)
ANTH 104	Introduction to Archaeology and Biological Anthropology (duplicate credit with ANTH 102, and with ANTH 103 in Group C. ANTH 104 will not count toward graduation if ANTH 102 or ANTH 103 has been successfully completed.)
ANTH 202	Human Evolution and the Fossil Record

ART CONSERVATION (ARTC)

ARTC 210*	Science of Color Phenomena
-----------	----------------------------

ART HISTORY (ARTH)

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

BIOLOGY (BISC)

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

BISC 113* General Biology Laboratory
(counts as Group D lab if taken with BISC 103)

BISC 104* Principles in Biology with lab

BISC 105 Human Heredity and Development

BISC 115* Human Heredity and Development Laboratory
(counts as Group D lab if taken with BISC 105)

BISC 106 Elementary Human Physiology

BISC 116* Elementary Human Physiology Laboratory
(counts as Group D lab if taken with BISC 106)

BISC 107 Elementary Evolutionary Ecology

BISC 117* Elementary Evolutionary Ecology Laboratory
(counts as Group D lab if taken with BISC 107)

BISC 110 Viruses, Genes, and Cancer

BISC 127* Environment and Cultures in Conflict

BISC 152 Biology of Human Sexuality

BISC 171 Microbiology in Modern Society

BISC 195 Biological Evolution

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

BISC 208* Introductory Biology II

CHEMISTRY (CHEM)

CHEM 100 Chemistry and the Human Environment

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

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

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

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

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

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

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

COGNITIVE SCIENCE (CGSC)

CGSC 314 Brain and Behavior (cross-listed with PSYC 314)

COMPUTER AND INFORMATION SCIENCES (CISC)

CISC 101 Computers and Information Systems

CISC 103 Introduction to Computer Science with Web Applications

CISC 105 General Computer Science

CISC 106 General Computer Science for Engineers

CISC 108 Introduction to Computer Science I

ENTOMOLOGY (ENWC)

ENWC 201 Wildlife Conservation and Ecology

ENWC 205 Elements of Entomology

GEOGRAPHY (GEOG)

GEOG 101 Physical Geography: Climatic Processes

GEOG 111* Climatic Processes Laboratory (counts as Group D lab if taken with GEOG 101)

GEOG 106 Physical Geography: Land Surface

GEOG 152* Climate and Life

GEOG 220 Meteorology

GEOG 250 Computer Methods in Geography

GEOLOGY (GEOL)

GEOL 105 Geological Hazards

GEOL 115* Geological Hazards Laboratory (counts as Group D lab if taken with GEOL 105)

GEOL 107* General Geology

GEOL 108 Volcanoes and Earthquakes

GEOL 109 Planets, Asteroids and Impacts

GEOL 110 Earth History: Evolution and Geologic Record

GEOL 111 Geology of Delaware and its Neighbors

GEOL 112 Earth Resources and Public Policy

LINGUISTICS (LING)

LING 253 Laboratory Phonetics

MARINE STUDIES (MAST)

MAST 200 The Oceans

MATHEMATICAL SCIENCES (MATH)

MATH 201 Introduction to Statistical Methods (duplicate credit with STAT 205)

MATH 205 Statistical Methods I (duplicate credit with STAT 201)

MATH 210 Discrete Mathematics I (duplicate credit with MATH 230)

MATH 221 Calculus I (duplicate credit with MATH 241)

MATH 230 Finite Mathematics with Applications (duplicate credit with MATH 210)

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

MUSEUM STUDIES (MSST)

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

NUTRITION AND DIETETICS (NTDT)

NTDT 200 Nutrition Concepts

PHILOSOPHY (PHIL)

PHIL 205 Logic (PHIL 351 alternate.) (duplicate credit if taken after PHIL 351)

PHIL 207 Scientific Reasoning

PHIL 211 Basic Decision Theory

PHYSICS (PHYS)

PHYS 104* Elementary Physics
(duplicate credit with PHYS 201, PHYS 207, and SCEN 101)

PHYS 133* Introduction to Astronomy

PHYS 140 Great Concepts of Physics

PHYS 141 Light, Lasers, Cameras, Perception

PHYS 143 Energy, Technology, and Society

PHYS 144 Concepts of the Universe
(duplicate credit if taken after PHYS 133 or 134)

PHYS 145 Black Holes and Cosmic Evolution

PHYS 146 Quarks, Gluons, and the Big Bang

PHYS 147 Atoms for Everyone

PHYS 199 Exploring Physics Concepts: I

PHYS 201* Introductory Physics I
(duplicate credit with PHYS 104, 207, and SCEN 101)

PHYS 202* Introductory Physics II
(duplicate credit with PHYS 208 and SCEN 102)

PHYS 207* Fundamentals of Physics I
(duplicate credit with PHYS 104, 201, and SCEN 101)

PHYS 208* Fundamentals of Physics II
(duplicate credit with PHYS 202 and SCEN 102)

PLANT SCIENCE (PLSC)

PLSC 101* Botany I

PLSC 140 People and Plants: Feast or Famine

PLSC 204 Introduction to Soil Science

PSYCHOLOGY (PSYC)

PSYC 314 Brain and Behavior (cross-listed with CGSC 314)

PSYC 316 Biological Basis of Behavior

PSYC 320 Introduction to Neuroscience

SCIENCE (SCEN)

SCEN 101* Physical Science (duplicate credit with PHYS 104, 201, and 207)

SCEN 102* Physical Science (duplicate credit with PHYS 202 and 208)

SCEN 103 Concepts of Science and Technology

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 College of Arts and Sciences Undergraduate Academic Services Office, Room 219, Mitchell Hall, 831-3020, for the most current information.

AFRICAN STUDIES

Telephone: 302-831-1858
<http://www.udel.edu/AreaStudies/africa.html>
 Faculty Listing: http://www.udel.edu/AreaStudies/africa_faculty.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/BAMS 333	Peoples 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 455	African Francophone Literature and Cinema
FREN 457	The Francophone World
FREN 458	Aspects of Francophone Literature
FREN 459	Negritude, Antillanite, Creolite
HIST/BAMS 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.

ANTHROPOLOGY

Telephone: (302) 831-2802
<http://www.udel.edu/anthro>
 Faculty Listing: <http://www.udel.edu/anthro/people.html>

The Department of Anthropology offers undergraduate major programs in Anthropology and Anthropology Education, including Honors Degree options, in both. 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, biological or physical 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. Biological 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 biological 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**CREDITS**

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

ANTH 200	Introduction to the History of Anthropological Theory.	3
	Tutorial (ANTH 486, 487, 488 or 489)	3
	Social and cultural anthropology course credits (minimum)	12
	Archaeology course credits (minimum)	6
	Biological anthropology course credits (minimum)	6
	Capstone (see alternative options below):	
	A second tutorial, or	
	A senior thesis (UNIV 401), or	
	Independent study (ANTH 466), or	
	Anthropology Study Abroad (ANTH 466), or	
	Internship or Discovery Learning	3

(Except for the first-listed choice, a second tutorial and all of the Capstone options must be approved by the department chair and each will be closely supervised by a department member.)

Numerical Levels of Courses

No fewer than 12 of the 24 credits necessary to satisfy the discipline areas - archaeology, biological anthropology and social/cultural anthropology - must be at or above the 300 level. The minimal acceptable standard for a major course is C-.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: ANTHROPOLOGY EDUCATION

CURRICULUM**CREDITS**

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

ANTH 200	Introduction to the History of Anthropological Theory.	3
	Tutorial (ANTH 486, 487, 488 or 489)	3
	Social and cultural anthropology course credits (minimum)	12
	Archaeology course credits (minimum)	6
	Biological anthropology course credits (minimum)	6

Capstone (see alternative options below):

- A second tutorial, or
- A senior thesis (UNIV 401), or
- Independent study (ANTH 466), or
- Anthropology Study Abroad (ANTH 466), or
- Internship or Discovery Learning 3

(Except for the first-listed choice, a second tutorial and all of the Capstone options must be approved by the department chair and each will be closely supervised by a department member.)

Numerical Levels of Courses

No fewer than 12 of the 24 credits necessary to satisfy the discipline areas - archaeology, biological anthropology and social/cultural anthropology - must be at or above the 300 level. The minimal acceptable standard for a major course is C-.

In addition to the capstone course and second capstone experience, all students must take a minimum of 18 credits above the 100 level (i.e., 200 level or higher), of which 12 credits must be at the 300 level or above.

Economics course	3
Geography course	3
History course	3
Political Science course	3
Sociology course	3
PSYC 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 400 Student Teaching	9

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 page 215) 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 BA in Anthropology or Anthropology Education.
2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 52 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
- 9 Credits in social and cultural anthropology
- 12 Credits at the 300-level or above
- 3 Credits of any 48X Tutorial

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

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

MINOR IN ANTHROPOLOGY

Students wishing to minor in anthropology must complete 18 credits in anthropology courses distributed as follows: 6 credits in 100- and 200-level courses, of which only 3 credits may be at the 100-level and 12 credits in 300- and 400-level courses.

ART

Telephone: (302) 831-2244

<http://www.udel.edu/art>

<http://vc.art.udel.edu>

Faculty Listing: http://www.udel.edu/art/favc_faculty/index.htm

The Department of Art 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 BA degree requires 42 credit hours minimum of art courses and 51 credit hours maximum. The B.F.A. degree requires 75 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 digital 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. Fine Arts core, 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 Bachelor of Fine Arts in Visual Communications degree is an intense series of courses intended to inspire inquiry in the art of communication design and development of applicable skills in various creative processes. The degree path begins with graphic design fundamentals and leads each student toward a self-motivated career in the applied arts through a variety of required and elective courses in graphic design, advertising, illustration and new media. Visual Communications majors are required to receive a grade of C- or better in all required courses to continue in the degree path.

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 CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

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 116	Introduction to Digital Media	3
ART 117	Research Studio: Process and Product	3
Art Concentration		12
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
Courses from other department concentrations outside of chosen art discipline.		

Art History courses 12

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 CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)	3
First Year Experience (see page 68)	0-4
Discovery Learning Experience (see page 68)	3
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71)	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, pages 93-95.)

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 127 Mathematics and Quantitative Reasoning (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 pages 95-99)

Group A	9
Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas.	
Group B	9
The study of culture and institutions over time. Nine credits representing at least two areas.	
Group C	9
Empirically based study of human beings and their environment. Nine credits representing at least two areas.	
Group D	7
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: The BFA degree requires 75 credit hours minimum of art courses and 86 credit hours maximum. All grades in art courses must be C- or better.

Freshman Foundation Requirements

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 116 Introduction to Digital Media	3
ART 117 Research Studio: Process and Product	3
Total Freshman Foundation	18

Sophomore Year Requirements

Fine Arts Core	15
ART 231 Beginning Painting	
ART 243 Intro to Printmaking	
ART 250 Beginning Sculpture	
ART 290 Beginning Ceramics	
ART 280 Beginning Photography	
Fine Arts Elective	3
Total Sophomore Year	18

Junior and Senior Year Requirements

Fine Arts Electives	36
---------------------	----

(To be taken from all Department of Art offerings at the 200-, 300-, and 400-levels)	
ART 416 Professional Practices	3
ART 417 BFA Exhibition	0
Total Junior and Senior Years	39

TOTAL BFA/FINE ARTS MINIMUM DEGREE CREDITS 75

Art History Requirement

Four classes from Art History or
 Three classes from Art History and FAVC 315 Contemporary Issues
Total Art History Requirement 12
 (A student may double count 315 as an upper division studio elective course and as an Art History 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

DEGREE: BACHELOR OF FINE ARTS
MAJOR: VISUAL COMMUNICATIONS

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)	3
First Year Experience (see page 68)	0-4
Discovery Learning Experience (see page 68)	3
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71)	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, pages 93-95.)

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 127 Mathematics and Quantitative Reasoning (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 pages 95-99)

Group A	9
Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas.	
Group B	9
The study of culture and institutions over time. Nine credits representing at least two areas.	
Group C	9
Empirically based study of human beings and their environment. Nine credits representing at least two areas.	
Group D	7
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: The BFA degree requires 75 credit hours minimum of art courses and 86 credit hours maximum. All grades in art courses must be a C or better.

Freshman Foundation Requirements

ART 110	Drawing I	3
ART 111	2D Design	3
ART 112	Drawing II	3
ART 113	3D Design	3
ART 116	Introduction to Digital Media	3
ART 117	Research Studio: Process and Product	3
Total Freshman Foundation		18

First Year Requirements

NOTE: The BFA/VC degree program begins after the successful completion of all Freshman Foundation courses and acceptance of a student's application.

ART 200	Typography I	3
ART 201	Typography II	3
ART 207	Media/Design/Culture	3
ART 210	Form and Communication I	3
ART 211	Form and Communication II	3
Total First Year Credits		15

Second Year Requirements

ART 302	Typography III	3
ART 303	Graphic Design Studio	3
ART 312	Form and Communication III	3

VC Studio Electives (see below)

Total Second Year Credits		12
----------------------------------	--	-----------

Third Year Requirements

ART 403	Visual Communications Practicum	3
ART 405	Portfolio Preparation	3
VC Studio Electives (see below)		6
ART 417	BFA Exhibition	0
Total Third Year Credits		12

VC Studio Electives

A total of 9 credit hours are required from the following list of courses many of which may be repeated for up to 6 credits:

ART 304	Advertising Design Methods
ART 307	New Media Design
ART 310	Photographic Design Methods
ART 313	Illustration Methods
ART 346	Letterpress Printing
ART 404	Advertising Design Topics
ART 406	Artist's Machine
ART 407	Advanced New Media Design
ART 410	Photographic Design Topics
ART 413	Illustration Topics

Art Electives **15**

After the required major requirements, an additional 15 credits must be from Art Department courses.

Discovery Learning (Internship) **3**

As a requirement of the University, the Discovery Learning Requirement is typically satisfied by ART 408: Visual Communications Internship, however, students may elect to fulfill this requirement through other means.

Art History Requirement

Of the total credits required for the degree, 12 credits must be of Art History, or 9 credits of Art History and 3 of ART 325: Issues in Contemporary Art

Total BFA/VC Minimum Degree Credits **75**

CREDITS TO TOTAL A MINIMUM OF **124**

MINOR IN FINE ARTS

ART 129, ART 130 or ART 138 (minimum grade of B) 3 credits
(Students take this class before being admitted to the minor. Students may then apply for the minor and enter with the Chairperson's approval.)

Four classes at the 200-, 300-, or 400-level in painting, printmaking, sculpture, ceramics or photography areas. 12 credits
(Students may choose from one or more areas. Students must follow prerequisites for all courses. Enrollment is based on class availability. Classes will not be guaranteed in any one area to complete the minor.)

Art History or art criticism course 3 credits

TOTAL CREDITS **18**

MINOR IN INTERACTIVE MEDIA

For more information contact the imm-committee@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 416	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.

ART CONSERVATION

Telephone: (302) 831-3489
www.artcons.udel.edu
Faculty Listing: www.artcons.udel.edu/school/people

The Art Conservation Department offers an undergraduate major called Material Culture Preservation leading to a Bachelor of Arts degree. The Material Culture Preservation major involves interdisciplinary study in chemistry, studio arts, anthropology, art history and history with a focus on preventive conservation studies. This major gives students a strong background for applying to graduate programs in Art Conservation, Historic Preservation, Library and Archival Preservation and Museum Studies. An Honors Degree option is available.

Working closely with an advisor, students elect courses in the departments of anthropology, art, art conservation, art history, chemistry and biochemistry, history and others. During the junior or senior year, majors are required to participate in two on- or off-site internships. Also, specialized materials and techniques of art and preservation courses are required. Students in this program must earn a minimum of a C- in all required courses.

DEGREE: BACHELOR OF ARTS
MAJOR: MATERIAL CULTURE PRESERVATION

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS (65 or 69 CREDITS)

ARTC 101	Freshman Conservation Experience	1
ARTC 301	Care and Preservation of Cultural Property I	3
ARTC 302	Care and Preservation of Cultural Property II	3
ARTC 464	Conservation Internship (two semesters) (Junior and/or Senior status only)	6
ARTC 495	Senior Capstone	3

One of the following 3-4
ARTC 485 Color Mixing and Matching 3
ARTC 210 Science of Color Phenomena 3

One of the following 3
ARTC 488 Studio in the Materials and Techniques of Painting I
ARTC 489 Studio in the Materials and Techniques of Painting II

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

Three of the following 3
 ART 110 Foundation Drawing I
 ART 130 Drawing I: Tools and Techniques
 ART 138 Elementary Drawing and Painting I
 ART 280 Beginning Photography 3
 ART 250 Beginning Sculpture
 ART 290 Beginning Ceramics

Two courses from the following 6
 ANTH 103 Introduction to Prehistoric Archaeology
 ANTH 104 Introduction to Archaeology and Biological Anthropology
 ANTH 105 Introduction to Historical 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

One of the following (A or B) chemistry sequences 16-19
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 of upper division Anthropology, Art Conservation, Art History, History, Black American Studies, Museum Studies, and/or Fashion and Apparel Studies courses with a strong material culture basis with approval by an Art Conservation academic advisor prior to enrollment in the course. 12

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: MATERIAL CULTURE PRESERVATION

Students wishing to receive an Honors BA in Material Culture Preservation must complete:

1. All requirements for the Bachelor of Arts degree in Material Culture Preservation.
2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 52 of this catalog).

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

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

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

ART HISTORY

Telephone: (302) 831-8415
<http://www.udel.edu/ArtHistory>
 Faculty Listing: <http://www.udel.edu/ArtHistory/faculty.html>

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, Asian, and Latin American 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 CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS (33 credits minimum; 45 credits maximum)

Two (maximum) 100-level ARTH courses 6
 We recommend either ARTH153 or ARTH154 or both.

Four courses at the 200-level or above, one each in 4 of the 5 following areas 12
 1. Before the year 1400
 2. 1400-1700
 3. 1700-1900
 4. 1900-present
 5. African, Asian, Islamic, or Latin American art

ARTH301 Research and Methodology in Art History 3

Art history courses at the 300-level or above 3

Art History seminar at the 400-level 3

Other ARTH courses at 200-level or above 6

ENGL202 Biblical and Classical Literature 3

Any advisor-approved 200- or 300-level History course 3

Nine credits, with the advisor's approval, from appropriate courses in the following areas: 9
 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. A second History course, a Studio Art course, and a foreign language literature course are recommended.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

HONORS BACHELOR OF ARTS: ART HISTORY

The recipient must complete:

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

MINOR IN ART HISTORY

The minor in art history requires 18 credits of course work, including at least four courses at or above the 200-level. Students must distribute their courses among at least three different key areas of art history according to the areas for the major requirements: Before the year 1400; 1400-1700; 1700-1900; 1900-present; African, Asian, Islamic, or Latin American art.

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

BIOLOGICAL SCIENCES

Telephone: (302) 831-2282

<http://www.udel.edu/bio>

Faculty Listing: <http://www.udel.edu/bio/people/>

The Department of Biological Sciences offers two degrees with six majors. A BA degree may be earned in Biological Sciences, Biological Sciences Education and an Honors BA degree may be earned in Biological Sciences. A BS degree in Biological Sciences may be earned with a concentration in Biotechnology, Pharmaceutical Sciences, Ecology & Organismic Biology, or Cellular & Molecular Biology & Genetics and an Honors BS degree may be earned in Biotechnology. In addition the department offers two minors: Biological Sciences and Computational Biology.

The department participates in an interdepartmental BS degree in Environmental Sciences and, with the Department of Psychology, an interdepartmental BA 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 and Earth Studies.

BIOLOGICAL SCIENCES DEGREE PROGRAMS

During the freshman year, biological science majors for the BA, BS, 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 BA, BS, 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. **A grade of C or better is required for all required courses in the concentration in Pharmaceutical Sciences.** 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 BS concentrations in Ecology & Organismic Biology and in Cellular & Molecular Biology & Genetics maintain large portions of the traditional BA 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 BA 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.

CONCENTRATION IN PHARMACEUTICAL SCIENCES

The Bachelor of Science (BS) degree in Biological Sciences, with a concentration in Pharmaceutical Sciences, is a joint program with Thomas Jefferson University College of Health Professions (TJU) toward the award of an undergraduate BS degree and a graduate degree in Pharmacy (PharmD degree). There are UD and TJU components to this program. The UD component of the program consists of the first three years (90 credits) of the Bachelor of Arts degree in Biological Sciences. The 90 credits at UD will meet the University/College's First Year Experience, Discovery Learning Experience, multicultural, writing, and breadth requirements. During the fifth semester at UD, and upon final recommendation by the UD/Thomas Jefferson University (TJU) Joint Admissions Committee, students will be admitted to the TJU PharmD program and to the BS Biological Sciences degree with a concentration in Pharmaceutical Sciences. These students will then complete their sixth semester at UD and spend the remaining four years at TJU where they will complete their remaining undergraduate credits and graduate coursework leading to the PharmD degree. The undergraduate courses taken at TJU during the fourth and fifth years will replace courses students would normally take during their senior

year in the Biological Sciences BS degree program. Furthermore, the curriculum allows students who opt not to continue into the PharmD component of the degree to complete the Biological Sciences BA requirements within one year upon their return to UD.

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.

DEGREE: BACHELOR OF ARTS MAJOR: BIOLOGICAL SCIENCES

CURRICULUM CREDITS

See page 90 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.

BISC 207/208	Introductory Biology I and II	8
BISC 302	General Ecology	3
BISC 306	General Physiology	3

BISC 305	Cell Physiology	
OR		
BISC 401	Molecular Biology of the Cell	3
BISC 403	Genetic and Evolutionary Biology	3

One of the following lab courses. 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).

BISC 312	Quantitative Ecology	2
BISC 316	Experimental General Physiology	2
BISC 315	Experimental Cell Biology	2
BISC 411	Experimental Molecular Biology of the Cell	2
BISC 413	Experimental Genetic and Evolutionary Biology	2

A literature-based 600 level course chosen from a list on the department website 3-4

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

OR		
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 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.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS MAJOR: BIOLOGICAL SCIENCES EDUCATION

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

CURRICULUM CREDITS

See page 90 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.

BISC 207/208	Introductory Biology I and II	8
BISC 302	General Ecology	3
BISC 306	General Physiology	3

BISC 305	Cell Physiology	
OR		
BISC 401	Molecular Biology of the Cell	3
BISC 403	Genetic and Evolutionary Biology	3

Two 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).

<i>ONE of:</i>		
BISC 312	Quantitative Ecology	2
BISC 316	Experimental General Physiology	2
<i>And ONE of:</i>		
BISC 315	Experimental Cell Biology	2
BISC 411	Experimental Molecular Biology of the Cell	2

BISC 413	Experimental Genetic and Evolutionary Biology	2
----------	---	---

A literature-based 600 level course chosen from a list on the department website 3-4

Biology electives at the 300-level or above to total 33 credit hours in Biological Sciences.

RELATED WORK

CHEM 103/104	General Chemistry	8
--------------	-------------------	---

CHEM 213	Elementary Organic Chemistry	4
OR		
CHEM 321	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

OR		
MATH 241	Analytic Geometry and Calculus A	4

GEOL 107	General Geology	4
Geology Elective		3-4

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 400	Student Teaching	9
SCEN 491	Teaching Science in Secondary Schools	4

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

To be eligible to student teach, Biological Sciences Education students must have a GPA of 2.75 in their biology 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. Students must consult the teacher education program coordinator (see page 215) to obtain the student teaching application and other information concerning student teaching policies.

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

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 page 52 of this catalog).

**UNIVERSITY AND COLLEGE REQUIREMENTS FOR ALL
BIOLOGICAL SCIENCES BS CONCENTRATIONS** CREDITS
CURRICULUM

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)	3
First Year Experience (see page 68)	0-4
Discovery Learning Experience (see page 68)	3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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, pages 93-95.)

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

BREADTH REQUIREMENTS (See pages 95-99)

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: PHARMACEUTICAL SCIENCES**

A faculty member with the assistance of the University of Delaware/Thomas Jefferson University joint admissions committee advises students in the Program. Requirements for admission are: (1) a cumulative grade point average of at least a 3.3 and at least a 3.0 in all science courses, (2) completion of prerequisite courses with at least a C in each course, and (3) acceptable PCAT scores (scores in the 70th percentile or higher are highly desirable). Students meeting the above requirements must also submit a minimum of two letters of recommendation and a personal statement to the admissions committee. The admissions committee will interview select students as part of its determination of admission. Applications for admission are available in the Undergraduate Program Office, 115 Wolf Hall. See text above for all B.S. degree concentrations regarding University and College of Arts and Sciences requirements.

I. Prerequisite courses for admission to the Pharmaceutical Sciences concentration

Biological Sciences courses

BISC 207/208 Introductory Biology I and II	8
BISC 300 Microbiology	4
BISC 306 General Physiology	3
BISC 316 Physiology Laboratory	2
BISC 442 Vertebrate Morphology	4

Physical, Chemical and Mathematical Science requirements

CHEM 103/104 General Chemistry I & II	8
CHEM 321/322 Organic Chemistry I & II	8
PHYS 201/202 Introductory Physics I & II	8
MATH 241 Analytical Geometry and Calculus	4

Additional requirements outside the sciences

ENGL 110 Critical Reading and Writing	3
3 courses in languages, literature, philosophy, religion, arts	9*
3 courses in sociology, psychology, anthropology, political science	9*

*These courses fulfill the Thomas Jefferson University Social Sciences and Humanities required electives and must also fulfill the College of Arts and Sciences Group A, B, and C Breadth Requirements. One of these courses must fulfill the University of Delaware multicultural requirement and one must fulfill the College of Arts and Sciences second writing course requirement.

II. Required courses at Thomas Jefferson University

Biochemistry	3
Immunology	3
Molecular Biology	3
Biostatistics	3
Pathophysiology I & II	6
Pharmacology I & II	6
Biopharmaceutics & Principles of Clinical Pharmacokinetics	3

**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 CREDITS

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
OR	
BISC 305 Cell Physiology	
OR	
BISC 401 Molecular Biology of the Cell	3
OR	
BISC 306 General Physiology	3
BISC 403 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 6
BISC 451-452 Senior Thesis (3+3 credit hours)

OR
UNIV 401-402 Senior Thesis (3+3 credit hours)

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 300	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

	Credit Hours	
PHYS 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**CREDITS**

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 403	Genetic and Evolutionary Biology	3
CHEM 527	Introductory Biochemistry (or equivalent)	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	3
OR		
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)	6
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

C. CELL BIOLOGY

BISC 471	Immunology	3
BISC 408	Histology (or BISC 617 Electron Microscopy)	4/3
BISC 612	Advanced Cell Biology	3

D. PHYSIOLOGY

BISC 605/606	Advanced Mammalian Physiology	8
BISC 626/627	Neuroscience I and II	7
BISC 660	Environmental Physiology	3
BISC 675	Cardiopulmonary Physiology	3

E. BIOINFORMATICS

ANSC 644	Bioinformatics	3
A computer science course beyond the introductory level		

F. 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

	Credit Hours	
PHYS 201-202	General Physics	8
CHEM 322	Organic Chemistry	4
A course in Statistics (STAT)		3

DEGREE: BACHELOR OF SCIENCE
MAJOR: BIOLOGICAL SCIENCES
CONCENTRATION: BIOTECHNOLOGY(BBT)

See above text for University and College Requirements.

CURRICULUM**CREDITS****I. Required lower level Biology courses**

BISC 207	Introductory Biology I	4
BISC 208	Introductory Biology II	4
BISC 280	Fundamentals of Biotechnology	1
BISC 300	Introduction to Microbiology	4
BISC 305	Cell Physiology	3
BISC 401	Molecular Biology of the Cell	3
BISC 403	Genetic and Evolutionary Biology	3

II. Required lower-level Biology Laboratory courses

Note that for all the two credit labs, the lecture is a prerequisite. (THE LECTURE AND THE LAB CANNOT BE TAKEN SIMULTANEOUSLY.)

BISC 411	Experimental Molecular Biology of the Cell	2
BISC 315	Experimental Cell Biology	2

III. Biology Breadth Requirement

Choose at least one from the following courses:

BISC 306	General Physiology	3
BISC 408	Mammalian Histology	4
BISC 471	Immunobiology	3
BISC 492	Human and Mammalian Cytogenetics	3

IV. Laboratory Classes

Choose three of the following courses:

BISC 468	Independent Research*	4
----------	-----------------------	---

BISC 484	Computer-Based Genetics Laboratory	3
BISC 601	Immunochemistry Laboratory	4
BISC 604	Nucleic Acids Laboratory	4
BISC 619	Gene Expression Laboratory	4

* The four credits of BISC 468 must be taken with the same professor and must be over at least two semesters. An approved summer experience, such as University-sponsored summer research, can be substituted for one semester. UNIV 401 plus UNIV 402 or BISC 451 plus BISC 452 (6 credits total) can also substitute for BISC 468.

V. Required Courses from Other Departments

Chemistry

CHEM 103/104	General Chemistry	8
CHEM 321/325; CHEM 322/326	Organic Chemistry	8

One of the following options:

CHEM 527	Introductory Biochemistry	3
----------	-------------------------------------	---

or

CHEM 641	Biochemistry and CHEM 643 Intermediary Metabolism	6
----------	--	---

Physics

PHYS 201/202	Fundamentals of Physics	8
--------------	-----------------------------------	---

Math

MATH 241	Analytic Geometry and Calculus A	3
----------	--	---

VI. Upper Division Requirements

Choose two courses from the following list. (At least one must be a BISC course.)

ANSC 670	Principles of Molecular Genetics
BISC 600	Biotechnology and Molecular Medicine
BISC 602	Molecular Biology of Animal Cells
BISC 605	Advanced Mammalian Physiology
BISC 612	Advanced Cell Biology
BISC 615	Vertebrate Developmental Biology
BISC 654	Biochemical Genetics
BISC 656	Evolutionary Genetics
BISC 665	Eukaryotic Molecular Biology and Genetics
BISC 671	Advances in Immunology
BISC 679	Virology
BISC 693	Human Genetics
CHEM 645	Proteins: Structure and Function
CHEM 646	DNA-Protein Interactions
CHEM 648	Membrane Biochemistry

- Any additional laboratory class (IV) taken above the minimum of three may also count towards the upper division requirements (VI).
- Other upper division classes may also be approved at the discretion of the Undergraduate Program Director.
- 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 page 52 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, (including BISC 207 and 208).

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 UNIV 402, 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:

BISC 401	Molecular Biology of the Cell	3	(Prerequisites: BISC 207, CHEM 103, CHEM 104, one semester of organic chemistry)
ANSC 644	Bioinformatics	3	
CISC 220	Data Structures	3	(Prerequisites: CISC 181 or CISC 120 and CISC 105) (Corequisites: MATH 210 or MATH 242)
CISC 437	Database Systems	3	(Prerequisite: CISC 220)
MAST 634	Marine Biochemistry	3	(Prerequisite: Permission of the Instructor)
Senior Thesis	. . . . .	6	

BLACK AMERICAN STUDIES

Telephone: (302) 831-2897.
Program Office: 417 Ewing Hall
<http://www.bams.udel.edu>
Faculty Listing: <http://www.udel.edu/bams/faculty/>

Black American Studies focuses on the study of Black Americans and their ancestry. An undergraduate major and minor in Black American Studies are available for those students wishing to pursue related careers in this area.

The program is designed to present a comprehensive study of the origins, conditions, and experiences of Black Americans using the perspectives and techniques of various disciplines in the humanities and social sciences. It explores the social, political, and economic roots of contemporary problems, seeking to relate them to the major value systems in this country and the world. Integrated with other disciplines in all appropriate phases of education, Black American Studies has meaning for present life and is useful for future learning. The program serves as a catalyst for multi-ethnic and cultural understanding.

Black American Studies is an interdisciplinary program with its basic content in the social sciences and humanities. The program involves regular course offerings that deal with historic, cultural, and social phenomena of people of African descent. Students from diverse disciplines utilize Black American Studies courses to fulfill general requirements as well as to supplement their majors. The interdisciplinary and multidisciplinary nature of the program allows flexibility for students seeking the relationships between their respective majors and Black American Studies.

**DEGREE: BACHELOR OF ARTS
MAJOR: BLACK AMERICAN STUDIES**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

A minimum of C- is required for any BAMS course to earn credit toward a minor or major in Black American Studies.		
BAMS 110	Introduction to Black American Studies	3
BAMS 391	Research Methods in Black American Studies	4

One of the following courses in Comparative and Diasporic Studies		3
ANTH/BAMS 333	Peoples of Africa	
HIST/BAMS 395	Pan Africanism	
ARTH/BAMS 203	Art, Power and Architecture in Africa	

One of the following courses in Arts and Humanities		3
BAMS 3xx	African American Art I	

BAMS 206 Survey of African American Culture
ENGL 344/BAMS 313 African American Literature I

One of the following courses in Social and Behavioral Sciences 3
POSC/BAMS 322 Race and Politics
SOCI/BAMS 204 Urban Communities
SOCI/BAMS 215 Race in Society
BAMS 205 Contemporary African American Issues

One of the following courses in History 3
HIST/BAMS 134 History of Africa
HIST/BAMS 220 American Civil Rights Movement
BAMS 304/HIST 325 History of Black America to the Civil War
BAMS 306/HIST 326 History of Black America since the Civil War

ELECTIVES

Any three (3) of the following 9
courses at least one of which is at the 400 level or higher may meet this requirement. Courses above 300 from any of the four areas listed above may also meet this requirement.

CRJU/BAMS 355 Inequality, Crime and Justice
HIST/BAMS 331 History of the Caribbean I
HIST/BAMS 332 History of the Caribbean II
HIST/BAMS 334 African American Women's History
ENGL/BAMS 345 African American Literature II
PHIL/BAMS 327 Race, Gender and Science
BAMS/PHIL 307 Black Thought and Philosophy
BAMS 367 Black Men in the Streets and the Criminal Justice System
ENGL/BAMS 382 Studies in Multicultural Literature in English
POSC/BAMS 439 Problems in African Politics
SOCI/BAMS 418 Race, Gender and Poverty
SOCI/BAMS 4xx The Black Middle Class
PSYC 416/BAMS 432 Psychological Perspectives on Black Americans
CRJU/BAMS 413 Hate Crimes
CRJU/BAMS 444 Capital Punishment and American Culture
SOCI/BAMS 415 Race, Class and Gender
BAMS 440 Themes in Black American Studies (open to juniors/seniors only)
BAMS 650 Black Community Studies
BAMS 660 Visual Vibe: Oral History and Visual Rhetoric in African American Women's Art
UAPP/BAMS 649 Civil Rights Law and Policy

BAMS 466 Senior Project 3

CREDITS TO TOTAL A MINIMUM OF 31

MINOR IN BLACK AMERICAN STUDIES

Students applying for the minor in Black American Studies must have completed at least two semesters of full-time study at the University. The minor requires 18 credits, including BAMS 110, 205, 206, 304, 306 and one BAMS elective at or above the 300-level.

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

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

CHEMISTRY AND BIOCHEMISTRY

Telephone: (302) 831-2465
<http://www.udel.edu/chem/index.html>
Faculty Listing: www.udel.edu/chem/faculty.htm

The Department of Chemistry and Biochemistry provides five undergraduate degree options: BA in Chemistry, BA in Chemistry Education, BS in Chemistry, BS in Chemistry with concentration in Environmental Chemistry, and a BS in Biochemistry. Honors Degree options are available in the BA in Chemistry Education, the BS in Chemistry, and the BS in Biochemistry. Minors in Biochemistry or Chemistry are also available.

DEGREE: BACHELOR OF ARTS MAJOR: CHEMISTRY

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

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

CHEM 165 Freshman Majors Seminar 0
CHEM 103/104 General Chemistry 8
CHEM 220/221 Quantitative Analysis and Laboratory 4
or
CHEM 111/112 General Chemistry 6
CHEM 119/120 Quantitative Chemistry I and II 6
CHEM 321/322 Organic Chemistry 8
or
CHEM 331/332/333 Organic Chemistry and Laboratory I and II 10
CHEM 437/438 Instrumental Methods and Laboratory 4
CHEM 418/419/445 Introductory Physical Chemistry and Laboratory 7
or
CHEM 443/444/445 Physical Chemistry and Laboratory 7

One of the following eight courses: 3

CHEM 410 History of Chemistry
CHEM 457 Inorganic Chemistry
CHEM 527 Introductory Biochemistry
CHEM 620 Analytical Spectroscopy
CHEM 622 Electroanalytical Chemistry
CHEM 623 Chemometrics
CHEM 633 Advanced Organic Chemistry: Physical
CHEM 634 Advanced Organic Chemistry: Synthesis and Reactivity

MATH 241 Analytic Geometry and Calculus A 4

MATH 242 Analytic Geometry and Calculus B
(strongly recommended) 4

PHYS 201/202 Introductory Physics I and II 8

or
PHYS 207/208 Fundamentals of Physics I and II 8

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 CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

CHEM courses to total 30 credits minimum.
CHEM 165 Freshman Majors Seminar 0
CHEM 111/112 General Chemistry 6
CHEM 119/120 Quantitative Chemistry I and II 6
or
CHEM 103/104 General Chemistry 8
CHEM 220/221 Quantitative Analysis and Laboratory 4
One of the following: 4-8
CHEM 213 Elementary Organic Chemistry
CHEM 321/322 Organic Chemistry
CHEM 331/332/333 Organic Chemistry and Laboratory
CHEM 437/438 Instrumental Methods and Laboratory 4
CHEM 418/445 Introductory Physical Chemistry and Laboratory 4
or
CHEM 443/445 Physical Chemistry and Laboratory 4
CHEM 214/216 Elementary Biochemistry and Laboratory 4
Chemistry courses selected with consent of advisor 0-3
BISC 207 Introductory Biology I 4
GEOL 107 General Geology 4
MATH 241/242 Analytic Geometry and Calculus A and B 8
PHYS 201/202 Introductory Physics I and II 8
or
PHYS 207/208 Fundamentals of Physics I and II 8
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 400	Student Teaching	9
SCEN 491	Teaching Science in Secondary Schools	4

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

To be eligible to student teach, Chemistry Education students must have a GPA of 2.75 in their chemistry 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. Students must consult with the teacher education program coordinator (see page 215) to obtain the student application and other information concerning student teacher policies.

CREDITS TO TOTAL A MINIMUM OF 124

**HONORS BACHELOR OF ARTS:
CHEMISTRY EDUCATION**

The recipient must complete:

1. All requirements for the Bachelor of Arts degree in Chemistry Education.
2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 52 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	CREDITS
------------	---------

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
First Year Experience	(see page 68)	0-4
Discovery Learning Experience	(see page 68)	3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71)

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, pages 93-95.) 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 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 pages 95-99)

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 165	Freshman Majors Seminar 0
CHEM 111/112	General Chemistry 6
CHEM 119/120	Quantitative Chemistry I and II 6
CHEM 331/332	Organic Chemistry 6
CHEM 333/334	Organic Chemistry Majors Laboratory I and II 4

CHEM 443/445	Physical Chemistry and Laboratory 4
CHEM 437/438	Instrumental Methods and Laboratory 4
CHEM 527	Introductory Biochemistry 3
or	
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
MATH 241/242/243	Analytic Geometry and Calculus A, B and C 12
PHYS 201/202	Introductory Physics I and II 8
or	
PHYS 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 requirement for 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 BS 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 and
GEOL 107	General Geology

Two of the following three-credit courses: 6

BISC 302	General Ecology
CHEM 608	Environmental Soil Chemistry
CHEM 681	Green Chemistry
CHEM 810	Kinetics and Surface Chemistry of Soils
CHEM 855	Marine Inorganic Chemistry
CIEG 433	Hazardous Waste Management
CIEG 437/637	Water and Waste Water Quality
CIEG 632	Chemical Aspects of Environmental Engineering
CIEG 634	Contaminant Transport and Separation in Environmental Systems
CIEG 636	Biological Aspects of Environmental Engineering
GEOG 412	Physical Climatology
GEOG 420	Atmospheric Physics
GEOG 423	Atmospheric Dynamics
GEOL 421	Environmental and Applied Geology
MAST 482	Introduction to Ocean Sciences
MAST 646	Chemical Oceanography
MAST 681	Remote Sensing of Environment
PLSC 608	Environmental Soil Chemistry

CREDITS TO TOTAL A MINIMUM OF 124

Candidates for a BS in chemistry must achieve a cumulative GPA of at least 2.00 for all chemistry courses taken. Repeated Chemistry courses will be counted only once in the calculation of the chemistry GPA. The calculation of the chemistry course GPA (2.00 minimum required for graduation) for candidates for the BS 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.

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 BS chemistry or biochemistry majors.

DEGREE: BACHELOR OF SCIENCE
MAJOR: BIOCHEMISTRY

CURRICULUM CREDITS
UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
First Year Experience	(see page 68)	0-4
Discovery Learning Experience	(see page 68)	3
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content	(see pages 69-71)	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, pages 93-95.) 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 pages 95-99)

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 46 credits total in CHEM		
CHEM 165	Freshman Majors Seminar	0
CHEM 111/112	General Chemistry	6
CHEM 119/120	Quantitative Chemistry I and II	6
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
or		
CHEM 443	Physical Chemistry	4
CHEM 437/438	Instrumental Methods and Laboratory	4
CHEM 641	Biochemistry	3
CHEM 419	Introductory Physical Chemistry II	3
or		
CHEM 444	Physical Chemistry	4
CHEM 445	Physical Chemistry Laboratory	1
CHEM 642	Biochemistry	3
CHEM 643	Intermediary Metabolism	3
Two Advanced Chemistry courses at 600-level		6-8
or		
Two Biology 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 465	Seminar (two semesters, fall and spring)	2
CHEM 468	Undergraduate Research	6
or		
Two Biology laboratory courses selected from the following:		4-8
BISC 300	Introduction to Microbiology	4
BISC 315	Experimental Cell Biology	2
BISC 316	Experimental Physiology	2

BISC 411	Experimental Molecular Biology	2
BISC 413	Advanced Genetics Laboratory	2
BISC 601	Immunology	4

RELATED WORK

MATH 241	Analytic Geometry and Calculus A	4
MATH 242	Analytic Geometry and Calculus B (strongly recommended)	4
BISC 207/208	Introductory Biology I and II	8
PHYS 201/202	Introductory Physics I and II	8

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

Candidates for a BS 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 BS 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 has been taken. CHEM 342 and CHEM 100 will be regarded as exceptions to the foregoing prohibitions, since their subject matter coverage is considerably different than that found in higher level courses.

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

HONORS BACHELOR OF SCIENCE: CHEMISTRY OR BIOCHEMISTRY

The recipient must complete:

- All requirements for the Bachelor of Science degree in Chemistry or Biochemistry.
- All of the University's generic requirements for the Honors Baccalaureate degree (see page 52 of this catalog).

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

- 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:

	CREDITS
CHEM 103/104 General Chemistry	8
or	
CHEM 111/112/119 General and Quantitative Chemistry	9
CHEM 321/322 Organic Chemistry	
or	
CHEM 331/332/333 Organic Chemistry	8
CHEM 641 Biochemistry	3
CHEM 642 Biochemistry	
or	
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.

MINOR IN CHEMISTRY

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

	CREDITS
CHEM 103/104 (or CHEM 111/112/119)	8 (or 9)
Any three of the following:	
CHEM 220/221 (or CHEM 437/438)	4
CHEM 321 (or CHEM 331/333)	4-5
CHEM 457/458	4

CHEM 418/445 (or 443/445) 4
 CHEM 527 or 641 3
 Students must have a minimum grade of C- in each course counted toward the minor.

COMMUNICATION

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

CURRICULUM CREDITS

See page 90 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.

COMM 245	Mass Communication and Culture	3
COMM 256	Principles of Communication Theory	3
COMM 301	Introduction to Communication Research Methods	3
COMM 330	Communication and Interpersonal Behavior	3
COMM 341	Theories of Interpersonal Communication	3
COMM 350	Public Speaking	3
Three courses	(nine credits) chosen from the following list of courses:	9
COMM 417	Communication and Management of Conflict	
COMM 421	Intercultural Communication	
COMM 440	Topics in Interpersonal Communication	
COMM 442	Topics in Organizational Communication	
COMM 452	Communication and Persuasion	
COMM 456	Communication in Organizations	
COMM 485	Analysis of Face-to-Face Communication	

Six to 15 COMM elective credits. 6-15
 for a total of not less than 33 nor more than 45 COMM credits. These may be taken from the other concentration, from above listing, or from the following:

Interpersonal Communication Electives

COMM 200	Human Communication Systems
COMM 204	Gender and Communication
COMM 343	Topics: Interpersonal Communication

Politics & Media Communication Electives

COMM 319	Topics: Politics and Broadcast Journalism
COMM 340	Politics and the Media
COMM 427	Broadcast News
COMM 444	Global Agenda

Mass Communication Electives

COMM 313	Comm Principles in Advertising
COMM 318	Topics in Mass Communication
COMM 329	Broadcast Newswriting
COMM 486	Multi-Media Literacy

Organizational Communication Electives

COMM 342	Topics in Organizational Communication
COMM 356	Small Group Communication

Public Relations Electives

NOTE: COMM309 should be taken before any other Public Relations courses with the exception of COMM401.

COMM 309	Introduction to Public Relations
COMM 311	Public Relations Writing
COMM 401	Careers in Communication
COMM 409	Public Relations Campaign Planning
COMM 413	Public Relations Management

Television Production

COMM 325	Studio Television Production
COMM 326	Field Television Production
COMM 327	TV Production Lab I
COMM 328	TV Production Lab II
COMM 388	Video Production Practicum

General Electives

COMM 251	Communicating Effectively
COMM 351	Oral Communication Fellows
COMM 364	Internship
COMM 366/466	Independent Study/Special Problems
COMM 367/467	Experimental Courses not listed in Catalog
COMM 468	Undergrad Research in Communication
COMM 490, 491	Honors 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: COMMUNICATION
CONCENTRATION: MASS COMMUNICATION

CURRICULUM CREDITS

See page 90 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.

COMM 245	Mass Communication and Culture	3
COMM 256	Principles of Communication Theory	3
COMM 301	Introduction to Communication Research Methods	3
COMM 330	Communication and Interpersonal Behavior	3
COMM 345	Legal Issues of the Mass Media	3
COMM 350	Public Speaking	3
COMM 370	Theories of Mass Communication	3

Two courses (six credits) chosen from the following list of courses: 6

COMM 418	Topics in Mass Communication
COMM 424	Media Message Analysis
COMM 425	Advanced Topics in Politics and Broadcast Journalism
COMM 450	Mass Communication Effects
COMM 452	Communication and Persuasion
COMM 454	Children and the Mass Media

Six to 15 COMM elective credits. 6-15
 for a total of not less than 33 nor more than 45 COMM credits. These may be taken from the other concentration, from listing above, or from the following:

Interpersonal Communication Electives

- COMM 200 Human Communication Systems
 COMM 204 Gender and Communication
 COMM 343 Topics: Interpersonal Communication

Mass Communication Electives

- COMM 313 Comm Principles in Advertising
 COMM 318 Topics in Mass Communication
 COMM 329 Broadcast Newswriting
 COMM 486 Multi-Media Literacy

Politics & Media Communication Electives

- COMM 319 Topics: Politics and Broadcast Journalism
 COMM 340 Politics and the Media
 COMM 427 Broadcast News
 COMM 444 Global Agenda

Organizational Communication Electives

- COMM 342 Topics in Organizational Communication
 COMM 356 Small Group Communication
 COMM 456 Communication in Organizations

Public Relations Electives

NOTE: COMM309 should be taken before any other Public Relations course with the exception of COMM401.

- COMM 309 Introduction to Public Relations
 COMM 311 Public Relations Writing
 COMM 401 Careers in Communication
 COMM 409 Public Relations Campaign Planning
 COMM 413 Public Relations Program Management

Television Production

- COMM 325 Studio Television Production
 COMM 326 Field Television Production
 COMM 327 TV Production Lab I
 COMM 328 TV Production Lab II
 COMM 388 Video Production Practicum

General Electives

- COMM 251 Communicating Effectively
 COMM 351 Oral Communication Fellows
 COMM364 Internship
 COMM 366/466 Independent Study/Special Problems
 COMM 367/467 Experimental Courses not listed in Catalog
 COMM 468 Undergrad Research in Communication
 COMM 490/491 Honors 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:
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 page 52 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 Deborah Steinberger
 Foreign Languages and Literatures
 Telephone: (302) 831-2044
 E-mail: steind@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****CREDITS**

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

CMLT 202	Biblical and Classical Literature	3
(ENGL 205 or 206 or CMLT 316 may be substituted with advisor's approval)		
CMLT 207	Great Writers of the Western World:1100-1700.	3
CMLT 208	Great Writers of the Western World: 1650-1950	3
Comparative Literature courses or courses in related fields approved by the advisor.		9

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

MINOR IN COMPARATIVE LITERATURE

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

1. Core courses in comparative literature (6 credits) Two of CMLT 202, 207, or 208
2. Foreign literature courses (6 credits). Advanced elective-level courses studied in the original text.
3. Advanced English or Advanced CMLT course (3 credits)
4. Approved related area course (3 credits)

COMPUTER AND INFORMATION SCIENCES

Telephone: (302) 831-2712
 E-mail: ugradprgm@cis.udel.edu
 http://www.cis.udel.edu
 Faculty Listing: http://www.cis.udel.edu/people

The Department of Computer and Information Sciences 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 Science 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 BA or an Honors BS. Honors students are strongly encouraged to become involved in faculty research projects. The BA 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 computers to the subject 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**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

CISC 108	Introduction to Computer Science I	3
CISC 181	Introduction to Computer Science II.	3
CISC 220	Data Structures	3
CISC 260	Machine Organization and Assembly Language.	3
CISC 275	Introduction to Software Engineering.	3

Eighteen credits of Computer Science numbered 301 or above, approved by the student's advisor 3
 MATH 210 Discrete Mathematics I 3
 MATH 241 Analytic Geometry and Calculus A 4

Minimum grade C- in the CISC courses. Minimum grad C- in MATH 210 for students who wish to take CISC 303 or CISC 304.

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**

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

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

First Year Experience (see page 68). 0-4

Discovery Learning Experience (see page 68) 3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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, pages 93-95.)

BREADTH REQUIREMENTS (See pages 95-99)

Six credits from each of the following groups. 18
 Group A: Understanding and appreciation of the creative arts and humanities.

Group B: The study of culture and institutions over time.

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

MAJOR REQUIREMENTS

CISC 108	Introduction to Computer Science I	3
CISC 181	Introduction to Computer Science II (minimum grade C-)	3
CISC 220	Data Structures (minimum grade C-)	3
CISC 260	Machine Organization and Assembly Language (minimum grade C-)	3
CISC 275	Introduction to Software Engineering.	3
CISC 303	Automata Theory	3
CISC 303	Automata Theory.	3
CISC 320	Introduction to Algorithms.	3
CISC 360	Computer Architecture	3
CISC 361	Operating Systems	3
CISC 475	Advanced Software Engineering.	3

An additional nine credits of Computer Science numbered 301 or above, approved by the student's advisor 9

Twelve credits in advanced courses in an advisor-approved CISC concentration 12
 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.

MATH 205	Statistical Methods.	4
or		
MATH 350	Probability Theory	
MATH 210	Discrete Mathematics I (minimum grade C-)	3
MATH 241/242	Analytic Geometry and Calculus A/B	8

Twelve credits in science courses including one of the following sequences of laboratory science courses: 12
 PHYS 207-208 Fundamentals of Physics
 or
 CHEM 103-104 General Chemistry
 or
 BISC 207-208 Introductory Biology
 or
 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. 3-4

ENGL 312 Written Communications in Business 3
 or
 ENGL 410 Technical Writing

CISC 355 Computers, Ethics and Society 3
 CPEG 202 Introduction to Digital Systems. 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: INFORMATION SYSTEMS**

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

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

First Year Experience (see page 68). 0-4

Discovery Learning Experience (see page 68) 3

Three credits in a course or courses stressing multi-cultural, ethnic, and/or gender related course content (see pages 69-71) 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 212 Oral Communication in Business 3
 CISC 355 Computers, Ethics, and Society 3

MAJOR REQUIREMENTS

CISC 108 Introduction to Computer Science I 3
 CISC 181 Introduction to Computer Science II (minimum grade C-) 3
 CISC 220 Data Structures (minimum grade C-) 3
 CISC 250 Business Telecommunication Networks 3
 CISC 275 Introduction to Software Engineering 3
 CISC 437 Database Systems 3
 CISC 475 Advanced Software Engineering 3
 MISY 430 Systems Analysis and Implementations 3

BUSINESS CORE REQUIREMENTS

ACCT 207 Accounting I 3
 ACCT 208 Accounting II 3
 BUAD 306 Operations Management 3
 BUAD 309 Management and Organizational Behavior 3
 BUAD 301 Introduction to Marketing 3
 or
 FINC 311 Principles of Finance

IS CORE REQUIREMENTS

MISY 431 Technological Problem Solving 3
 MISY 432 Problem Solving Project Management 3
 Electives (3 courses) 9

These 3 additional courses are selected from CISC 260, CISC courses numbered 300 or above, BUAD 301, FINC 311, MISY courses numbered 300 or above (except MISY 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 Science, the Bachelor of Science in Computer Science, or the Bachelor of Science in Information Systems.
2. All of the University's generic requirements for the Honors Degree (see page 52 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, CISC 220, CISC 437, and CHEM527. 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., CISC 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 18 or more credits including either CISC 106 or CISC 108, CISC 181, CISC 220, and CISC 275. 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.

EAST ASIAN STUDIES

Professor David Pong, 224 Munroe Hall
 Email: dpong@udel.edu
 Telephone: (302) 831-2371
<http://www.udel.edu/AreaStudies/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 BA 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 or region (e.g., China, Japan, or Southeast Asia) 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 90 for University and College requirements.

MAJOR REQUIREMENTS (30 OR 33)

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

One of the following options (A or B):

- A. Concentration in China or Japan**
 Three credit hours at the 200-level or above in Chinese or in Japanese (including CHIN/JAPN 200, 205, and 206 3
 or
B. Joint Chinese/Japanese Concentration (6 credits total)
 Three credit hours of Chinese and Japanese language courses at the 200 level or above 6
 For both concentrations:
 ANTH 210 Peoples and Cultures of East Asia
 or
 ANTH 212 Peoples and Cultures of SE Asia 3
 HIST 137 East Asian Civilizations: China 3
 HIST 138 East Asian Civilizations: Japan 3
 PHIL 310 Chinese Religion and Philosophy 3

POSC 312	Politics of East Asian Development	
or		
POSC 427	Politics in China	3

Choose one of the following three courses: 3

ARTH 237	Art of Tibet
ARTH 267	Chinese Art, Architecture & Archaeology
MUSC 206	Music of China

Nine credits of major electives in the Humanities and 9
 Social Sciences, from at least 2 departments, selected through prior consultation with the student's Advisor. (All cross-listed courses are tied to the instructor's home department, e.g., HIST/WOMS 3xx, if taught by a History instructor, is a History course.)

These courses include, among others:

ANTH 210	Peoples and Cultures of East Asia
ANTH 211	Peoples and Cultures of Southeast Asia
ANTH 310	Asian Women's Lives
ANTH 312	Asian Women in the Globalized Workplace
ANTH 313	New Rich in Asia
ARSC 130	East Asia in Film (1-3 cr.)
ARSC 296	Honors Colloquium (only when East Asia related)
ARTH 237	Art of Tibet (if not selected as a required course)
ARTH 267	Chinese Art, Architecture & Archaeology (if not selected as a required course)

ARTH 367	Art, architecture & Archaeology in East Asia
CRJU 467	Crime and Criminal Justice in East Asia
ENGL 382	Literature and History of Asian America
FLLT 321	Topics: Chinese Literature in Translation
FLLT 328	Images of Women in Japanese Literature
FLLT 330	Chinese Women Writers
FLLT 331	Introduction to Chinese Films
FLLT 338	Light and Shadow: Japanese Films
FLLT 380	Topics: Japanese Culture in Translation
FLLT 381	Topics: Chinese Culture in Translation
HESC 120	Taiji (Tai Chi) or Chinese Wushu (1 cr.)
HIST 268	Seminar (only when East Asia related)
HIST 270	History of Modern Asia
HIST 365	Topics in East Asian History
HIST 367	Literature and History of Asian America
HIST 368	Modern China: 1600-1920s
HIST 369	China Since 1900
HIST 370	History of Modern Japan
HIST 371	Post-war Japan
HIST 372	Popular Culture in Urban Japan
HIST 390	History of Modern Southeast Asia
HIST 391	World War II in Asia and the Pacific
HIST 392	Buddhism and Politics in Modern Asia.
HIST 393	History of Modern Vietnam
HIST 479	Seminar: Topics in Asian History
MUSC 206	Music of China (if not selected as a required course)
PHIL 367	Buddhist Philosophy
PHIL 367	Daoism
POSC 312	Politics of East Asian Development (if not selected as a required course)
POSC 427	Politics in China
POSC 429	Southeast Asia and the World (if not selected as a required course)
POSC 443	China and the World

For approval of independent studies and special problems, and for course substitutions in all the East Asian Studies degree programs, contact the program director before registering for them.

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 BA in East Asian Studies include:

1. All requirements for the BA in East Asian Studies.
2. All the University's generic requirements for the Honors Degree (see page 52 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 major must be at least 3.400.

4. 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 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, or visit www.udel.edu/AreaStudies/asia.html

EAST ASIAN STUDIES MINOR WITHOUT LANGUAGE

Number of credits required: 18

Required courses:

A. Introductory Courses:

6 credits in two disciplines from the following courses in the humanities. (NOTE: CHIN, FLIT, and JAPN courses are from a single department/discipline).

ARSC 136	East Asian Film*
ARTH 155	Asian Art
ARTH 237	Art of Tibet (if not selected as a required course)
CHIN 208	Contemporary Chinese Culture I
FLLT 321	Topics: Chinese Literature in Translation
FLLT 328	Topics: Japanese Literature in Translation
FLLT 331	Introduction to Chinese Films
FLLT 338	Light & Shadow: Japanese Films
FLLT 380	Topics: Japanese Culture in Translation
FLLT 381	Topics: Chinese Culture in Translation
JAPN 208	Contemporary Japanese Culture I
MUSC 206	Music of China
PHIL 310	Chinese Religion and Philosophy

6 credits from the following courses in the social sciences:

ANTH 210	Peoples and Cultures of Southeast Asia
or	
ANTH 211	Peoples and Cultures of East Asia
HIST 137	East Asian Civilizations: China
HIST 138	East Asian Civilizations: Japan
HIST 270	History of Modern Asia
POSC 312	East Asian Political Systems

B. Advanced Courses:

6 credits from the following courses:

ANTH 310	Asian Women's Lives
ANTH 312	Asian Women in the Globalized Workplace
ANTH 313	New Rich in Asia
ARTH 367	Art, Architecture & Archaeology in East Asia
CHIN 455	Selected Authors and Works in Chinese
CRJU 467	Crime & Criminal Justice in East Asia
ENGL 382	Literature and History of Asian America
FLLT 328	Images of Women in Japanese Literature
FLLT 330	Chinese Women Writers
HIST 365	Topics in East Asian History*
HIST 367	What is Global about Japanese Culture?
HIST 369	China Since 1900
HIST 370	History of Modern Japan
HIST 371	Post-war Japan
HIST 372	Popular Culture in Urban Japan
HIST 391	World War II in Asia and the Pacific
HIST 392	Buddhism and Politics in Modern Asia
HIST 393	History of Modern Vietnam
HIST 479	Seminar in Asian History*
JAPN 455	Selected Authors, Works and Themes
PHIL 367	Buddhist Philosophy
PHIL 367	Daoism
POSC 427	Politics in China
POSC 428	Politics in Japan
POSC 429	Southeast Asia and the World
POSC 443	China and the World

*May be repeated if topics varied.

For approval of Independent Studies and Special Problems courses and for course substitutions in all the East Asian Studies degree programs, please contact the Director (Dr. David Pong) before registering for them. This course list will be updated from time-to-time. A minimum of C- is required in all courses.

ECONOMICS

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

The Bachelor of Arts in Economics and Economics Education are offered by the Lerner College of Business and Economics. Please refer to page 179 or www.lerner.udel.edu/economics for the description and requirements for the majors.

ENGLISH

Telephone: (302) 831-2361
 http://www.english.udel.edu
 Faculty Listing: http://www.english.udel.edu/faculty_profiles.htm

The English Department has a widely varied undergraduate program. Undergraduates concentrate in literary studies, film, professional writing, creative writing, ethnic and cultural studies, or drama, or they may elect the program in English education. Students may change their concentration at any time. 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.

The literary studies concentration includes courses in literature from Britain, America, and around the world. The film concentration includes courses in history and theory of film as well as film and literature, Black cinema, and other subjects. The concentration in professional writing is designed to prepare students for positions as professional writers or editors in industry and government. This concentration requires an internship. The creative writing concentration offers students the opportunity to take courses in scriptwriting, poetry writing, and fiction writing as well as literature courses in these genres. The ethnic and cultural studies concentration emphasizes multicultural literatures in the Americas, folklore, and media studies. The drama concentration allows students to earn the English degree with an emphasis on the study of theatre and literature. The major in English education prepares students to teach English in the secondary schools (grades 7-12). Graduates of this program receive the BA in English and are eligible for teacher certification in 27 states and the Overseas Dependent Schools System.

The department offers a minor in literary studies and offers a number of courses that are part of the minor in journalism. The department also works with an interdisciplinary minor in interactive media. A 4+1 program in teaching English as a second language allows students to do graduate work as part of their undergraduate program and attain a master's degree in TESL in five years.

The department sponsors a number of readings and lectures throughout the academic year, publishes the literary magazine, Caesura, and has an active chapter of Sigma Tau Delta, the national English honor society.

**DEGREE: BACHELOR OF ARTS
 MAJOR: ENGLISH
 CONCENTRATION: LITERARY STUDIES**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

The following five courses: 15
 ENGL 101 Tools of Textual Analysis
 ENGL 102 Texts in Time
 ENGL 204 American Literature
 ENGL 205 British Literature to 1660
 ENGL 206 British Literature 1660-Present

A course in cultural diversity (ENGL 202, 214, 215, 344, 345, 348, 349, 376, 378, 380, 381, 382) 3

Eighteen credits of English, at least twelve of which must be at the 300-level or above. All courses offered by the English Department, except those designed for non-majors, will satisfy this requirement. 18

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: PROFESSIONAL WRITING**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

The following ten courses 30
 ENGL 101 Tools of Textual Analysis
 ENGL 102 Texts in Time
 ENGL 204 American Literature
 ENGL 205 British Literature to 1660
 ENGL 206 British Literature 1660-Present
 ENGL 415 Writing for the Professions (or 312 or 410, if 415 is not available)
 ENGL 411 Rhetoric for Business and Technical Writers
 ENGL 412 Business and Technical Publication
 or
 ENGL 416 Designing Online Information
 ENGL 414 Technical Editing
 ENGL 464 Internship in Business/Technical Writing
 Six additional English credits 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: ENGLISH
 CONCENTRATION: CREATIVE WRITING**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

The following five courses 15
 ENGL 101 Tools of Textual Analysis
 ENGL 102 Texts in Time
 ENGL 204 American Literature
 ENGL 205 British Literature to 1660
 ENGL 206 British Literature 1660-Present

Two of the following courses 6
 ENGL 207 Introduction to Poetry
 ENGL 208 Introduction to Drama
 ENGL 210 Introduction to the Short Story

Two of the following workshops: 6
 ENGL 303 Scriptwriting
 ENGL 304 Poetry Writing
 ENGL 305 Fiction Writing
 ENGL 306 Topics in Writing
 ENGL 404 Advanced Poetry Writing
 ENGL 405 Advanced Fiction Writing

Nine credits of upper-division literature (ENGL 320-390) 9

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH
CONCENTRATION: DRAMA**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

The following six courses: 18

- ENGL 101 Tools of Textual Analysis
- ENGL 102 Texts in Time
- ENGL 205 British Literature to 1660
- ENGL 208 Introduction to Drama
- ENGL 324 Shakespeare
- ENGL 372 Studies in Drama
- or
- ENGL 472 London Theatre or Irish Drama in Performance (offered through study abroad)
- ENGL 303 Scriptwriting 3
- or

One of the following courses in the Theater Department: THEA 200, 202, 203, 204, 207, 209, 226, and 300-311

Fifteen additional English credits, with no more than six credits at the 15
200-level. Since 372 and 472 have variable content and may be taken more than once if topics vary, after a section of one of these courses has been taken to fulfill the requirement above, subsequent sections may count towards these fifteen English credits.

Six additional credits of drama-related electives in the Theater Department. . . . 6
These courses would have to be approved by the student's English Department advisor, who would be a member of the Drama Concentration faculty. Students may substitute MUSC 103 or MUSC 104 for one of these 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: ENGLISH
CONCENTRATION: ETHNIC AND CULTURAL STUDIES**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

The following eight courses: 24

- ENGL 101 Tools of Textual Analysis
- ENGL 102 Texts in Time
- ENGL 204 American Literature
- ENGL 206 British Literature 1660-Present
- ENGL 215 Introduction to Ethnic and Cultural Studies
- ENGL 300 Texts and Contexts
- ENGL 376 World Literature
- ENGL 382 Studies in Multicultural Literature

One three-credit course in the English Department, 3
drawn from a list of courses approved by the faculty of the concentration OR a three-credit course in the department of Anthropology, Art, Art History, Foreign Languages and Literatures, History, Political Science, or Sociology and Criminal Justice approved by the student's academic advisor or the director of the concentration.

Nine additional English credits at the 300- or 400-level. Since ENGL 382 9
has variable content and may be taken more than once if topics vary, after the course has been taken to fulfill the requirement above, subsequent sections of ENGL 382 may count towards these three English 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: ENGLISH
CONCENTRATION: FILM**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

The following two courses: 6

- ENGL 101 Tools of Textual Analysis
- ENGL 102 Texts in Time

Three of the following courses: 9

- ENGL 204 American Literature
- ENGL 205 British Literature to 1660
- ENGL 206 British Literature 1660-Present
- ENGL 208 Introduction to Drama
- ENGL 209 Introduction to the Novel
- ENGL 210 Introduction to the Short Story

The following four courses: 12

- ENGL 217 Introduction to Film
- ENGL 317 Film History
- ENGL 318 Studies in Film (variable content, may be repeated once)
- ENGL 417 Film Theory and Criticism

Nine additional English credits at the 300- or 400-level. 9

With the permission of the student's academic advisor or the director of the concentration, students may substitute up to six relevant credits in Art, Art History, Foreign Languages and Literatures, History, or Political Science for up to six of these nine 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 ARTS
MAJOR: ENGLISH EDUCATION**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

- ENGL 101 Tools of Textual Analysis 3
- ENGL 102 Texts in Times 3
- ENGL 204 American Literature. 3
- ENGL 205 British Literature to 1660. 3
- ENGL 206 British Literature 1660-Present 3

A course in cultural diversity 3
(ENGL 202, 214, 215, 344, 345, 348, 349, 376, 378, 380, 381, 382)

- ENGL 324 Shakespeare 3
- ENGL 294 English Language: Grammar and Usage 3
- ENGL 394 English Language: Rhetorical and Cultural Contexts 3
- ENGL 376 World Literature 3

A course in writing taken from the following options: 3
ENGL 301-312, 316, 404-415

A course in contemporary literature, taken from the following options: 3
207, 208, 209, 210, 212, 341, 342, 345, 348, 353, 356. In addition, the English Education program will designate variable topics courses (e.g., ENGL 480) as fulfilling this requirement when the content is appropriate.

The following courses:

- 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 420 Reading in the Content Area 1
- ENGL 482 Seminar in Teaching English I 3

ENGL 483	Seminar in Teaching English II.	3
EDUC 481	Teaching English in Secondary School	3

The following courses:

One course in fine arts taken through the Art History, Theater, or Music 3
Department

One course in public speaking or performance taken from the following options: 3
COMM 251, 252, 212, 350; THEA 102, 200, 204, 206, 226, 360

One course in American history taken from the following options: 3
HIST 220, 221, 278, 300-328, 459

One course in non-western history taken from the following options: 3
HIST 103, 104, 130, 131, 136-138, 270, 302, 368-372, 377, 378, 380, 381, 391-393, 444, 479

One course in modern sociocultural studies taken from the following options: . . 3
ANTH 101, 222-227, 255, 401; BAMS 110, 205, 215, 305, 322, 355, 361, 415; POSC 222, 227; SOCI 201-213, 302, 331, 343, 356, 360, 401; WOMS 201, 216, 222, 2340, 260, 363, 389; IFST 202, 230, 333; CSCC 355

LING 101 Introduction to Linguistics 3

A grade of C- or better is required in all required ENGL, EDUC 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 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 BA Degree in English (all concentrations) or in English Education, the recipient must complete:

1. All of the requirements for the BA degree in English (and, where appropriate, concentration requirements) or in English Education.
2. All of the University's generic requirements for the Honors Degree.
3. Nine of the Honors 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 following five courses: 15

ENGL 101	Tools of Textual Analysis
ENGL 102	Texts in Time
ENGL 204	American Literature
ENGL 205	British Literature to 1660
ENGL 206	British Literature 1660-Present

Three additional English credits at the 300-level or above. 3

EUROPEAN STUDIES

Director: Dr. Nancy Nobile
Telephone: (302) 831-4101
E-mail: nobile@udel.edu
www.fllt.udel.edu/continental_european.html

European Studies is an interdisciplinary major that blends the humanities and the social sciences. Offered jointly by the

departments of History, Political Science, and Foreign Languages and Literatures, it stresses comprehensive knowledge of a particular European country through study of its language, literature, history, political institutions, and international relations. The major also encourages students to take courses in philosophy, art history, music and geography, thereby fostering multifaceted understanding of the target country within its general European context.

Students enrolled in this program will gain 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 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: EUROPEAN STUDIES**

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

CURRICULUM

CREDITS

See page 90 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 European literature at the 300-level
- 3 credits in continental European civilization at the 300- or 400-level

History:

12 credit hours of work in History courses as follows:

- HIST 101 or 102 Western Civilization 3
 - 3 additional credits of History at the 200-, 300- or 400-level
 - 6 additional credits of History at the 300- or 400-level
- The 200-, 300-, and 400-level History courses will be drawn from 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: 3

- POSC 310 European Governments
- POSC 372 East Central European Politics

Two of the following: 6

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

Nine credits of work in any combination of courses in the foreign language, History, Political Science, or in related fields (such as Art History, Geography, Music), all with the prior consent of the student's advisor. The Honors thesis or Degree with Distinction thesis can be included in this category 9

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

HONORS BACHELOR OF ARTS: EUROPEAN STUDIES

The requirements for the Honors BA in European Studies are:

1. All requirements for the BA in European Studies.
2. All the University's generic requirements for the Honors Degree (see page 52 of this catalog). The Honors credits in the major shall come from at least two different participating departments, and shall include at least two courses at the 300-level or above.
3. The cumulative grade point average for all courses in the major must be at least 3.400.

FOREIGN LANGUAGES AND LITERATURES

Telephone: (302) 831-2591

<http://www.flit.udel.edu>

Faculty Listing: <http://www.flit.udel.edu/faculty/menu1.html>

MODERN. The BA 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 Chinese, 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. The Department of Foreign Languages and Literatures also collaborates with the Department of Business Administration in the Alfred Lerner College of Business and Economics on the major in International Business Studies. (See program description for this major under Business Administration.)

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 BA in Foreign Languages and Literatures 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 BA 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.

The University computer system will block students from registering for a language course for which they are over-qualified. For example, the system will not permit a student who has had three years of Spanish in high school to enroll in Spanish 105.

Students who are deemed over-qualified for 105 or 106 but who do not feel comfortable at the level where they are placed may enroll at the lower level with auditor status.

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 12 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 Austria (Salzburg), Mexico (Puebla), Spain (Granada) and Italy (Siena). Beginning and intermediate-level students may participate in winter and/or summer session programs in Argentina, Brazil, Chile, Costa Rica, Ecuador, France, Germany, Greece, Italy, Japan, Martinique, Mexico, Panama, Russia, Spain, or Tunisia.

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 BA 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 BA 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 52 of this catalog).
 1. At least six of the Honors credits in the BA in Foreign Languages and Literatures or the BA in Foreign Language Education must be at the 300-level or above.
 2. For the Honors Degree with Distinction, the Honors thesis will normally be written in the target language. With the prior approval of the thesis director and the Department Chair, the thesis may be written in English.
 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.
 4. For the joint degree with Political Science, the Honors credits in the majors shall come from both participating departments, and shall include at least two courses at the 300-level or above. The cumulative grade point average for all courses in the major must be at least 3.400.

**DEGREE: BACHELOR OF ARTS
MAJOR: FOREIGN LANGUAGES AND LITERATURES
CONCENTRATION: ANCIENT GREEK AND
ROMAN STUDIES**

This concentration requires the choice of one of the following options: Civilization and Culture, Ancient Greek and Latin Language and Literature, Latin Language and Literature. 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/classics/programs.htm; paper copies are available at the department office, 103 Jastak-Burgess Hall.

CURRICULUM CREDITS

See page 90 for University and College Requirements.

MAJOR REQUIREMENTS

Nine credits on Ancient Greek and Roman authors or topics chosen from among the following FLIT courses:

- FLIT 202 (Biblical and Classical Literature), FLIT 316 (Gods, Heroes, and Monsters: Classical Mythology), FLIT 322 Topic: (In Love and War: Greek Tragedy), FLIT 322 (Topic: Antiquity through Modern Eyes), FLIT 320/322/330 (variable topics, genres, periods, and authors) 9
- Six credits in Ancient Greek or Latin at the 200 level or above 6

Twenty-four credits chosen from the following programs and departments in accordance with the requirements of the option selected and with prior approval of the advisor: GREK, LATN, FLIT, ANTH, ARTH, HIST, PHIL, POSC, THEA. 24

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: FRENCH STUDIES**

Specific requirements for this concentration are described below. These requirements can also be viewed on-line at: www.fllt.udel.edu/lang/french/frenchstudies.html. Paper copies are available at the department office, 103 Jastak-Burgess Hall.

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

Thirteen courses (39 credits), as follows:

- Ten courses in French (30 credits):
- FREN 211 3
- Two of: FREN 301, 302, 355 6
- Three of: FREN 3xx, FREN 4xx 9
- One FREN 4xx (literature) 3
- Three additional FREN 4xx 9

A total of three courses may be taken from a wide selection 9
 FREN 2xx, FREN 207, FREN 208, FREN 3xx, FLIT 202 or any FLIT course numbered 320-330; HIST 339, ARTH 339, POSC 441 (courses offered abroad).
 Extra-departmental courses: HIST 346 (Age of Louis XIV); HIST 347 (The French Revolution and Napoleon); HIST 361, HIST 475, ARTH 225 (Eighteenth Century Art); ARTH 227 (Modern Art I); ARTH 228 (Modern Art II), ARTH 307.

NOTE: Students wishing to pursue a linguistics option in French 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: FRENCH EDUCATION**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

- FREN 211 French Reading & Composition 3
- FREN 301 French Literature: Prose 3
- FREN 302 French Literature: Poetry & Theatre 3

One of the following courses: 3
 FREN 314 French Phonetics
 FREN 403 Structure of French

One of the following courses: 3
 FREN 306 Practical Oral/Written Expression
 FREN 305 Advanced French Conversation

Two of the following courses: 6

- FREN 308 Contemporary France
- FREN 325 French Civilization I
- FREN 326 French Civilization II
- FREN 453 French Civilization III

One of the following courses: 3
 FREN 404 Advanced Composition and Grammar
 FREN 405 Translation and Stylistics

FREN 406 Advanced French Language

Six credits in French Literature at the 400-level. 6

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

FLLT/LING 421 Methods of Teaching Foreign Languages 3

FLLT/LING 422 Language Syllabus Design 3

LING/FLLT 424 Second Language Testing 3

Grade of C- or better required in all required FREN, 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. 3

EDUC 205 Human Development: Grades K-8 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 page 215) 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/fllt/faculty/lisat/grmnba.html. Paper copies are available at the department office, 103 Jastak-Burgess Hall.

CURRICULUM CREDITS

See page 90 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 320-330; HIST 353, 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 90 for University and College requirements.

MAJOR REQUIREMENTS

- Ten courses conducted in German:
Two of GRMN 2xx 6
Two of GRMN 3xx 6

Two of GRMN 3xx, 4xx 6

Four of GRMN 4xx 12

EDUC 413 Adolescent Development and Educational Psychology 4

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

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

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 page 215) 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 on-line at: www.udel.edu/fllt/lang/italian/italba.html. Paper copies are available at the department office, 103 Jastak-Burgess Hall.

CURRICULUM CREDITS

See page 90 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 90 for University and College requirements.

MAJOR REQUIREMENTS

- ITAL 200 Italian Grammar Review. 3
or
ITAL 250 Introduction to Business Italian
ITAL 205 Italian Conversation. 3
or
ITAL 206 Culture through Conversation
ITAL 211 Italian Reading and Composition: Short Fiction. 3
or
ITAL 212 Italian Reading and Composition: Drama and Prose

ITAL 305	Advanced Italian Conversation and Composition	3
or		
ITAL 306	Practical Oral/Written Expression	6
ITAL 3xx	Literature	3
ITAL 3xx	Civilization	3
ITAL 4xx	Literature	6
ITAL 4xx	Language	3
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
FLLT/LING 421	Methods of Teaching Foreign Languages	3
FLLT/LING 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.	

To be eligible to student teach, Foreign Language Education students must have a GPA of 3.0 in their Italian 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 page 215) 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 CREDITS

See page 90 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
FLLT/LING 421	Methods of Teaching Foreign Languages	3
FLLT/LING 422	Language Syllabus Design	3
LING/FLLT 424	Second Language Testing	3

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

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 page 215) 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
CONCENTRATION: CLASSICS**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

GREK 101/102	Elementary Ancient Greek	6
	One additional GREK course at the 200-, 300-, or 400-level	3
LATN 214	Vergil (prerequisite: LATN 213 or permission of instructor)	3
	Two additional LATN courses at the 200- or 300-level (excluding LATN 213)	6
	Three additional LATN courses at the 300- or 400-level	9

One of the following	3
FLLT 202	Biblical and Classical Literature
FLLT 316	Classical Mythology
FLLT 322	Topics: Classical Literature in Translation

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

Grade of C- or better required in all required LATN, EDUC, FLLT, and LING courses. 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 page 215) 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 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, 103 Jastak-Burgess Hall.

CURRICULUM CREDITS

See page 90 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
FLLT 327	Topics: Russian Literature in Translation	3
FLLT 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: 9
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, 103 Jastak-Burgess Hall.

CURRICULUM CREDITS

See page 90 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, 355, 370	6
One of SPAN 308, 325, 326	3
Two SPAN 4xx (Literature)	6
Two SPAN 400-level courses (language, literature, film, culture)	6

Four courses (12 credits) to be chosen from: 12

SPAN 2xx, SPAN 207, SPAN 208, SPAN 3xx, SPAN 4xx, PORT 315, PORT 316, PORT 267, PORT 367.

FLLT 202, any FLLT course numbered 320-330, FLLT 475 (Literary Criticism)

GEOG 226 Geography of Latin America

HIST 339, ARTH 338, ARTH 339, POSC 441, ANTH 367 (courses offered abroad)

POSC 311 Politics of Developing Nations

POSC 426 Latin American Political Systems

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 251 Ethnic Arts

ANTH 265 High Civilizations of the Americas

ANTH 323 Pre-history of South America

ANTH 327 Peoples of the Caribbean

ANTH 337 South American Indians

ANTH 338 Arts and Crafts of Native South America

ANTH 375 Peoples and Cultures of Modern Latin America

ANTH 380 Peoples and Cultures of Mexico and Central America

ARTH 232 Art of Latin America

ARTH 419 Seminar in Spanish Art of the Golden Age

ARTH 440 Seminar in Latin American Art

ECON 311 Economics of Developing Countries

PORT 207 Contemporary Brazil

SOCI/CRJU 322 Crowds, Cults, and Revolutions

WOMS 250 Topics in International Women's Studies: Latin 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 90 for University and College requirements.

MAJOR REQUIREMENTS

SPAN 201	Spanish Reading and Composition	3
	(SPAN 200 is a prerequisite)	
SPAN 305	Oral Communication	3
or		
SPAN 306	Practical Oral/Written Expression	
SPAN 314	Spanish Phonetics and Phonology	3

One of the following courses: 3

SPAN 308	Contemporary Spain II	
SPAN 325	Spanish Civilization and Culture	
SPAN 326	Latin American Civilization and Culture	

Any three of the following six literature survey courses: 9

SPAN 301	Survey of Spanish Literature	
SPAN 302	Survey of Spanish Literature	
SPAN 303	Survey of Spanish-American Literature	
SPAN 304	Survey of Spanish-American Literature	
SPAN 355	Special Topics	
SPAN 370	Studies in Spanish Literature (taught in Spain)	

One of the following courses:	3	
SPAN 300	Advanced Spanish Composition and Grammar I	
SPAN 401	Advanced Spanish Grammar II	
SPAN 403	History of the Spanish Language	
SPAN 406	Advanced Spanish Language	

Six credits in SPAN literature at the 400-level	6	
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
FLLT/LING 421	Methods of Teaching Foreign Languages	3
FLLT/LING 422	Language Syllabus Design	3
LING/FLLT 424	Second Language Testing	3

Grade of C- or better required in all required SPAN, 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	3
EDUC 205	Human Development: Grades K-8	3

To be eligible to student teach, Foreign Language Education students must have a GPA of 3.0 in their Spanish 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 page 215) to obtain the student teaching application and other information concerning student teaching policies.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

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

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

First Language

Six first-language elective credits at the 200-level and above. 6

Nine credits in literature at the 300 and 400-level 9
(at least three credits at each level)

Nine additional credits at the 300- and 400-level. 9

Second Language

Six second-language elective credits at the 200-level and above. 6

Nine credits in literature at the 300 and 400-level 9
(at least three credits at each level)

Three additional credits at the 400-level. 3

Third Language

Twelve to fifteen credits of third-language courses (at least six credits at or above the 200-level for Western language) 12-15

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

Notes:

- (1) Selection of First Language is limited to those languages in which the Department of Foreign Languages and Literatures offers a major. The second language may be selected from languages in which the Department of Foreign Languages and Literatures offers a major or a minor.
- (2) Students enrolled in the Three Languages Major are strongly encouraged to participate in at least one of the study abroad programs sponsored by the Department of Foreign Languages and Literatures.

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

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

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

Five 300-level courses, at least two of which must deal with countries that use the chosen foreign language. 15

History seminar at the 400-level or above 3
 (excluding HIST 491 and 493 and Independent Study)

One of the following language options:

Classics

Civilization: Two classical civilization (or culture) courses: e.g., FLIT 202 (Biblical and Classical Literature), 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 GREK 213 and GREK 214 and 6 credits of Latin at the 200-level or above 12

French

Civilization: FREN 325 (French Civilization I), or FREN 326 (French Civilization II) or FREN 453 (French Civilization III) 3
 Literature: FREN 301 (Introduction to French Literature: Prose) and FREN 302 (Introduction to French Literature: Poetry and Theatre) 6
 400-level literature course 3
 Two courses at the 200, 300, or 400-level 6

German

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

Russian

Civilization: RUSS 325 (Russian Civilization) 3
 Literature: RUSS 310 (Introduction to Russian Literature I) and RUSS 312 (Introduction to Russian Literature II) 6
 400-level literature course 3
 Two courses at the 200, 300, or 400-level 6

Spanish

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

ELECTIVES

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

Honors Degree: An Honors Degree option is also available.

CREDITS TO TOTAL A MINIMUM OF 124

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

CURRICULUM CREDITS

See page 90 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
	(or other required intro courses)	
POSC 240	Introduction to International Relations.	3
POSC 270	Comparative Politics	3
POSC 310	European Governments	3

POSC 441	Problems of Western European Politics by Country	3
or		
POSC 442	Problems of Western European Politics	

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

One of the following language options:

French

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

German

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

Spanish

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

In 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 Salzburg, 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 BA 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 Rulers and Rebels; FLIT 322 Greek Tragedy; FLIT 202 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, FLIT, GREK, HIST, LATN, 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 or 400-level, and one other 400-level course.

GERMAN: 18 credits above the 100-level including at least two courses at the 300-level and two courses at the 400-level. GRMN 208 is not for minor credit.

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 FLIT course.

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

SPANISH: 21 credits including SPAN 200, SPAN 201 and an additional 200-level course taught in Spanish; 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 (Newark campus only)	6
FREN 306 or 406	3
FREN 308	3
Three of: ARTH 339, FREN 355, FREN 455, HIST 339, POSC 441	9
	21

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

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

GERMAN STUDIES MINOR

GRMN 2xx, 3xx, 4xx (Newark campus only)	6
GRMN 206, 306 or 406	3
Four courses at the 200-, 300-, and 400-levels offered during the semester program in Salzburg	12
	21

No more than 6 of the total 21 credits may be at the 200-level. Minors in German Studies are required to take at least one literature course at the 300-level or above.

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

SPANISH STUDIES MINOR

SPAN 2xx, 3xx, 4xx	6
SPAN 306 or 406	3
SPAN 308	3
Three of: ARTH 339, SPAN 370, SPAN 455, HIST 339, POSC 441	9
	21

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

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

FOREIGN LANGUAGE AND HONORS FOREIGN LANGUAGE CERTIFICATES

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

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

To earn a BA degree with a Foreign Language Certificate in Brazilian Portuguese, Chinese, French, German, Italian, Japanese, or Spanish, a student is required to complete a designated sequence of four courses at the 200- and 300-levels. This is accomplished through a combination of two courses taken during Study Abroad Sessions in Brazil, China, France, Martinique, Germany, Italy, Japan, Spain, or Latin America, and two courses taken on the Delaware campus. A qualified student must complete the designated sequence of four 200- or 300-level Chinese, French, German, Italian, Japanese, or Spanish courses with no grade below a C.

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

1. Complete the designated sequence of four 200- or 300-level French, German, Italian, Japanese, or Spanish courses with no grade below a B.
2. Take all four of these courses for Honors credit.
3. Achieve a 3.000 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.

BRAZILIAN PORTUGUESE CERTIFICATE COURSES

<i>Study Abroad Session in Brazil:</i>		CREDITS
PORT 207	Brazil Past and Present	3
<i>Brazil or Delaware Campus:</i>		
PORT 216	Intensive Portuguese for Spanish Speakers I	3
PORT 316	Intensive Portuguese for Spanish Speakers II	3

Elective to be chosen from FLIT 337 (offered only on Delaware campus) or an elective offered in Brazil (including ANTH 311 or FLIT 320).

CHINESE CERTIFICATE COURSES

<i>Study Abroad Session in Beijing, China:</i>		CREDITS
CHIN 206	Culture through Conversation	3
CHIN 208	Contemporary China I	3
<i>Delaware Campus:</i>		
CHIN 200 (or higher, excluding 205)		3
CHIN 3xx		3

FRENCH CERTIFICATE COURSES (FRANCE OR MARTINIQUE)

<i>Study Abroad Session in Caen, France or Fort de France, Martinique:</i>		CREDITS
FREN 206	Culture through Conversation	3
and one of the following:		
FREN 207	Contemporary Caribbean World (Martinique)	3
FREN 208	Contemporary France I (France)	3
<i>Delaware Campus:</i>		
FREN 211 (or higher) French Reading and Composition		3
FREN 3xx		3

GERMAN CERTIFICATE COURSES

<i>Study Abroad Session in Bayreuth, Germany:</i>		CREDITS
GRMN 206	Culture through Conversation	3
GRMN 208	Contemporary Germany I	3
<i>Delaware Campus:</i>		
GRMN 211 (or higher) German Reading and Writing		3
GRMN 3xx		3

ITALIAN CERTIFICATE COURSES

	CREDITS
<i>Winter Session in Siena, Italy:</i>	
ITAL 206 Culture through Conversation	3
ITAL 208 Contemporary Italy I	3
<i>Delaware Campus:</i>	
ITAL 211 (or higher) Italian Reading and Composition:Short Fiction	3
ITAL 3xx	3

Alternate Plan for Italian Certificate

	CREDITS
<i>Spring Semester in Siena:</i>	
ITAL courses at the 200-, 300- or 400-level	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

	CREDITS
<i>Study Abroad Session in Kobe, Japan:</i>	
JAPN 206 Culture through Conversation	3
JAPN 208 Contemporary Japan I	3
<i>Delaware Campus:</i>	
JAPN 200 (or higher, excluding 205) Japanese Grammar and Composition	3
JAPN 3xx	3

**SPANISH CERTIFICATE COURSES
(SPAIN OR LATIN AMERICA)**

	CREDITS
<i>Study Abroad Session in Spain or Latin America:</i>	
SPAN 206 Culture through Conversation	3
and one of the following:	
SPAN 207 Latin America: Past and Present.	3
SPAN 208 Spain: Past and Present	3

<i>Delaware Campus:</i>	
SPAN 200 (or higher, excluding 205) Spanish Composition and Grammar.	3
SPAN 3xx	3

GEOGRAPHY

Telephone: (302) 831-2294
<http://www.udel.edu/Geography>
 Faculty Listing: <http://www.udel.edu/Geography/faculty.html>

The Department of Geography offers BA programs in Geography and Geography Education, as well as a minor in Geography. The Department also co-sponsors the BS 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 BA programs in Geography, the Geography Department, in cooperation with the Department of Geological Sciences, the Department of Biological Sciences, and the College of Marine and Earth Studies, offers a BS 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 BS students will be able to contribute to society's understanding of and solutions to problems that arise from the human occupation and use of the environment.

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**

CURRICULUM	CREDITS
------------	---------

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

Two physical geography courses:	7
GEOG 101/111 Physical Geography: Climatic Processes, with lab or GEOG 152 Climate and Life	
GEOG 106 Physical Geography: Land Surface Processes	
Two of the following human geography courses:	6
GEOG 102 Human Geography	
GEOG 120 World Regional Geography	
GEOG 203 Cultural Geography	
GEOG 210 Economic Geography	
Two methods courses:	7
GEOG 250 Computer Methods for Geographic and Environmental Sciences or GEOG 271 Introduction to Geographic Data Analysis	
GEOG 372 Geographic Information Systems	
Six credits selected from geography courses	6
at or above the 300-level	
Six credits selected from geography courses	6
at or above the 200-level	
GEOG 445 Method and Theory in Geography	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: GEOGRAPHY EDUCATION**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

Two physical geography courses:	7
GEOG 101/111 Physical Geography: Climatic Processes, with lab or GEOG 152 Climate and Life	
GEOG 106 Physical Geography: Land Surface Processes	
Two of the following human geography courses:	6
GEOG 102 Human Geography	
GEOG 120 World Regional Geography	
GEOG 203 Cultural Geography	
GEOG 210 Economic Geography	
Two methods courses:	7
GEOG 250 Computer Methods for Geographic and Environmental Sciences or GEOG 271 Introduction to Geographic Data Analysis	
GEOG 372 Geographic Information Systems	
Six credits selected from geography courses	6
at or above the 300-level	
Six credits selected from geography courses	6
at or above the 200-level	
GEOG 445 Method and Theory in Geography	3
ECON 151 Introduction to Microeconomics	3
ECON 152 Introduction to Macroeconomics	3
POSC 150 The American Political System	3
HIST 104 World History II.	3
HIST 206 United States History since 1865	3
Additional credits as follows:	12
3 credits in ECON, 6 credits in POSC, 3 credits in HIST	
EDUC 413 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

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 competency test as established by the University Council on Teacher Education. Students must consult with the teacher education program coordinator (see page 215) 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:

- All requirements for the Bachelor of Arts degree in Geography or Geography Education.
- All of the University's generic requirements for the Honors Degree (see page 52 of this catalog).

MINOR IN GEOGRAPHY

A minimum of 18 credits of course work in geography must be completed for a minor. Nine credits shall be at the foundation level, taking one course from each of these three lists:

Physical Geography: GEOG 101, 106, 152, or 220

Human Geography: GEOG 102, 120, 203, or 210

Geographic Methods: GEOG 250, 271, or 372

Nine more geography credits must be taken at or above the 300 level.

**DEGREE: BACHELOR OF SCIENCE
MAJOR: ENVIRONMENTAL SCIENCE**

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)	3
First Year Experience (see page 68)	0-4
Discovery Learning Experience (see page 68)	3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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, pages 93-95.)

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 pages 95-99)

Group A	6
Understanding and appreciation of the creative arts and humanities.	
Group B	6
The study of culture and institutions over time.	
Group C	6
Empirically based study of human beings and their environment.	

MAJOR REQUIREMENTS

GEOG 107 General Geology	4
BISC 207/208 Introductory Biology I and II	8
GEOG 220 Meteorology	3
GEOG 250 Computer Methods for Geography	4
BISC 302 General Ecology	3
GEOG 412 Physical Climatology	4
GEOG 303 Earth Surface I: Surficial Processes	4
MAST 482 Introduction to Ocean Sciences	3
ENSC 450 Proseminar 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 Microclimatology	
MAST 621 Coastal Field Biology	
MAST 464 Marine Science Summer Internship (at least 3 credits)	
MAST 468 Undergraduate Research (at least 3 credits)	

Two additional courses from within one of the following three areas of concentration: 6-8

Atmospheric Environment

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

Biological Environment

- BISC 300 Introduction to Microbiology
- BISC 306 General Physiology
- BISC 495 Evolution
- BISC 637 Population Ecology
- BISC 641 Microbial Ecology

Geological Environment

- GEOL 300 Earth's Materials I: Minerals
- GEOL 302 Earth's Materials II: Rocks
- GEOL 304 Earth's Surface II: Stratigraphy
- GEOL 305 Earth's 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

Marine Environment

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

Two additional courses taken from the following list or from the courses listed under the four areas of concentration above 8-12
 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 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 Environment
- GEOG/GEOG 385 Geomorphology
- GEOL 407 Igneous and Metamorphic Petrology
- GEOG/GEOG 411 Fluvial Geomorphology
- GEOL 412 Geological Approaches to Archeology and History
- GEOL 414 Quaternary Geology and Geochronology
- GEOL 416 Paleocology
- GEOL 421 Environmental and Applied Geology
- GEOL 428 Hydrogeology
- GEOL 446 General Geochemistry
- GEOL 453 Elementary Geophysics I
- GEOL 454 Elementary Geophysics II
- GEOG/GEOG 482 Physical Geography of Cold Environments
- MAST 606 Ocean and Atmospheric Remote Sensing
- MAST 620 Energy Policy and Administration
- MAST 670 United States Ocean and Coastal Policy
- MAST 671 Coastal Processes and Management
- MAST 678 Coastal and Maritime Law
- PHYS 208 Fundamentals of Physics II
- PLSC 204 Introduction to Soil Science
- POSC 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
 or
 PHYS 201 Introductory Physics I
- One of the following five courses: 3
- 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 124

HISTORY

Telephone: (302) 831-2371
<http://www.udel.edu/History/>
 Faculty Listing: <http://www.udel.edu/History/faculty.html>

The History Department offers several options to its undergraduate students. In addition to the regular major, students can choose a concentration in American, European, or World 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. Concentration options are available for all majors. 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. 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**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

- HIST 101 Western Civilization to 1648 3
- HIST 102 Western Civilization: 1648 to the Present 3
- HIST 268 Seminar 3

- Course in Asian, African, Latin American, or Middle Eastern history. 3
- History course before 1700, not including HIST 101 3
- History courses at or above the 300 level 12
- History seminar at the 400 level or above 3
 (excluding HIST 464, 491 and 493 and Independent Study)

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
 MAJOR: HISTORY
 CONCENTRATION: AMERICAN HISTORY**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization: 1648 to the Present	3
HIST 268	Seminar	3

Course in Asian, African, Latin American, or Middle Eastern history. 3
 History course before 1700, not including HIST 101 3

Six (6) courses in the field of emphasis, four of which must be history courses at or above the 300-level. With written approval of the advisor, a student may take two of these courses outside the Department of History 18

History seminar at the 400-level or above 3
 (excluding HIST 464, 491 and 493 and Independent Study)

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
 MAJOR: HISTORY
 CONCENTRATION: EUROPEAN HISTORY**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization: 1648 to the Present	3
HIST 268	Seminar	3
Course in Asian, African, Latin American, or Middle Eastern history.		3
Seven (7) courses in the field of emphasis, four of which must be history courses at or above the 300-level. With written approval of the advisor, a student may take two of these courses outside the Department of History.		18
At least one of these courses has to be on the history of Europe before 1700, not including HIST 101		21

History seminar at the 400 level or above 3
 (excluding HIST 464, 491 and 493 and Independent Study)

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
 MAJOR: HISTORY
 CONCENTRATION: WORLD HISTORY**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization: 1648 to the Present	3
HIST 268	Seminar	3

Course in Asian, African, Latin American, or Middle Eastern history. 3

Seven (7) courses in the field of emphasis, four of which must be history courses at or above the 300-level. With written approval of the advisor, a student may take two of these courses outside the Department of History. At least one of these courses has to be on non-Western history before 1700. 21

History seminar at the 400 level or above 3
 (excluding HIST 464, 491 and 493 and Independent Study)

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
 MAJOR: HISTORY
 CONCENTRATION: JOURNALISM**

(The major in History with a concentration in Journalism is not enrolling students at this time)

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

(History courses (minimum of 24 credits required))

HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization: 1648 to the Present	3
HIST 268	Seminar	3

Course in Asian, African, Latin American, or Middle Eastern history. 3
 (may fulfill upper-level history requirement)

Course on history before 1700, not including HIST 101 3
 (may fulfill upper-level history requirement)

History courses at or above the 300-level. At least one of these courses must be a seminar at the 400-level or above (excluding HIST 464, 491 and 493 and Independent Study) 15

(English courses (minimum of 24 credits required))

ENGL 307	News Writing and Editing	3
----------	--------------------------	---

Nine credits chosen from the following courses: 9

ENGL 308	Reporter's Practicum	
ENGL 309	Feature and Magazine Writing	
ENGL 310	Copy Editing and Layout	
ENGL 407	Advanced Reporting	
ENGL 408	Sports Writing	
ENGL 409	Topics in Journalism	
ENGL 466	Independent Study	

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

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

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization: 1648 to the Present	3
HIST 103	World History I	3
HIST 104	World History II	3
HIST 268	Seminar	3

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, Latin America, or Middle East . . . 6

Course work must include a three credit History seminar at or above the 400 level (excluding HIST 464, 491, 493, and independent study), twelve additional credits at or above the 300 level, and six credits at any level.

ECON 151	Introduction to Microeconomics	3
ECON 152	Introduction to Macroeconomics	3
POSC 150	The American Political System	3
GEOG 120	World Regional Geography	3

Additional credits as follows: 15

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) (minimum grade C-)	3
HIST 492	Integrating Instructional Technology into Social Studies Teaching	1
HIST 493	Seminar: Problems in Teaching History and Social Sciences (spring semester only)	3
EDUC 420	Reading in the Content Areas	1
EDUC 400	Student Teaching (spring semester only)	9
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 teacher competency tests as established by the University Council on Teacher Education and complete a learning portfolio. Students must consult with the teacher education program coordinator (see page 215) 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, HISTORY EDUCATION
CONCENTRATION: AMERICAN HISTORY**

CURRICULUM	CREDITS
------------	---------

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization: 1648 to the Present	3
HIST 268	Seminar	3
Course in Asian, African, Latin American, or Middle Eastern history 3		
History course before 1700, not including HIST 10 3		
Six (6) courses in the field of emphasis, four of which must be history courses at or above the 300-level. With written approval of the advisor, a student may take two of these courses outside the Department of History 18		
History seminar at the 400-level or above 3		
(excluding HIST 464, 491, 493 and Independent Study)		

Course work must include a three credit History seminar at or above the 400 level (excluding HIST 464, 491, 493, and independent study), twelve additional credits at or above the 300 level, and six credits at any level.

ECON 151	Introduction to Microeconomics	3
ECON 152	Introduction to Macroeconomics	3
POSC 150	The American Political System	3
GEOG 120	World Regional Geography	3

Additional credits as follows: 15

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) (minimum grade C-)	3
HIST 492	Integrating Instructional Technology into Social Studies Teaching	1
HIST 493	Seminar: Problems in Teaching History and Social Sciences (spring semester only)	3
EDUC 420	Reading in the Content Areas	1
EDUC 400	Student Teaching (spring semester only)	9
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 teacher competency tests as established by the University Council on Teacher Education and complete a learning portfolio. Students must consult with the teacher education program coordinator (see page 215) 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: HISTORY, HISTORY EDUCATION
CONCENTRATION: EUROPEAN HISTORY**

CURRICULUM	CREDITS
------------	---------

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization: 1648 to the Present	3
HIST 268	Seminar	3
Course in Asian, African, Latin American, or Middle Eastern history 3		
History course before 1700, not including HIST 10 3		
Seven (7) courses in the field of emphasis, four of which must be history courses at or above the 300-level. With written approval of the advisor, a student may take two of these courses outside the Department of History. At least one of these courses has to be on the history of Europe before 1700, not including		
HIST 101	. . . . .	21
History seminar at the 400-level or above 3		
(excluding HIST 464, 491 and 493 and Independent Study)		

Course work must include a three credit History seminar at or above the 400 level (excluding HIST 464, 491, 493, and independent study), twelve additional credits at or above the 300 level, and six credits at any level.

ECON 151	Introduction to Microeconomics	3
ECON 152	Introduction to Macroeconomics	3
POSC 150	The American Political System	3
GEOG 120	World Regional Geography	3

Additional credits as follows: 15

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) (minimum grade C-)	3
HIST 492	Integrating Instructional Technology into Social Studies Teaching	1
HIST 493	Seminar: Problems in Teaching History and Social Sciences (spring semester only)	3
EDUC 420	Reading in the Content Areas	1
EDUC 400	Student Teaching (spring semester only)	9
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 teacher competency tests as established by the University Council on Teacher Education and complete a learning portfolio. Students must consult with the teacher education program coordinator (see page 215) 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: HISTORY, HISTORY EDUCATION
CONCENTRATION: WORLD HISTORY**

CURRICULUM	CREDITS
------------	---------

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization: 1648 to the Present	3
HIST 268	Seminar	3
Course in Asian, African, Latin American, or Middle Eastern history 3		
Seven (7) courses in the field of emphasis, four of which must be history courses at or above the 300-level. With written approval of the advisor, a student may take two of these courses outside the Department of History. At least one of these courses has to be on non-Western history before 1700 21		
History seminar at the 400-level or above 3		
(excluding HIST 464, 491, 493 and Independent Study)		

Course work must include a three credit History seminar at or above the 400 level (excluding HIST 464, 491, 493, and independent study), twelve additional credits at or above the 300 level, and six credits at any level.

ECON 151	Introduction to Microeconomics	3
ECON 152	Introduction to Macroeconomics	3
POSC 150	The American Political System	3
GEOG 120	World Regional Geography	3
Additional credits as follows:		15
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) (minimum grade C-)	3
HIST 492	Integrating Instructional Technology into Social Studies Teaching	1
HIST 493	Seminar: Problems in Teaching History and Social Sciences (spring semester only)	3
EDUC 420	Reading in the Content Areas	1
EDUC 400	Student Teaching (spring semester only)	9
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 teacher competency tests as established by the University Council on Teacher Education and complete a learning portfolio. Students must consult with the teacher education program coordinator (see page 215) 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: HISTORY/CLASSICS, FRENCH, GERMAN,
RUSSIAN, SPANISH**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization: 1648 to the Present	3
HIST 268	Seminar	3
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 (excluding HIST 464, 491 and 493 and Independent Study)		3

One of the following language options:

Classics

Civilization: Two classical civilization (or culture) courses: e.g., FLIT 202 (Biblical and Classical Literature) and FLIT 316 (Mythology) 6

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

French

Civilization:	FREN 325 (French Civilization I), or FREN 326 (French Civilization II) or FREN 453 (French Civilization III)	3
Literature:	FREN 301 (Introduction to French Literature: Prose) and FREN 302 (Introduction to French Literature: Poetry and Theatre)	6
400-level literature course		3
Two courses at the 200, 300, or 400-level		6

German

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

Russian

Civilization:	RUSS 325 (Russian Civilization)	3
Literature:	RUSS 310 (Introduction to Russian Literature I) and RUSS 312 (Introduction to Russian Literature II)	6
400-level literature course		3
Two courses at the 200, 300, or 400-level		6

Spanish:

Students must choose either the Peninsular (325, 301, 302) or the Latin American (326, 303, 304) track.

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

ELECTIVES

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

Honors Degree: An Honors Degree option is also available.

CREDITS TO TOTAL A MINIMUM OF 124

**HONORS BACHELOR OF ARTS:
HISTORY (ALL CONCENTRATIONS);
HISTORY EDUCATION;
HISTORY/FOREIGN LANGUAGE**

To receive the BA with Honors, students must complete the following:

1. All requirements for the BA with a major in History, History Education, or History/Foreign Language.
2. All the University's generic requirements for the Honors Degree (see page 52 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
HIST 102	Western Civilization: 1648 to the Present
HIST 103	World History I
HIST 104	World History II
HIST 205	United States History
HIST 206	United States History
Three HIST courses at or above the 300 level (excluding HIST 464, 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.

ISLAMIC STUDIES

Contemporary events dramatically underscore the profound significance of Islam, and the urgent need for a better understanding of global Islam and the Islamic World. Islam has not only become an important force in the global cultural, political and economic spheres, it has become a crucial aspect of the American and Western experience due primarily to the growth of Muslim communities in the West. The minors in Islamic Studies and Islamic Studies with Language are designed to empower students with knowledge of Islam and the Islamic world. For further information contact Professor Muqtedar Khan at mkhan@udel.edu.

MINOR IN ISLAMIC STUDIES

The Islamic studies minor without language will require a total 18 credits. In order to complete the minor, students will take two core courses for six credits and four additional courses, three of which will be at the 300 level or above. The six courses that will lead to the Islamic Studies minor are:

Core requirements 6
 POSC 201 Introduction to Global Islam
 A second course at the 200-300 level from HIST 381, HIST 377, ARTH 236, or POSC 377

Twelve additional credits 12
 to include at least three 300-level courses. Courses are to be chosen from the following approved list:

ANTH 212 Peoples and Cultures of the Muslim World
 ANTH 313 Immigrant Islam: The Muslim Diaspora to the West
 ANTH 314 Islam and Gender
 ARTH 236 Arts of the Islamic World
 ENGL 382 Multicultural Literature in English (when offered as the Crescent and the Cross: Contemporary Fiction from Arab Nations and American Writers on the Arab World)
 HIST 130 Islamic Near East 600-1500
 HIST 131 Islamic Near East: 1500-Present
 HIST 340 Ancient Near East and Greece
 HIST 377 Radicalism and Revolution: Islamic Movement/Modern Middle
 HIST 378 Nationalism in the Modern 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 the Islamic Middle East
 PHIL 312 Late Medieval Philosophy
 POSC 377 Arab-Israeli Politics
 POSC 410 Islam and Global Affairs
 POSC 430 Intermestic Relations of Islam and America

The designated advisor of the minor will have the authority to make course substitutions for required courses.

The Islamic studies minor with language will require completion of six non-language courses comprising 18 credits, and, additionally, completion of the Arabic language sequence through the 107 level.

Core requirements 6
 POSC/HIST 201 Introduction to Global Islam
 A second course at the 200-300 level from HIST 381, HIST 377, ANTH 212, ARTH 236, or POSC 377

Twelve additional credits 12
 to include at least three 300-level courses. Courses are to be chosen from the following approved list:

ANTH 212 Peoples and Cultures of the Muslim World
 ANTH 313 Immigrant Islam: The Muslim Diaspora to the West
 ANTH 314 Islam and Gender
 ARTH 236 Arts of the Islamic World
 ENGL 382 Multicultural Literature in English (when offered as the Crescent and the Cross: Contemporary Fiction from Arab Nations and American Writers on the Arab World)
 HIST 130 Islamic Near East 600-1500
 HIST 131 Islamic Near East: 1500-Present
 HIST 340 Ancient Near East and Greece
 HIST 377 Radicalism and Revolution: Islamic Movement/Modern Middle
 HIST 378 Nationalism in the Modern 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 the Islamic Middle East
 PHIL 312 Late Medieval Philosophy
 POSC 377 Arab-Israeli Politics
 POSC 410 Islam and Global Affairs
 POSC 430 Intermestic Relations of Islam and America

Arabic language courses 12
 ARAB 105, ARAB 106, and ARAB 107 (student placement in first course determined according to language placement guidelines)

The designated advisor of the minor will have the authority to make course substitutions for required courses.

JEWISH STUDIES

Telephone: (302) 831-3324
 E-mail: dsilver@udel.edu
<http://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 courses 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 Journalism minor is designed to provide a broad, interdisciplinary approach to journalism education. Coursework focuses on print and broadcast media, with attention to web publishing. Students are encouraged to explore coursework outside the traditional boundaries of the English and Communication departments to include study in areas such as economics, political science, international relations, and visual communications.

This minor is open to students majoring in any academic discipline and across all colleges.

Eighteen credits are required for the Journalism minor. Coursework in the minor must include at least two courses outside a student's major field. In order to declare a Journalism minor, students must have taken or be enrolled in JOUR 301. Students must receive a grade of B or better in JOUR 301 or receive permission from program faculty to continue in the minor.

MINOR IN JOURNALISM

JOUR 301 Introduction to Journalism 3

One of the following courses: 3
 ENGL 307 News Writing and Editing
 COMM 329 Broadcast Writing

One of the following courses: 3
 ENGL 308 Reporter's Practicum
 COMM 326 Field Production/Reporting
 Three of the following courses: 9
 COMM 245 Introduction to Mass Media
 ENGL 306 Nonfiction Workshop
 ENGL 309 Feature and Magazine Writing
 ENGL 310 Copy Editing and Page Design
 COMM 345 Media Law
 ENGL 407 Advanced Reporting
 ENGL 408 Sports Reporting
 ENGL 409 Topics in Journalism
 COMM 418 Topics in Mass Communication

ENGL 416 Designing Online Information
 COMM/POSC 425 Advanced Topics in Politics and Broadcast Journalism
 COMM/POSC 340 Politics and the Media
 JOUR 425 Ethics and Issues in Journalism
 COMM 427 Broadcast News
 COMM 364/ENGL 464 Internship
 POSC/COMM 444 Global Agenda
 ECON 100 Economic Issues and Policies
 ECON 151 Introduction to Microeconomics (Prices and Markets)
 Note: Journalism minor candidates may count either ECON 100 or ECON 151 towards the Journalism minor, but not both.
 COMM 301 Introduction to Communication Research Methods

SPAN 455* Selected Authors, Works and Themes
 SPAN 460* Topics: Contemporary Hispanic Literature 1936-Present
 SPAN 462* Topics: Hispanic Short Fiction
 SPAN 464 Contemporary Spanish American Literature by Women
 SPAN 475* Topics: Hispanic Culture and Civilization
 *When topic deals with Latin America

Two additional courses selected from the courses listed above or from the following: 6

ARTH 232 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)
 FREN 459 Negritude, Antillanite, Creolite
 PORT 207 Contemporary Brazil
 PORT 315 Intensive Portuguese for Spanish Speakers
 SPAN 207 Contemporary Latin America I
 WOMS 250 Topics in International Women's Studies: Latin America

LATIN AMERICAN STUDIES

Latin American Advisor: Julio Carrion, 456 Smith Hall
 Telephone: 302-831-1929
 Email: jcarrion@udel.edu
 http://www.udel.edu/LAS
 Faculty Listing: http://www.udel.edu/LAS/lasp-faculty.htm

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 CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

ANTH 375 Peoples and Cultures of Modern Latin America 3
 GEOG 226 Geography of Latin America. 3
 HIST 135 Introduction to Latin American History 3
 POSC 426 Latin American Political Systems 3
 SPAN 326 Latin American Civilization and Culture 3

One of the following six courses: 3

ANTH 251 Ethnic Arts
 ANTH 265 High Civilizations in the Americas
 ANTH 323 Pre-history of South America
 ANTH 337 South American Indians
 ANTH 338 Arts and Crafts of Native South America
 ANTH 380 Peoples and Cultures of Mexico and Central America

One of the following six courses: 3

HIST 331/BAMS 331 History of the Caribbean I
 HIST 332/BAMS 332 History of the Caribbean II
 HIST 349 Modern Hispanic Societies: 1800-present
 HIST 336 Topics in Latin American History
 HIST 430 Twentieth Century Latin American Revolutions
 HIST 477 Studies in Latin American History

One of the following two courses: 3

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

One of the following ten courses: 3

SPAN 303 Survey of Spanish-American Literature I
 SPAN 304 Survey of Spanish-American Literature II
 SPAN 415 Latin American Literature in its Political Context
 SPAN 430 Latin American Novel and Cinema
 SPAN 447 Contemporary Hispanic Fiction by Women

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 Puebla, Mexico 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 BA in Latin American Studies.
2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 52 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 303,304, 326, 415, 430, 464
 ANTH 265, 323, 337, 338, 375, 380
 ARTH 232, 419, 440
 PORT 207, 216
 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 Puebla, Mexico 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
 Telephone: (302) 831-0367
 Email: legal-studies@udel.edu
 http://www.udel.edu/Legal.Studies/

Faculty Listing: http://www.udel.edu/Legal.Studies/faculty.html

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 paralegal training. However, the program is a suitable minor for those who plan to pursue professional training. For information on Pre-Law Advisement, see page 92.

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

CURRICULUM	CREDITS
Core Legal Studies Courses	
LEST 301 Introduction to Legal Studies (same as CRJU 301)	3
or	
LEST 380 Introduction to Law (same as POSC 380)	3
LEST 201 The Law and You	1
LEST 401 Senior Seminar in Legal Studies (or substitute approved by the Director of LEST)	3
Interdisciplinary Courses	
One substantive law course	3 (selected from the list of ten substantive law courses below)
Two electives (selected from the list below)	6
TOTAL CREDITS	16

1. Among the interdisciplinary courses, only **one** course can be required by the students’ major or listed (or cross-listed) in the students’ major department.
2. If students are approved to substitute a course in their own major for LEST 401, then **none** of the interdisciplinary courses may come from the students’ major department.

If a student has more than one major, the two rules above will be enforced for only one of the majors (whichever one the student chooses).

ELECTIVES:

Accounting

- ACCT 350 Business Law I
- ACCT 351 Business Law II
- ACCT 352 Law and Social Issues in Business

Communication

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

Criminal Justice

- CRJU 202 Problems of Criminal Judiciary
- CRJU 203 Problems of Corrections
- CRJU 301 Introduction to Legal Studies
(same as LEST 301)
- CRJU 311 Capital Punishment and the Law
- CRJU 320 Introduction to Criminal Law
- CRJU 324 American Constitutional History
(same as HIST 324)
- CRJU 345 Sociology of Law
(same as SOCI 345)
- CRJU 346 Psychology and the Law
(same as PSYC 346)
(some sections may qualify)
- CRJU 367 Criminal Procedure
- CRJU 375 Criminal Law and Social Policy
- CRJU 425 Corporate Crime
(same as SOCI 428)
- CRJU 428 Punishing Speech
- CRJU 435 Judging the Jury
- CRJU 446** Prisoners and the Law
- CRJU 450 Lawyers and Society
(same as SOCI 456)
- CRJU 456 Criminal Evidence
- CRJU 457 Social Science and the Law
(same as LEST 475)

Economics

- ECON 306 Economic Theory of Politics
(same as POSC 306)
- ECON 360 Government Regulation of Business
- ECON 408 Economics of Law
(same as LEST 408)
- ECON 461 Industrial Organization and Antitrust
- ECON 463 Economics of Regulation

Education

- EDUC 240 Professional Issues: Philosophical and Legal Perspectives

Finance

- FINC 418 Seminar in Corporate Governance

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 678)

Philosophy

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 345	Sociology of Law (same as CRJU 345)
SOCI 367	(some sections may qualify)
SOCI 428	Corporate Crime (same as CRJU 428)
SOCI 456	Lawyers and Society (same as CRJU 456)
SOCI 637**	Law and Society in Historical Perspective
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.

SUBSTANTIVE LAW COURSES:

ACCT 350	Business Law I
ACCT 351	Business Law II
ACCT 352	Law and Social Issues in Business
COMM 345	Legal Issues of the Mass Media
CRJU 320	Introduction to Criminal Law
CRJU 375	Criminal Procedure
POSC 401	Topics in Constitutional Law
POSC 402	Civil Liberties: Individual Freedoms
POSC 403	Civil Liberties: Equal Protection
POSC 405	Constitutional Law of the United States

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 a faculty committee appointed by the Dean of the College of Arts and Sciences, 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 BAL.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 selected 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 Program Director as they work on drawing up their programs. The screening committee requires the applications to carry the signature of three faculty members including the candidate's primary advisor. Proposals should be submitted to the Program Director by October 15 or by March 15. Application forms and further information are available on the web at www.art-sci.udel.edu/bals.

**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 52 of this catalog).
3. The student's BAL.S. advisor will designate Honors Courses that will count as courses in the major.

LINGUISTICS AND COGNITIVE SCIENCE

Telephone: (302) 831-6806
<http://www.ling.udel.edu/ling/>
 Faculty Listing: <http://www.ling.udel.edu/ling/>

The Department of Linguistics and Cognitive Science offers a BS in Cognitive Science and two minors, one in Linguistics and one in Cognitive Science.

As part of the major in Cognitive Science, concentrations are possible in Linguistics and in a variety of areas of Cognitive Science. The department also has concentration templates for students interested in Pre-professional Speech Pathology. Many of the courses offered by the department fulfill the Group A, Group C, and Group D breadth requirement in the College of Arts and Sciences as well as the University's multicultural requirement.

DEGREE: BACHELOR OF SCIENCE
MAJOR: COGNITIVE SCIENCE

The interdisciplinary field of cognitive science studies the human mind viewed as a computational process. It lies at the confluence of computer science, educational and cognitive development, linguistics, neuroscience, neurobiology, philosophy, psychology, and certain areas of mathematics. Cognitive science has arguably been the most important development in the study of human thinking in the past twenty years; its influence can be seen across a wide variety of disciplines, from logic to communication disorders.

As a nascent discipline, cognitive science seeks to model and explain such phenomena as language, reasoning and perception. The goal of cognitive science as a theoretical discipline is to determine those knowledge structures and processes that characterize organisms as biological information processing systems, as well as to explain how these organisms come to possess this knowledge. Applied cognitive science takes the results of this research to such diverse areas as language technology, cognitive approaches to education, human computer interaction etc. The latter field addresses the most effective use of technology by people and includes the study of user interfaces, graphical displays, visualization of data, virtual reality, technology-based education, intelligent agents, and computer-based assistive technology for persons with disabilities. At the University of Delaware the discipline of linguistics plays an especially strong role in cognitive science. This is true because linguists have developed successful models of natural languages in central areas of cognition, and because the Department of Linguistics and Cognitive Science houses the BS in Cognitive Science.

ADMISSION AND RETENTION REQUIREMENTS

It is anticipated that most graduates of the program will seek postgraduate training in order to satisfy their professional aspirations. In order to ensure that students interested in cognitive science, and related fields like linguistics, speech science and speech pathology and other areas as well, will be competitive for entry to the best graduate schools, students will only be formally admitted to the program based on their college GPA. During the freshman year students may declare a Cognitive Science Interest Major, but admission to the program as a Cognitive Science Major requires the completion of at least 30 credits of study. The minimal GPA for admission to the program will be 3.0. Once in the program, students whose current (not cumulative) GPA for required courses and courses with CGSC and LING designations falls below 3.0 will be placed on probation. If the current GPA for required courses and courses with CGSC and LING designations is not raised to 3.0 by the end of the following semester, they will be dropped from the major.

CURRICULUM
CREDITS
DEGREE REQUIREMENTS

Required Courses (25 hours/credits)

All of the following:

CGSC 270	Introduction to Cognitive Science (foundation course)	3
CGSC 314	Brain and Behavior	3
CGSC 485	Seminar in Cognitive Science (senior seminar)	3
LING 101	Introduction to Linguistics	3
PSYC 100	General Psychology	3

and

One of the following:

BISC 104	Principles of Biology with Laboratory	4
or		
BISC 207	Introductory Biology I	4

and

One of the following:

CISC 105	General Computer Science	3
or		
CISC 103	Introduction To Computer Science with Web Applications	3

or

CISC 181	Introduction to Computer Science II	3
One of the following:		
PHIL 205	Logic	3
or		
MATH 201	Introduction to Statistical Methods I	3
or		
MATH 205	Statistical Methods	4
or		
PSYC 209	Measurement and Statistics	3

CONCENTRATION REQUIREMENT

In addition to completing the required core, students will develop, with the aid of a faculty advisor, a concentration program individualized to their interests of at least 18 credit hours. Concentrations may include a focus of linguistics or pre-professional speech pathology and speech science, natural language processing, animal cognition, artificial intelligence, computer modeling of cognition, or psychological models of cognition, among other possibilities.

The faculty advisor must be among the core departmental faculty listed on the departmental website (<http://www.ling.udel.edu/ling>). Further, the concentration program must be proposed by the student, approved by the student's faculty advisor and approved by the Undergraduate Studies Committee of the department. All concentration programs will consist of at least 18 credits drawn from a list of eligible courses which will be maintained on the Department's website. Some concentrations may exceed 18 hours. The list of eligible courses will be updated and posted annually on the Departmental website. Substitute courses may be proposed by the student with the approval of the faculty advisor.

First Year Experience and Discovery Learning

All first-year students in the Cognitive Science Interest major must complete a first year experience (FYE). The available FYE options are posted on the departmental website (<http://www.ling.udel.edu/ling>).

All students are required to participate in a discovery or experiential learning program. The available discovery or experiential learning programs are posted on the departmental website (<http://www.ling.udel.edu/ling>). The Department currently offers opportunities for study abroad and internship possibilities which meet this requirement.

Capstone Course

Senior majors are brought together for a seminar on topics in cognitive science: CGSC 485 Seminar in Cognitive Science. The course requires participants to engage in a research project that demonstrates grasp of the issues in the field as a whole and in their chosen focus. The research reported on may be collaborative research with a member of the faculty of the program or research conducted in a laboratory directed by a member of the cognitive science faculty. This work may lead to an Honors Thesis for qualified students.

University and College Requirements

In order to receive the degree of BS in Cognitive Science all students must meet the University requirements for a bachelor's degree as specified in the University Catalog. Students are also required to meet the skill requirements of the College of Arts and Sciences as specified in the University Catalog.

College Breadth Requirements

Students must meet the following breadth requirements:

Group A	Analysis and appreciation of the creative arts and humanities. Nine credits of courses representing at least two departments or appropriate instructional units.	9
Group B	The study of culture and institutions over time. Nine credits of courses representing at least two departments or appropriate instructional units.	9
Group C	Empirically based study of human beings and their environment. Nine credits of	9

courses representing at least two departments or appropriate instructional units.

Group D **10**
 The study of natural phenomena through experiment or analysis. Ten 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.

REQUIREMENTS FOR HONORS BS IN COGNITIVE SCIENCE

The recipient must complete:

1. All requirements for the Bachelor of Science degree in Cognitive Science:
 - A cumulative GPA of at least 3.400 at the time of graduation
 - At least 30 credits earned in Honors courses
 - At least 12 credits in the major department or in courses in collateral disciplines specifically required for the major;
 - At least 12 credits in 300-level courses or higher, not including the first-year interdisciplinary Honors colloquium;
 - Three credits in an Honors Degree seminar or Honors capstone course or comparable senior experience approved by the major and the Honors Program, to be completed in one of the last two semesters of the student's degree program.
2. All of the University's generic requirements for the Honors Baccalaureate degree.

COMBINED BS AND M.A. OPTION

Qualified undergraduate students in the BS in Cognitive Science as well as students completing a Bachelors degree in related fields like Anthropology, Computer and Information Science, Philosophy and Psychology (and other fields by application) may apply for the Combined BS and M.A. option, which combines the requirements of the undergraduate and master's degree programs in Cognitive Science and Cognitive Science and Linguistics. Whereas the traditional programs for the BS and M.A. degrees in Cognitive Science, and Linguistics and Cognitive Science involve 4 years of undergraduate work and 2 years of graduate work, the Combined BS and M.A. option enables students to earn both degrees in a 5-year period. Students who complete the Combined BS and M.A. program will graduate with both a Bachelor of Science degree in Cognitive Science and a Master of Arts degree in Linguistics and Cognitive Science. Students who are candidates for the Combined BS and M.A. option, and who complete the requirements for the BS but fail to complete the additional M.A. requirements, will receive the BS degree.

A. Admission into the Combined BS and M.A. Program

Students may apply for admission to the Combined BS and M.A. program at the end of the sophomore year. The application process requires submission of a completed graduate application form for review by the Departmental Graduate Studies Committee. Initial admission will be based upon the student's ability to meet the following recommended entrance criteria:

- Combined mathematics and verbal SAT scores of at least 1200
- An undergraduate GPA of at least 3.25
- Completion of all core courses for the BS in Cognitive Science other than CGSC 485
- Submission of an in-person writing sample, based on work completed in a Cognitive Science course

Admission is competitive. Meeting the minimal requirements for admission does not guarantee admission nor does the failure to meet a requirement result in an automatic rejection. The GRE is not required for admission to the Combined BS and M.A. program by UD undergraduates.

B. Maintaining Status within the Program

Upon admission into the program and prior to the start of the junior year of study, the student will meet with his graduate advisor and submit a planned program of study, including all elective courses, to the Graduate Studies Committee. Planned programs of study are due by the end of fall semester of the student's junior year.

Continuation in the Combined BS and M.A. program is contingent upon maintaining a cumulative GPA of at least 3.25 in undergraduate courses with CGSC and LING designations and in graduate coursework. Satisfactory progress includes following the prescribed program of study.

Each student's progress and GPA will be evaluated at the end of each academic year by the student's advisor and the Graduate Studies Committee. Students who fail to meet the minimum GPA requirements or fail to show progress toward the degree will be dropped from the Combined BS and M.A. program. They may, however, continue in the undergraduate major unless their undergraduate progress is unsatisfactory according to the rules in effect for the BS program.

C. Degree Requirements for the Master of Arts in Linguistics and Cognitive Science and the BS in Cognitive Science

The graduate level course requirements for students in the Combined BS and M.A. option are the same as those for the M.A. in Linguistics and Cognitive Science. The course requirements for the degree include 30 credit hours planned in consultation with the student's advisor and the Director of Graduate Studies, which must include at least 21 credit hours in the Linguistics Department and at least one 800-level seminar. The M.A. in Linguistics and Cognitive Science is a flexible program of study that provides training in both Linguistics and Cognitive Science. Separate tracks are provided for students whose emphasis is clearly in Cognitive Science or in Linguistics. In addition, students may propose a program of study that combines elements of the Linguistics and Cognitive Science tracks. See the Department's Graduate Policy Statement for additional information. Students in the Combined BS and M.A. option must fulfill all graduate and undergraduate course requirements for both the M.A. and their undergraduate degree.

D. Course Overlap

In the event that a student in the Combined BS and M.A. option completes a required graduate course as an undergraduate, and elects to count that course toward the bachelors degree, he will be required to substitute another graduate course, the choice requiring approval of the Director of Graduate Studies. When a student completes a 400-level undergraduate course that has content very similar to that of a parallel 600-level graduate course, he must petition the Director of Graduate Studies to substitute another graduate course for the 600-level course in question.

E. Revisions to Planned Program of Study in Combined BS and M.A. Option

Students who wish to make changes to their program of study must first obtain permission from their advisor. The advisor must then make a written request to the Graduate Studies Committee to revise the program of study.

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 403 Introduction to Phonology	
LING 404 Structure of Language	
LING 418 Meaning and Language Use	
LING 477 Structure of English	
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

Cognitive Science studies the computational and representational structure of the mind by combining linguistics, philosophy, anthropology, 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 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 (restriction: programming experience) (coreq: MATH 115, MATH 117, MATH 221 or MATH 241)	

C. One of the following: **3**

LING 404 Structure of Language	
LING 418 Meaning and Language Use (prereq: LING 101)	
CGSC 340 Cognition (prereq: PSYC 309)	
PHIL 205 Logic	
ANTH 205 Anthropology and Human Nature	

D. One of the following: 3

PSYC 310	Sensation & Perception (prereq: PSYC 309)
CGSC 314	Brain & Behavior
CISC 220	Data Structures (prereq: CISC 181)
CGSC 681	Artificial Intelligence (prereq: CISC 220 & 310)
EDUC 462	Language Acquisition
LING 609	Syntax I
PHIL 330	Philosophy of the Mind
ANTH 300	Primatology

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 should major in Cognitive Science and minor in Psychology. This allows them to 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. A model concentration for students interested in Pre-Professional Speech Pathology is provided at (<http://www.ling.udel.edu/ling>).

MATERIAL CULTURE STUDIES

Telephone: (302) 831-8788
www.udel.edu/materialculture
Faculty Listing: <http://materialculture.udel.edu/faculty/faculty.html>

The Center for Material Culture Studies offers an interdisciplinary undergraduate minor that engages students in understanding the diversity of cultures through the things and places people create. Courses in the minor help students gain new perspective on objects and sites, from the intimate environments of the home to the historical development of regional landscapes. The minor draws on the University's rich on-campus resources in material culture studies, including the University Museums, the Paul R. Jones Collection, the Center for Historic Architecture and Design, and the Museum Studies Program, and its long-standing affiliations with such outstanding cultural institutions in the region as the Winterthur Museum and Country Estate and the Hagley Museum and Library. Students in the minor are encouraged, but not required, to complete an internship that would enhance their exposure to behind-the-scenes work in cultural institutions such as museums, historical societies, and historic preservation agencies.

MINOR IN MATERIAL CULTURE STUDIES

The minor in 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 material culture studies. All three additional courses must be selected from outside the requirements of the student's major and outside his or her other minors. All courses included within the minor must be completed with a grade of C- or above.

Core Courses		Credits
ANTH/MCST/		
HIST 216	Introduction to Material Culture Studies	3
MCST 402	Research and Writing Seminar	3
	(prerequisite: MCST 216)	
MCST	Internship or independent study.	3
Area Courses.		9

An additional three courses (9 credits) to be chosen in consultation with the student's minor advisor from recommended offerings in Material Culture Studies. 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 programs/departments.

MATHEMATICAL SCIENCES

Telephone: (302) 831-2653
<http://www.math.udel.edu/>
Faculty Listing: <http://www.math.udel.edu/people/people.html>

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 BA and BS major programs in Mathematics Education for those students preparing for careers teaching secondary school mathematics. A minor in mathematics is also available. The Department also participates in a BS degree program in Mathematics and Economics and a BS degree in Quantitative Biology (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 has not successfully completed a required Mathematical Science course by the beginning of the third semester or 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 CREDITS

See page 90 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 (or other approved second writing course)	3
CISC 181 and CISC 220	Introduction to Computer Science II Data Structures	3 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 Baccalaureate degree (see page 52 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 CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
First Year Experience	(see page 68)	0-4
Discovery Learning Experience	(see page 68)	3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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.

ENGL 312	Written Communications in Business	3
or		
ENGL 410	Technical Writing	

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 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 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	

Part C

Fifteen additional credits in mathematics or in related disciplines at the 300 level or above. 15

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
 (Courses designed for non-majors in a discipline are not appropriate.)

CISC 181	Introduction to Computer Science II	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 52 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**

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

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

First Year Experience (see page 68) 0-4

Discovery Learning Experience (see page 68). 3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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 pages 95-99)

Group A 9
Group B 9
Group C 9
Group D 10

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 245 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 105 General Computer Science

or
CISC 181 Introduction to Computer Science II

PHYS 207 Introductory Physics I 4

MATH 279 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

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 page 215) 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 52 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: MATHEMATICS EDUCATION**

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

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

First Year Experience (see page 68) 0-4

Discovery Learning Experience (see page 68). 3

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-) 3

Second writing course taken after completion of 60 credit

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 this requirement in that language by taking an exemption examination.

BREADTH REQUIREMENTS

Eighteen credits from Groups A, B and C with a minimum of six credits from each group.

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.

Mathematics Section

MATH 210 Discrete Mathematics I 3
MATH 242 Analytic Geometry and Calculus B 4

MATH 243	Analytic Geometry and Calculus C	4
MATH 245	An Introduction to Proof	3
MATH 302	Ordinary Differential Equations	3
MATH 308	Historical Developments 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	3
MATH 540	College Geometry: A Historical Approach	3
	One of the following modeling classes	3
MATH 512	Contemporary Applications of Mathematics	
MATH 518	Mathematical Models and Applications	

	One course from the following list	3
MATH 315	Discrete Mathematics II	
MATH 401	Introduction to Real Analysis	
MATH 503	Advanced Calculus for Applications	
MATH 508	Introduction to Complex Variables and Applications	

COMPUTER AND INFORMATION SCIENCES

	Either CISC 105 (for those with no previous equivalent experience) or	
CISC 181	. . . . .	3

SCIENCE

	A two-semester, 8 credit sequence of laboratory science (courses designed for non-majors in a discipline are not appropriate, except for CHEM 103 -104)	8
--	---	---

PROFESSIONAL DEVELOPMENT

MATH 279	Problem Solving Strategies	1
MATH 379	Problem Solving Strategies	1
MATH 380	Approaches to Teaching Mathematics	3
MATH 382	Student Teaching Seminar in 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

	Nine additional credits in mathematics or in related disciplines at the 300 level or above	9
--	---	---

Courses not approved for math majors cannot be counted towards these 9 additional credits. Non mathematics courses can be in CISC, ECON, PHYS and STAT from an approved list maintained by the Department of Mathematical Sciences.

CREDITS TO TOTAL A MINIMUM OF 124

MINOR IN MATHEMATICS

A student seeking a minor in mathematics must obtain permission from the chairperson or his designee in the Department of Mathematical Sciences. Course requirements consist of a total of 18 credits in MATH courses offered by the Department of Mathematical Sciences, to include 9 credits above MATH 302. In order to count toward the minor, a grade of C- or better is required. MATH 305, 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. 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

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
	First Year Experience (see page 68)	0-4
	Discovery Learning Experience (see page 68)	3
	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-)	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.	
ENGL 312	Written Communications in Business (or other approved second writing course)	3

BREADTH REQUIREMENTS (see pages 95-99)

	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.	
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

MATH 242	Analytic Geometry and Calculus B	4
MATH 243	Analytic Geometry and Calculus C	4
MATH 268	Perspectives on Mathematics	1
MATH 302	Ordinary Differential Equations	3
MATH 349	Elementary Linear Algebra	3
MATH 529	Fundamentals of Optimization	3
MATH 530	Applications of Mathematics in Economics	3

	One of the following	3
MATH 210	Discrete Mathematics I or	
MATH 230	Finite Mathematics with Applications	

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

	One of the following three courses	3
MATH 426	Numerical Analysis and Algorithmic Computations	
MATH 503	Advanced Calculus for Applications	3
MATH 512	Contemporary Application of Mathematics and Modeling	

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

ECON 301	Quantitative Microeconomic Theory	3
	(prerequisites: ECON 151 and MATH 241)	
ECON 303	Intermediate Macroeconomic Theory	3
	(prerequisites: ECON 151 and ECON 301)	
ECON 422	Econometric Methods and Models I	3
ECON 423	Econometric Methods and Models II	3
	One of the following	3
ECON 406	Markets: Information and Uncertainty	
ECON 426	Mathematical Economic Analysis	
	One of the following	3
ECON 302	Banking and Monetary Policy	
ECON 430	Advanced Macroeconomic Theory	
ECON 443	International Monetary Economics	
ECON 471	Futures and Options Markets	
FINC 311	Principles of Finance	
	One of the following Computer Science courses	3
CISC 105	General Computer Science	
or		
CISC 181	Introduction to Computer Science II	

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 52 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.

DEGREE: BACHELOR OF SCIENCE MAJOR: QUANTITATIVE BIOLOGY

The College of Arts and Sciences administers an interdisciplinary major program in Quantitative Biology leading to the Bachelor of Science degree. The major provides a strong background in mathematics, biology, chemistry and physics appropriate for students who wish to pursue a career or graduate studies in biomedical and life sciences.

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing	3
	(minimum grade C-)	
	First Year Experience	0-4

	Discovery Learning Experience	3
	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-)	3
	Second writing course taken after completion of 60 credit hours	

BREADTH REQUIREMENTS

Eighteen credits from Groups A, B and C with a minimum of six credits from each group. One of the courses should be in the area of Bioethics

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.

Biology

BISC 207	Introduction to Biology I	4
BISC 208	Introduction to Biology II	4
	Three of the following three-credit courses	9
BISC 302	General Ecology	
BISC 305	Cell Physiology	
BISC 306	General Physiology	
BISC 401	Molecular Biology of the Cell	
BISC 403	Genetic and Evolutionary Biology	
	One of the following two-credit laboratory classes	2
BISC 312	General Ecology Laboratory	
BISC 315	Experimental Cell Biology	
BISC 316	Experimental Physiology	
BISC 411	Experimental Molecular Biology	
BISC 413	Advanced Genetics Laboratory	
	Either CISC 105 or CISC 106 (for those with no previous equivalent experience), or CISC 181	3

Chemistry

One of the following options (A, B or C) 8-12

Option A

CHEM 103	General Chemistry	4
CHEM 104	General Chemistry	4

Option B

CHEM 111	General Chemistry	3
CHEM 112	General Chemistry	3
CHEM 119	Quantitative Chemistry I	3
CHEM 120	Quantitative Chemistry II	3

Option C

CHEM 111	General Chemistry	3
CHEM 112	General Chemistry	3
CHEM 220	Quantitative Analysis	3
CHEM 221	Quantitative Laboratory	1

CHEM 321	Organic Chemistry	4
CHEM 322	Organic Chemistry	4
CHEM 527	Introductory Biochemistry	3

Mathematics

MATH 210	Discrete Mathematics I	3
MATH 241	Analytic Geometry and Calculus A	4
MATH 242	Analytic Geometry and Calculus B	4
MATH 243	Analytic Geometry and Calculus C	4
MATH 302	Ordinary Differential Equations	3
MATH 349	Elementary Linear Algebra	3
MATH 350	Probability Theory and Simulation Methods	3
MATH 426	Introduction to Numerical Analysis and Algorithmic Computation	3
MATH 450	Mathematical Statistics	3
MATH 460	Introduction to Systems Biology	3
MATH 535	Introduction to Partial Differential Equations	3

Physics

PHYS 207	Fundamentals of Physics I	4
PHYS 208	Fundamentals of Physics II	4

OTHER REQUIREMENTS

	Two one-credit integrative seminars	2
MATH 260	Integrative Seminar	
	Three integrative or technical electives, 6 credits of which should be integrative electives from a list maintained by the Department of Mathematical Sciences. In addition, undergraduate research is strongly recommended.	9

CREDITS TO TOTAL A MINIMUM OF 124

MEDICAL HUMANITIES

Telephone: (302) 831-2359

The undergraduate minor in medical humanities explores how different kinds of humanistic inquiry inform and are informed by the science and practice of medicine.

MINOR IN MEDICAL HUMANITIES

Grounding 3-4
 BISC 103 or 104 Principles of Biology
 BISC 106 Elementary Human Physiology
 BISC 276 Human Physiology
 BISC 306 General Physiology
 HESC 220 Anatomy and Physiology

Humanistic Approaches 12
 One three credit class from each of the following three disciplinary groups (9 credits), plus one additional class from any one of the groups (3 credits).

Ethics and Policy
 PHIL 241 Ethical Issues in Health Care
 PHIL 313 Killing and Letting Die
 PHIL 444 Medical Ethics

Art, Literature, and History
 HIST 382 History of Western Medicine

Human Sciences
 POSC/SOCI 343 Society Politics and Healthcare
 SOCI 311 Sociology of Healthcare
 WOMS 389 Topics: Women and Health Issues

Capstone 1 Credit Independent Study (pass/fail)
 A short (1000 word) discussion of how humanistic studies can inform and improve the practice of healthcare, with specific reference to the content of one or more classes taken (must include specific reference to any classes substituted for a listed class). Restriction: must be in senior year or have completed 12 units of the minor to enroll.

Class substitutions: Relevant alternative classes, or 3 credit independent study, may be substituted within each group if approved by the minor's faculty advisor.

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)
 ARTH210 Later Medieval Art (1000-14000 AD)
 ARTH 213 Art of the Northern Renaissance
 ARTH 217 Early Renaissance Art
 ARTH 220 Italian Renaissance Architecture
 ARTH 406/606 Seminar in Medieval Art
 ARTH 408/608 Seminar in Northern Renaissance Art
 ARTH 413 Seminar in Italian Renaissance Art
 CMLT 320 Varying Authors and Genres (on medieval topics)
 CMLT 321 Medieval Literature and Culture
 ENGL 321 Medieval Literature and Culture
 ENGL 322 Chaucer
 FLIT 320 Varying Authors and Genres (on medieval topics)
 FREN 423/623 French Medieval Literature
 HIST 241 History of Christianity to 1300
 HIST 245 Medieval Kings and Queens
 HIST 342 Barbarian Europe
 HIST 343 Medieval Europe 1050-1350
 HIST 344 Renaissance Europe
 HIST 471/671 Seminar in Medieval History
 MUSC 311 Music History: 400 through 1600
 PHIL 311 Early Medieval Philosophy
 PHIL 312 Late Medieval Philosophy
 SPAN 435/635 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
<http://www.udel.edu/armyrotc/>

The mission of the Military Science – Army ROTC program 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, seniors and graduate students 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 course at Fort Lewis in the State of Washington. Students are paid and all travel, medical needs, lodging, and meals are provided while attending the Leadership Development and Advanced Course.

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) plus a \$1,200 book allowance and a tiered stipend which starts at \$3,000 annually. All these benefits may be combined with other scholarship benefits. Typically, 70% 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
 http://www.music.udel.edu/
 Faculty Listing: http://www.music.udel.edu/faculty/directory/

DEPARTMENT OVERVIEW

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.

MAJORS & MINORS

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.

DEPARTMENT POLICIES

Entering majors are expected to demonstrate a high level of musical achievement and aptitude. Placement auditions and musicality tests for those students who wish to enter in the fall semester should be completed by June 1 of the preceding spring and must be completed before acceptance is granted. *Acceptance to the University does not indicate acceptance as a music major.* Students who transfer from accredited colleges are placed in appropriate levels of music theory, literature, and applied music according to the results of tests given at the time of transfer.

Part-time music majors must have the permission of the department chair to enroll for private study.

Credit for large ensembles, as required by various curricula, is given only for participation during the fall and spring semesters. The Department of Music requires the successful completion of a Sophomore Review before continuation as a music major. Detailed information about these and other aspects of curricular policy is published in the Department's *Student Handbook*, available online at www.music.udel.edu/current/.

OPPORTUNITIES FOR NON-MAJORS

For the general University undergraduate, the department offers courses in the fundamentals of music, music literature, and class study of voice, guitar and organ. All courses in the department are available to any University student who meets course and department prerequisites. Some music courses may be taken as partial fulfillment of breadth requirements in the College of Arts and Sciences. Private study is also available to freshmen in the University Honors Program

and to other non-majors, on a space-available basis, through the Music Merit Program. Auditions for these programs are held on the Monday before the first day of class of the academic year by arrangement with the department office. A variety of performing organizations are available to all University students: marching band, wind and jazz ensembles, orchestra, choral groups, the early music ensemble, opera workshop, steel band, and various chamber ensembles.

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

DEGREE: BACHELOR OF ARTS MAJOR: MUSIC

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

No more than 45 credits of Music courses may count toward the degree.

Applied Music

MUSC 100	Recital Attendance (four semesters required)	0
MUSC 153	Private Study: BA/Minor	2
MUSC 154	Private Study: BA/Minor	2
MUSC 175	Class Piano: Elementary I	1
MUSC 253	Private Study: BA/Minor	2
MUSC 254	Private Study: BA/Minor	2

Theory

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

Ensemble

Four Semesters		4
Students must consult with the Department for appropriate ensemble placement. Students must be enrolled in an appropriate ensemble during all semesters in which they are enrolled in Private Study.		

Literature

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

ELECTIVES

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

Grade of C- or better required in all courses in major.

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS MAJOR: MUSIC CONCENTRATION: MUSIC MANAGEMENT STUDIES

CURRICULUM CREDITS

See page 90 for University and College Requirements.

MAJOR REQUIREMENTS

No more than 57 credits of Music courses may count toward the degree.

Applied Music

MUSC 153	Private Study: BA/Minor	2
MUSC 154	Private Study: BA/Minor	2
MUSC 175	Class Piano: Elementary I	1
MUSC 253	Private Study: BA/Minor	2
MUSC 254	Private Study: BA/Minor	2

Theory

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

Ensemble

Four semesters 4
 Students must consult with the Department for appropriate ensemble placement. Students must be enrolled in an appropriate ensemble during all semesters in which they are enrolled in Private Study.

Literature

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

Music Management

MUSC 389 Elements of Music Management 3
 MUSC 309 Patterns of Patronage 3
 MUSC 464 Internship 1-3
 MUSC 488 Principles of Music Industry Practice 3

ELECTIVES

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

Grade of C- or better required in all courses in major.

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 University Advisement Center.

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing
 (minimum grade C-) 3
 First Year Experience (see page 68) 0-4
 Discovery Learning Experience (see page 68) 3
 Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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, pages 93-95.)

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).

English literature course (200-level – Group A or B) 3
 HIST 101 Western Civilization to 1648 3
 HIST 102 Western Civilization: 1648 to the Present 3

Foreign Language
 Two semesters of the same modern foreign language 8

BREADTH REQUIREMENTS (See pages 95-99)

Group A 6
 Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.)
 Group B 15
 The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313, HIST 101, and 102.)
 Group C 9
 Empirically based study of human beings and their environment. Nine credits representing at least two areas. (MUSC 309 is recommended for partial fulfillment of this requirement.)
 Group D 6
 The study of natural phenomena through experiment and analysis.

MAJOR REQUIREMENTS

Applied Music

MUSC 100 Recital Attendance (six semesters required) 0
 MUSC 151 Private Study 2
 MUSC 152 Private Study 2
 MUSC 251 Private Study 2
 MUSC 252 Private Study 2
 MUSC 357 Advanced Private Study 3
 MUSC 358 Advanced Private Study 3
 MUSC 457 Advanced Private Study 4
 MUSC 458 Advanced Private Study 4
 MUSC 175/176 Class Piano: Elementary I and II 2
 MUSC 301 Junior Recital 0
 MUSC 401 Senior Recital 0

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

Guitarists must complete the following:

MUSC 321 Ensemble: Guitar 8
 Two semesters of any departmental ensemble 2

Literature

MUSC 211 Introduction to Music History 3
 MUSC 311 Music History: 400-1600 3
 MUSC 312 Music History: 1600-1827 3
 MUSC 313 Music History: 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.

Grade of C- or better required in all courses in major.

CREDITS TO TOTAL A MINIMUM OF 125

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

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing
 (minimum grade C-) 3
 First Year Experience (see page 68) 0-4
 Discovery Learning Experience (see page 68) 3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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, pages 93-95.)

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).

English literature course (200-level – Group A or B) 3
HIST 101 Western Civilization to 1648 3
HIST 102 Western Civilization: 1648 to the Present. 3

Foreign Language
Two semesters of the same modern foreign language. 8

BREADTH REQUIREMENTS (See pages 95-99)

Group A 6
Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.)
Group B 15
The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313, HIST 101, and 102.)
Group C 9
Empirically based study of human beings and their environment. Nine credits representing at least two areas. (MUSC 309 is recommended for partial fulfillment of this requirement.)
Group D 6
The study of natural phenomena through experiment and analysis.

MAJOR REQUIREMENTS

Applied Music

MUSC 100 Recital Attendance (six semesters required). 0
MUSC 151 Private Study. 2
MUSC 152 Private Study. 2
MUSC 251 Private Study. 2
MUSC 252 Private Study. 2
MUSC 357 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 155 Private Study (Harpisichord or Organ)
or
MUSC 179 Class Organ 1
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) 4
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
or
MUSC 405 Symphonic Literature 3

Music Electives

Excludes private study on primary instrument. 8
May include two credits of ensemble.

Grade of C- or better required in all courses in major.

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
First Year Experience (see page 68) 0-4
Discovery Learning Experience (see page 68). 3

Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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, pages 93-95.)

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).

HIST 102 Western Civilization: 1648 to the Present. 3
Languages courses (French, German and Italian) 24
THEA 226 Acting I 3

BREADTH REQUIREMENTS (See pages 95-99)

Group A 6
Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.)
Group B 12
The study of culture and institutions over time. Twelve credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313 and HIST 102.)
Group C 6
Empirically based study of human beings and their environment. Six credits representing at least two areas. (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	2
MUSC 252	Private Study	2
MUSC 357	Advanced Private Study	3
MUSC 358	Advanced Private Study	3
MUSC 457	Advanced Private Study	4
MUSC 458	Advanced Private Study	4
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 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 335	Basic Conducting	2

Ensemble: One of the following (any 8 semesters) 8

- 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

Related Music Studies

MUSC 171	Diction: English and Italian	1
MUSC 271	Diction: German	1
MUSC 272	Diction: French	1
MUSC 480	Vocal Pedagogy	3
MUSC 489	Opera Workshop	1
Two of the following courses:		
MUSC 426	German Lieder	2
MUSC 427	French Art Song	2
MUSC 428	Twentieth-Century Art Song	2

Music Electives

Six credits from the following: 6	
MUSC 103	Introduction to Italian Opera
MUSC 104	Introduction to Opera
MUSC 395	Form Analysis
MUSC 407	Contemporary Music Literature
or one of the following courses not taken as a Related Music Studies course:	
MUSC 426	German Lieder
MUSC 427	French Art Song
MUSC 428	Twentieth-Century Art Song

Grade of C- or better required in all courses in major.

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 Advisement Center.

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
First Year Experience (see page 68)		0-4
Discovery Learning Experience (see page 68)		3
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related courses content (see pages 69-71)		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, pages 93-95.)

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 pages 95-99)

- Group A 9
 Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas. (This requirement is partially satisfied by MUSC 195 and 196.)
- Group B 9
 The study of culture and institutions over time. (MUSC 311, 312, and 313 satisfy this requirement.)
- Group C 9
 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 4
 The study of natural phenomena through experiment and analysis. One science course with an associated laboratory.

MAJOR REQUIREMENTS

Applied Music

MUSC 100	Recital Attendance (six semesters required)	0
MUSC 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 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
MUED 279	Elementary General Music Methods and Materials	3
MUED 337	Instrumental Conducting	2
MUED 379	Music in the Elementary and Junior High (or Middle) School.	3
MUED 479	Secondary Music Materials and Approaches	3

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

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 the Praxis II exam in order to enroll in student teaching (EDUC 400). Students should consult the teacher education program coordinator (see page 215) 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: PIANO

CURRICULUM	CREDITS
------------	---------

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
First Year Experience	(see page 68)	0-4
Discovery Learning Experience	(see page 68).	3
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content	(see pages 69-71)	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, pages 93-95.)

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 pages 95-99)

Group A	9
Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas. (This requirement is partially satisfied by MUSC 195 and 196.)	
Group B	9
The study of culture and institutions over time. (MUSC 311, 312, and 313 satisfy this requirement.)	
Group C	9
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 4
 The study of natural phenomena through experiment and analysis. One science course with an associated laboratory.

MAJOR REQUIREMENTS

Applied Music

MUSC 100	Recital Attendance (six semesters required)	0
MUSC 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)	4
MUSC 480	Vocal Pedagogy	3
MUSC 171	Diction: English and Italian	1
MUSC 271	Diction: German	1
MUSC 272	Diction: French	1
MUSC 301	Junior Recital	0

Theory

MUSC 185/186	Ear Training and Sight Singing I and II	4
MUSC 285/286	Advanced Ear Training and Sight Singing I and II	4
MUSC 195/196	Harmony I and II	6
MUSC 295/296	Advanced Harmony I and II	6
MUSC 407	Contemporary Music Literature	3
or		
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
or		
MUSC 217	Woodwind Instruments Class I	

Music Methods

MUED 179	Freshman Seminar in Music Education	1
MUSC 287	Music Technology	3
MUSC 335	Basic Conducting	2
MUED 279	Elementary General Music Methods and Materials	3
MUED 336	Choral Conducting	2
MUED 378	Secondary Music Methods and Materials	3
MUED 478	Secondary Music Materials and Approaches: Choral	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 400	Student Teaching	9

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 the Praxis II exam in order to enroll in student teaching (EDUC 400). Students should consult the teacher education program coordinator (see page 215) 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 CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
First Year Experience (see page 68)		0-4
Discovery Learning Experience (see page 68)		3
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71)		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, pages 93-95.)	
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 pages 95-99)

Group A	9
Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas. (This requirement is partially satisfied by MUSC 195 and 196.)	
Group B	9
The study of culture and institutions over time. (MUSC 311, 312, and 313 satisfy this requirement.)	
Group C	9
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.)	
Group D	4
The study of natural phenomena through experiment and analysis. One science course with an associated laboratory.	

MAJOR REQUIREMENTS

Applied Music

MUSC 100	Recital Attendance (six semesters required)	0
MUSC 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 175	Class Piano: Elementary I	1
MUSC 176	Class Piano: Elementary II	1
MUSC 275	Class Piano: Intermediate I	1
MUSC 276	Class Piano: Intermediate II	1
MUSC 171	Diction: English and Italian	1
MUSC 271	Diction: German	1
MUSC 272	Diction: French	1
MUSC 480	Vocal Pedagogy	3
MUSC 301	Junior Recital	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 407	Contemporary Music Literature	3
or		
MUSC 431	Orchestration	2

Ensemble: One of the following (any 7 semesters)

MUSC 108	University Singers	7
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
or		
MUSC 217	Woodwind Instruments Class I	

Music Methods

MUED 179	Freshman Seminar in Music Education	1
MUSC 287	Music Technology	3
MUSC 335	Basic Conducting	2
MUED 279	Elementary General Music Methods and Materials	3
MUED 336	Choral Conducting	2
MUED 378	Secondary General Music Methods and Materials	3
MUED 479	Secondary Music Materials and Approaches: Choral	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 400	Student Teaching	9

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 the Praxis II exam in order to enroll in student teaching (EDUC 400). Students should consult the teacher education program coordinator (see page 215) 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
First Year Experience (see page 68)		0-4
Discovery Learning Experience (see page 68)		3
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71)		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, pages 93-95.)	
Mathematics: One of the following	0-4

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

Modern Languages and History:

Twelve credits in one of the following:

French, German, or Italian	12
HIST 101 Western Civilization to 1648	3
HIST 102 Western Civilization 1648 to the Present	3

BREADTH REQUIREMENTS (See pages 95-99)

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

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

Group B 15
The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313, HIST 101, and 102.)

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

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 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 287	Music Technology	3
MUSC 431	Orchestration	2
MUSC 392	Contrapuntal Writing	2
MUSC 393	Keyboard Harmony I	2
MUSC 395	Form Analysis	3
MUSC 484	Recording Techniques	3

One of the following concentrations (Theory or Composition): 13

Theory Concentration

MUSC 298	Beginning Composition (2 semesters)	
MUSC 419	Music Theory Research	
MUSC 421	Special Projects in Music Theory	

Music Electives (Applied study is recommended)

Composition Concentration

MUSC 298	Beginning Composition (4 semesters)	
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

Grade of C- or better required in all courses in major.

CREDITS TO TOTAL A MINIMUM OF 128

HONORS BACHELOR OF ARTS: MUSIC

The recipient must complete:

1. All requirements for the Bachelor of Arts in Music
2. All the University's generic requirements for the Honors Degree (see page 52 of this catalog).

HONORS BACHELOR OF MUSIC (All Majors):

Requirements for the Honors Bachelor of Music (see page 52 for general requirements for honors degree);

COURSEWORK:

A total of 30 hours of honors credit must be earned. These credits must include 12 credits in music and 12 credits at the 300 level or higher.

The following music courses are regularly offered with honors sections:

MUSC 195	Harmony I (Fall)
MUSC 295	Advanced Harmony I (Fall)
MUSC 311	Music History, 400-1600 (Spring)
MUSC 312	Music History, 1600-1827 (Fall)

In addition, the following courses if taken for graduate credit, will qualify for honors credit:

MUSC 403/603	Chamber Music Literature (Spring)
MUSC 405/605	Symphonic Literature (Spring)
MUSC 407/607	Contemporary Music Literature (Fall)
MUSC 426/608	German Lieder (Spring)
MUSC 427/608	French Arts Song (Spring)
MUSC 428/608	Twentieth Century Art Song (Spring)

CAPSTONE PROJECT:

All students must take an approved capstone course such as UNIV 401-402, UNIV 490, or a capstone in a second major. Any capstone course must be taken for a grade and for at least three credits. Students may also take the following options within the music curriculum:

MUSIC EDUCATION:

Music Education majors may take UNIV 468 (3 credits, graded) in the semester of their student teaching, concentrating on a project that will be incorporated into their Student Teaching experience. Contact the Music Office for more information.

APPLIED MUSIC:

Applied Music majors may incorporate their senior recital into their project for UNIV 401-402. Contact the Office of Undergraduate Research for more information.

MUSIC THEORY/COMPOSITION

Music Theory majors may substitute UNIV 401-402 for MUSC 419 and MUSC 421.

Composition majors may make original compositions the focus of UNIV 401-402. Contact the Office of Undergraduate Research for more information

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:

	CREDITS
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 repertory class.	
Ensemble	4
Ensemble and private study must be taken concurrently. (See Ensemble Policy in the Department of Music Student Handbook) Music Minors with principal instrument of piano, organ or guitar must refer to the Department for required ensembles.	
MUSC 185 and 195 Ear Training and Sight Singing/Harmony I	5
Music Literature/History	3
(MUSC 101 and 102 do not fulfill this requirement. Any other music history course will do.)	
TOTAL CREDITS	21
	(For Piano minors 20)

MUSIC MINOR: CHURCH MUSIC

The minor in Church Music is directed to the university student who wishes to learn about fundamental aspects of the field 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
(normally taken concurrently)	
MUSC 153, MUSC 154, MUSC 253 Private Study: BA/Minor	6
(may be taken in Organ or Voice)	
Ensemble (taken concurrently with applied study)	3
MUSC 212 History of Liturgy and Hymns	3
MUSC 291 Practicum in Church Music	1
MUSC 292 Organ Improvisation and Service Playing	2
(Prerequisites: MUSC 185 and 195; and two semesters of organ study, or permission of the instructor)	
MUSC 400 Internship	1-3
(Prerequisites: MUSC 212, 291, 292)	
TOTAL CREDITS	19-21

MUSIC MINOR: JAZZ STUDIES

The Music Minor in Jazz Studies offers a concentrated study of the history, theory, and performance elements of the field of jazz. It is directed towards two groups of students: (1) The non-music major who desires a focused study of jazz and its performance techniques; (2) Music Majors who wish to round out their education in music with a structured study of jazz. For this group, the Minor is an important component in a comprehensive education in Music. The requirements are:

	CREDITS
MUSC 181, 182, 281, 282, 283 Private Study: Jazz Styles/Tech.	10
MUSC 116 (four semesters), MUSC 321 Ensemble	5
MUSC 197 Jazz Harmony	3
MUSC 207 History of Jazz	3
TOTAL CREDITS	21

MUSIC MINOR: MUSIC MANAGEMENT STUDIES

The minor in music management studies examines the theory and practice of core principles in both the nonprofit and for-profit sectors of music. It 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 music who wish to develop executive careers within the music industry.

Students who are not also music majors must successfully complete (with a grade of C- or better) at least 15 credits of specified music theory courses, before declaring the minor or registering for the core courses listed below. A musicality test will be required for placement in music theory classes. Students interested in the minor in Music Management Studies are strongly urged to seek advisement from the music department upon admission to the University and not later than their sophomore year. Curriculum sheets for this minor are available in the music office and online through the Department of Music website at www.music.udel.edu

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

	CREDITS
MUSC 389 Elements of Music Management	3
MUSC 309 Patterns of Patronage	3
MUSC 464 Internship	1-3
MUSC 488 Principles of Music Industry Practice	3

TOTAL CREDITS 18-23

MUSIC MINOR: MUSICAL STUDIES

The Musical Studies minor is for nonmusic majors who wish to increase their knowledge and understanding of the history and theory of music. No audition is required for admission into the Musical Studies minor. The requirements are:

	CREDITS
MUSC 185 Ear Training and Sight Singing I	2
MUSC 195 Harmony I	3
MUSC 211 Introduction to Music History	3
MUSC 311 Music History: 400 - 1600	3
or	
MUSC 312 Music History: 1600 - 1827	3
or	
MUSC 313 Music History: 1827 to Present	3
MUSC History/Literature Elective (MUSC 101 and 102 do not fulfill this requirement. Any other music history course will do.)	
MUSC Theory Elective (MUSC 186, 196, 197, 287, 385)	2-3

Grade of C- or better required in all courses in minor.

TOTAL CREDITS 16-17

COMBINED BA/MBA PROGRAM

The four-year curriculum for the Bachelor of Arts in Music with Music Management Concentration degree contains required courses and electives that prepare the student for the Master in Business Administration curriculum. With this 4+1 plan and the proper scheduling of MBA classes, music students may enter immediately into the MBA program full-time with the possibility of completion within one year.

The following undergraduate courses are recommended for students seeking admission to the MBA program:

ECON 151	Introduction to Microeconomics: Prices and Markets
ECON 152	Introduction to Macroeconomics: The National Economy
ECON 300	Intermediate Microeconomic Theory

Also, it is recommended that students interested in the Combined BA/MBA Program follow OPTION TWO (Math 114 and Math 115) or OPTION THREE (one approved math course at 200-level or above) in fulfilling the Bachelor of Arts College Skill Requirements in the area of Mathematics (see page 91 for College

requirements).

Provisional admission to the MBA program may be obtained in the spring of a student's junior year. Full graduate admission is based on the fulfillment of the undergraduate degree, results of the Graduate Management Admission Test (GMAT—taken in the Junior year), GPA, work experience, letters of recommendation, extracurricular activities, maturity and a personal interview. Those accepted into the MBA program may be considered for graduate assistantships, Corporate Associates and graduate fellowships upon earning their bachelor's degree.

Applicable fees are those for matriculated undergraduate students for the first four years. During the fifth year of study, and any subsequent period if it becomes necessary, applicable fees are those for matriculated MBA graduate students. The MBA degree is granted upon completing all requirements with a grade point average of at least 3.0, participating in required activities and becoming an active member of the MBA community.

For details on the MBA curriculum, consult page 153 of this catalog. For further information about the 4+1 program, contact the Department of Music and Graduate and Executive Program Office of the Lerner College of Business and Economics.

NEUROSCIENCE

E-mail: skeen@udel.edu
<http://www.udel.edu/skeen/NSP>

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.

PHILOSOPHY

Telephone: (302) 831-2359
<http://www.udel.edu/Philosophy/default.html>
 Faculty Listing:
<http://www.udel.edu/Philosophy/content/home/people.htm>

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

CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

Both of the following History of Philosophy courses.	6
PHIL 301 Ancient Philosophy	
PHIL 303 Modern Philosophy	
One of the following Logic courses.	3
PHIL 105 Critical Thinking	
PHIL 205 Logic	
One of the following Ethics courses	3
PHIL 201 Social and Political Philosophy	
PHIL 203 Ethics	
One of the following Epistemology courses	3
PHIL 305 Twentieth Century Philosophy	
PHIL 306 Philosophy of Science	
PHIL 320 Theory of Knowledge	
One of the following Metaphysics courses.	3
PHIL 305 Twentieth Century Philosophy	
PHIL 315 Metaphysics	
PHIL 330 Philosophy of Mind	
PHIL 465 Senior Seminar	3
Three Philosophy elective courses, to include	9
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:

- All requirements for the Bachelor of Arts in Philosophy.
- All the University's generic requirements for the Honors Degree (see page 52 of this catalog).
 - At least six of the twelve Honors credits required in the major must be at the 300-level or higher.
 - 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
<http://www.physics.udel.edu/>
 Faculty Listing: <http://www.physics.udel.edu/contact/>

The Department of Physics and Astronomy offers an undergraduate major program leading to the BS in physics, with the option of a concentration in astronomy/astrophysics. A concentration in Geophysics is offered as an option within the BS degree in Geology (see page 232). There are also majors leading to the BA in physics and to the BA 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 Physics and Astronomy Department and of the Bartol Research Institute, in Sharp Laboratory, is diverse and substantial. Undergraduate participation in research is encouraged.

**DEGREE: BACHELOR OF ARTS
MAJOR: PHYSICS**

CURRICULUM CREDITS

See page 90 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

PHYS 169	Perspectives on Physics and Astronomy	1
PHYS 207/208	Fundamentals of Physics I and II (strongly recommended)	8
or		
PHYS 201/202	Introductory Physics I and II	8
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 211	Oscillations and Waves	3
Nineteen credits in Physics, of which fifteen must be at the 300-level or higher 19		
One of the following 6-12		
MATH 241/242/243	Analytic Geometry and Calculus A, B and C (recommended)	
or		
MATH 221/222	Calculus I and II	

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF SCIENCE
MAJOR: PHYSICS**

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
First Year Experience (see page 68) 0-4		
Discovery Learning Experience (see page 68) 3		
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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, pages 93-95.)

BREADTH REQUIREMENTS (See pages 95-99)

A total of eighteen 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

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. All 200-level PHYS courses used to satisfy prerequisite or graduation requirements must be passed with a minimum grade of C-.

PHYS 169	Perspectives: Physics and Astronomy	1
PHYS 207/208	Fundamentals of Physics I and II	8
PHYS 211	Oscillations and Waves	3
PHYS 309	20th/21st Century Physics	3
PHYS 310	Introduction to Thermal Physics	3
PHYS 313	Physical Optics	4
PHYS 419	Classical Mechanics I	3
PHYS 424	Quantum Mechanics	3
PHYS 603	Electricity and Magnetism I	3
Additional credits of Physics at or above the 400 level 15		
MATH 241/242/243	Analytic Geometry and Calculus A, B and C	12
BISC207	Introductory Biology	4

One of the following: 6
MATH 302/349 Ordinary Differential Equations and Elementary Linear Algebra
MATH 341/342 Differential Equations with Linear Algebra

One of the following: 4-5
CHEM 103 General Chemistry 4
CHEM 111/119 General Chemistry and Quantitative Chemistry 5

Foreign Language or Computer Science: 0-12
Completion of the intermediate-level course (107 or 112) in a given 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 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: ASTRONOMY/ASTROPHYSICS**

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
First Year Experience (see page 68) 0-4		
Discovery Learning Experience (see page 68) 3		
Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see pages 69-71) 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, pages 93-95.)

BREADTH REQUIREMENTS (See pages 95-99)

A total of eighteen 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.

All 200-level PHYS courses used to satisfy prerequisites or graduation requirements must be passed with a minimum grade of C-.

PHYS 169	Perspectives: Physics & Astronomy	1
PHYS 207/208	Fundamentals of Physics I and II	8
PHYS 211	Oscillation and Waves	3
PHYS 309	20th/21st Century Physics	3
PHYS 313	Physical Optics	4
PHYS 333	Fundamentals of Astrophysics	3
PHYS 419	Classical Mechanics I	3
PHYS 424	Quantum Mechanics	3
PHYS 449	Introduction to Research	3
PHYS 460	Computational Methods of Physics	3
PHYS 469	Observational Astronomy	3
PHYS 632	Astrophysics	3
PHYS 633	Stellar Astrophysics	3
MATH 241/242/243	Analytic Geometry and Calculus A, B and C	12
	Additional Credits of Physics or Math at or above the 300 level	12

One of the following 6
MATH 302/349 Ordinary Differential Equations and Elementary Linear Algebra
MATH 341/342 Differential Equations with Linear Algebra

One of the following 3-4
PHYS144 Concepts of the Universe
PHYS145 Black Holes and Cosmic Evolution
PHYS133 Introduction to Astronomy

Foreign Language or Computer Science: 0-12
Completion of the intermediate-level course (107 or 112) in a given 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 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

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

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

CURRICULUM CREDITS

See page 90 for University and College requirements.
Note: MATH 241 Analytical Geometry and Calculus A satisfies the Mathematics Skills College requirement and is strongly recommended as the first math course for physics education majors, unless the placement exam suggests differently.

MAJOR REQUIREMENTS

PHYS 207/208	Fundamentals of Physics I and II	8
PHYS 211	Oscillations and Waves	3
PHYS 309	20th/21st Century Physics	3
	Sixteen credits in PHYS, fifteen of which must be at the 300-level or higher.	16
MATH 241/242/243	Analytic Geometry and Calculus A, B and C	12
MATH 302	Ordinary Differential Equations	3
CHEM 103/104	General Chemistry	8
EDUC 413	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 420	Reading in the Content Areas	1
SCEN 491	Teaching Science in Secondary Schools	4
	A grade of C- or better is required in all required PHYS, MATH, CHEM, EDUC, and SCEN courses.	

To be eligible to student teach, Physics Education students must have a GPA of 2.75 in their physics 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. Students should consult the teacher education program coordinator (see page 215) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF 124

**HONORS BACHELOR OF SCIENCE:
PHYSICS (All Concentrations)**

- 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 8 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**

- The recipient must complete:
1. All requirements for the Bachelor of Arts 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 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 or PHYS 245 plus 9 credits from PHYS courses at or above the 300-level. PHYS 469/669 Observational Astronomy cannot be used to fulfill course requirements for this minor. Students considering minoring in physics should consult the physics Undergraduate Program Director for advice or prerequisites for these courses and for assignment to an advisor.

MINOR IN ASTRONOMY

The requirements for the minor in Astronomy are PHYS 207, PHYS 208, or PHYS 245, and at least 9 credits from among PHYS 133, or PHYS 144 or PHYS 145, and PHYS 333, PHYS 469, PHYS 434, PHYS 632, PHYS 633, PHYS 634, PHYS 635 and PHYS 644. Students considering a minor in physics should consult the Director of Physics and Astronomy Undergraduate Programs for advice on prerequisites for these courses and for assignment to an advisor.

POLITICAL SCIENCE, INTERNATIONAL RELATIONS, AND PUBLIC ADMINISTRATION

Telephone: (302) 831-2355
 http://www.udel.edu/poscir/
 Faculty Listing: http://www.udel.edu/poscir/people/faculty.shtml

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, and research methods. Beyond the core courses, majors may choose to specialize in one of four concentrations, or to major in political science without a concentration. In both cases, students are required to take their remaining credits at the upper level (300- and 400-level). Course work for both major options with or without a concentration helps students develop analytical and written and oral communication skills and prepares them for a wide array of careers (including law) and active citizenship. Political science majors are strongly encouraged to take advantage of many experiential learning opportunities including internships, independent research under faculty supervision, study abroad, or service learning. Detailed explanations of major requirements and experiential learning opportunities are available in the department office.

UD students who wish to change their major to political science must have completed POSC 150 with a grade of C- or better and completed at least 12 additional hours of University courses. Students must have a minimum of a 2.3 cumulative grade point average to change their major to political science. Students transferring into the major from outside the University of Delaware will have their transcripts evaluated on a case- by-case basis.

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

**DEGREE: BACHELOR OF ARTS
 MAJOR: POLITICAL SCIENCE
 CURRICULUM**

CREDITS

See page 90 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 240	Introduction to International Relations	3
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 courses at the 400-level; nine credits from courses at the 300- or 400-level.

A student must take at least one course numbered at the 300- or 400-level in four of the five fields listed below: (Detailed description of courses available from department office.)

- a. American Government and Politics (AG&P)
- b. Comparative Government and Politics (CG&P)
- c. International Relations (IR)
- d. Public Administration and Public Policy (PA&PP)
- e. Political Theory (PT)

Option Two: Major With Concentration

Students may choose from among four concentrations: (1) American Politics, (2) Global Studies, (3) Public Law, (4) Public Policy and Public Administration.

American Politics Concentration

Six courses (18 credits) from the following two fields, with at least three courses taken in each field and at least three courses taken at the 400-level)

Institutions & Processes

POSC 301	State and Local Government
POSC 303	Public Administration
POSC 320	Parties and Interest Groups
POSC 324	Voting and Elections
POSC 340	Politics and Media
POSC 404	Judicial Process
POSC 405	Constitutional Law of the United States
POSC 407	American Presidency
POSC 423	Congress and Public

Issues & Policies

POSC 313	American Foreign Policy
POSC 318	Public Opinion, Politics and Society
POSC 322	Race and Politics
POSC 323	Introduction to Women and Politics
POSC 343	Society, Politics and Health Care
POSC 387	American Political Thought
POSC 401	Gender, Sex, and Law
POSC 402	Civil Liberties: Individual Freedoms
POSC 403	Civil Liberties: Equal Protection Clause
POSC 413	Problems in American Government*
POSC 422	Political Leadership
POSC 438	Topics in Political Theory
POSC 451	Problems in Policy and Administration
POSC 456	Disaster and Politics

Three (3) credit hours of either POSC 464 or 468 may count once towards completion of the above fields (Institutions & Processes or Issues & Politics).

POSC 464 Internship in Political Science or POSC 468 Undergraduate Research

*POSC 401 Counts only when titled Gender, Sex and the Law

**May be taken twice when topics differ

Global Studies Concentration

Six courses (18 credits) from the following two fields, with at least three courses taken in each field and at least three courses taken at the 400-level.

Institutions & Processes

- POSC 309 Political Culture by Country
- POSC 310 European Governments
- POSC 311 Politics of Developing Nations
- POSC 312 Politics of East Asian Development
- POSC 339 Britain and Europe
- POSC 341 Environment of the Multinational Corporation
- POSC 362 Diplomacy
- POSC 363 International Law and Organization
- POSC 372 East Central European Politics
- POSC 408 International Organizations
- POSC 426 Latin American Political Systems
- POSC 427 Politics in China
- POSC 429 Southeast Asia and the World
- POSC 432 Political Systems of the Post-Soviet Union
- POSC 433 African Politics
- POSC 465 Model OAS**
- POSC 475 Model United Nation**

Issues & Politics

- POSC 313 American Foreign Policy
- POSC 315 Third World Women in Politics
- POSC 316 International Political Economy
- POSC 329 International Migration
- POSC 330 Political Terrorism
- POSC 333 Contemporary Political Ideologies

- POSC 377 Arab-Israeli Politics
- POSC 409 Problems in World Politics*
- POSC 410 Islam in Global Affairs
- POSC 412 Foreign Policy of the Post-Soviet Union
- POSC 414 Problems in American Foreign Policy*
- POSC 415 Force and World Politics
- POSC 422 Political Leadership
- POSC 430 The Intermestic Relations of Islam and America
- POSC 439 Problems in African Politics
- POSC 441 Problems in Western European Politics by Country
- POSC 442 Problems of Western European Politics
- POSC 443 China and the World
- POSC 444 Global Agenda*
- POSC 445 Human Rights and World Politics
- POSC 446 International Human Rights on Film
- POSC 448 Theories of International Relations
- POSC 450 Problems of Latin American Politics
- POSC 456 Disaster and Politics

Three (3) credit hours of either POSC 464 or 468 may count once towards completion of the above fields (Institutions & Processes or Issues & Politics).

POSC 464 Internship in Political Science or POSC 468 Undergraduate Research

*May be taken twice when topics differ.

**May be counted towards major and concentration once only.

Public Law Concentration

Six courses (18 credits) from the following two fields, with at least three courses taken in each field and at least three courses taken at the 400-level)

Institutions & Processes

- POSC 363 International Law and Organization
- POSC 380 Introduction to Law
- POSC 404 Judicial Process
- POSC 405 Constitutional Law
- POSC 407 American Presidency
- POSC 423 Congress and Public Policy

Issues & Politics

- POSC 387 American Political Thought
- POSC 401 Gender, Sex, and Law
- POSC 402 Civil Liberties: Individual Freedoms
- POSC 403 Civil Liberties: Equal Protection Clause
- POSC 434 Political Thought I
- POSC 435 Political Thought II
- POSC 445 Human Rights and World Politics

Three (3) credit hours of either POSC 464 or 468 may count once towards completion of the above fields (Institutions & Processes or Issues & Politics).

POSC 464 Internship in Political Science or POSC 468 Undergraduate Research

*May be taken twice when topics differ

Public Administration Concentration

POSC 464 Internship in Political Science 3

Five courses (15 credits) from the following tow fields, with at least three courses taken in Institutions and Processes and 2 courses taken from Issues and Policies with at least six credit hours at the 400-level.

Institutions & Processes

- POSC 301 State and Local Government
- POSC 303 Public Administration
- POSC 355 Urban Politics and Community Development
- POSC 408 International Organization
- POSC 423 Congress and Public Policy
- POSC 452 Urban Politics and Policy
- POSC 454 Organizational Behavior and Theory in the Public Sector
- POSC 455 Public Budgeting and Financial Management

Issues & Policies

- POSC 306 Economic Theory and Politics
- POSC 343 Society, Politics and Health Care
- POSC 350 Politics and the Environment
- POSC 411 Politics and Poverty
- POSC 415 Force and World Politics
- POSC 424 Energy Policy and Administration
- POSC 451 Problems in Policy and Administration
- POSC 456 Disaster and Politics

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
MAJOR: POLITICAL SCIENCE EDUCATION**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

- POSC 150 American Political System 3
- POSC 151 Exploring American Politics 1
- POSC 240 Introduction to International Relations 3
- 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

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 3
- 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 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

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 page 215) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF 124

**HONORS BACHELOR OF ARTS:
POLITICAL SCIENCE OR POLITICAL SCIENCE
EDUCATION**

A candidate for the Honors Bachelor of Arts in Political Science or Political Science Education must:

1. Fulfill all requirements for the BA in Political Science or Political Science Education.
2. Fulfill all the University's generic requirements for the Honors Degree (see page 52 of this catalog).
3. The Honors credits in the major **without concentration** shall come from at least two different fields within the discipline.
4. The Honors credits in the major **with concentration** shall come from at least two courses from the required concentration courses.
5. At least 6 Honors credits in the major must be at the 300 or 400 level.

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

CURRICULUM CREDITS

See page 90 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
(or other required intro courses)	
POSC 240 Introduction to International Relations	3
POSC 270 Comparative Politics	3
POSC 310 European Governments	3
POSC 441 Problems of Western European Politics by Country	3
or	
POSC 442 Problems of Western European Politics	

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

One of the following language options:

French

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

German

GRMN 2xx, 3xx, 4xx (prior to semester abroad; GRMN 255 recommended)	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

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.

CREDITS TO TOTAL A MINIMUM OF 124

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

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

Students wishing to complete an Honors BA in French, German, or Spanish/Political Science must:

1. Complete all requirements of the BA in French, German, or Spanish /Political Science.
2. Complete all the University's generic requirements for the Honors Degree (see page 52 of this catalog).

The Honors credits in the major shall come from both participating departments, and shall include at least two courses at the 300-level or above.

3. Achieve a cumulative grade point average for all courses in the major of at least 3.400.

MINOR IN POLITICAL SCIENCE

The required 15 credits for a minor in Political Science are as follows:

POSC 150 American Political System	3
One additional POSC course at the 200-level or higher	3
One additional POSC course at the 300- or 400-level	3
Two additional POSC courses at the 400-level	6

The three additional POSC courses at the 300- and 400-level should be taken in two of the five fields below:

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

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 five regional specializations, as detailed in the curriculum below. An honors degree option is available.

Area Studies Programs: International Relations majors should give serious consideration to adding one of the university's Area Studies programs: African Studies, European Studies, East Asian Studies, Islamic 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. Similarly, internships and undergraduate research experiences offered from the Newark campus may be applied to IR Concentration and Regional Specialization requirements. Students should check with the Director of Undergraduate Studies 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 CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

The core consists of 21 hours of course work:

POSC 150	American Political System	3
POSC 240	Introduction to International Relations	3
POSC 241	Exploring International Relations	1
ECON 151	Introduction to Microeconomics	3
ECON 152	Introduction to Macroeconomics	3
GEOG 120	World Regional Geography	3

One Foreign Languages and Literatures course beyond the intermediate level taught in the relevant language 3

One course from: 3

- HIST 102 Western Civilization 1648 to Present
- or
- HIST 104 World History II

And one history course from: 3

- HIST 130 Islamic Near East: 600-1500
- 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) Diplomacy 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.** One 3 credit course from IR concentration course lists other than the student's IR concentration may be used to fulfill a student's chosen concentration. **At least three courses must be taken at the 400 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	3
ECON 311	Economics of Developing Countries	3

At least two (6 credits) from: 6

- POSC 315 Third World Women in Politics
- POSC 316 International Political Economy
- POSC 341 Environment of Multinational Corporations

POSC 362	Diplomacy	
POSC 408	International Organization	
POSC 410	Islam in Global Affairs	
POSC 414	Problems in American Foreign Policy	
POSC 444	Global Agenda	
POSC 445	Human Rights and World Politics	
POSC 446	International Human Rights on Film	
POSC 448	Theories of International Relations	
POSC 456	Disaster and Politics	
POSC 465	Model OAS	
POSC 475	Model UN	
POSC 640	International Development Policy and Administration	
Other courses approved to fulfill the 18 credit minimum in addition to courses listed above		0-6

ANTH 222	Technology and Culture	
ANTH 225	Peasant Societies	
ANTH 230	Peoples of the World	
ANTH 330	Development and Underdevelopment	
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	Economies 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 422	Resources, Development, and the Environment	
HIST 381	Islam and the West: The History of Mutual Perceptions	
HIST 395	Pan Africanism	
SOCI 328	Work in Global Economy	
SOCI 331	World Population: Profiles and Trends	
SOCI 360	Sociology of Religion	
SOCI 361	Racial Inequality	
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	3
ECON 340	International Economics	3

At least two (6 credits) from: 6

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 410	Islam in Global Affairs	
POSC 414	Problems in American Foreign Policy	
POSC 415	Force and World Politics	
POSC 430	The Intermestic Relations of Islam and America	
POSC 444	Global Agenda	
POSC 445	Human Rights and World Politics	
POSC 446	International Human Rights/Film	
POSC 448	Theories of International Relations	
POSC 456	Disaster and Politics	
POSC 465	Model OAS	
POSC 475	Model United Nations	
POSC 604	International Law	

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 401	The Idea of Race	
ECON 311	Economics of Developing Countries	
ECON 341	Environment of Multinational Corporations	
ECON 344	The Making of the European Economy	
ECON 345	Economies In Transition	
ECON 441	Advanced International Microeconomics	
ECON 443	International Monetary Economics	
GEOG 102	Human 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
HIST 210	War in Western Civilization
HIST 254	Jewish Holocaust 1933-1945
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
SOCI 328	Work in a Global Economy
SOCI 331	World Population: Profiles and Trends
SOCI 360	Sociology of Religion
SOCI 361	Racial Inequality
FREC 410	International Agricultural Trade and Marketing
FREC 420	Agriculture in Economic Development
PHIL 204	World Religions

International Political Economy Concentration

Required:

POSC 316	International Political Economy	3
ECON 340	International Economics	3

At least two (6 credits) from:

POSC 333	Contemporary Political Ideologies	6
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 456	Disaster and Politics	
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 311	Economics of Developing Countries
ECON 341	Environment of Multinational Corporations
ECON 344	The Making of the European Economy
ECON 345	Economies in Transition
ECON 411	Economic Theory of Developing Countries
ECON 441	Advanced International Microeconomics
ECON 443	International Monetary Economics
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
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
SOCI 328	Work in Global Economy
SOCI 331	World Population: Profiles and Trends
FREC 410	International Agricultural Trade and Marketing
FREC 420	Agriculture in Economic Development

U.S. Foreign Policy Concentration

Required:

POSC 313	American Foreign Policy	3
ECON 340	International Economics	3

At least two (6 credits) from:

POSC 330	Political Terrorism	6
POSC 333	Contemporary Political Ideologies	
POSC 341	Environment of Multinational Corporations	
POSC 362	Diplomacy	
POSC 363	International Law and Organization	
POSC 408	International Organization	
POSC 409	Contemporary Problems of World Politics	
POSC 410	Islam in Global Affairs	
POSC 414	Problems in American Foreign Policy	
POSC 415	Force and World Politics	
POSC 430	The Intermestic Relations of Islam and America	
POSC 444	Global Agenda	
POSC 445	Human Rights and World Politics	
POSC 446	International Human Rights on Film	
POSC 448	Theories of International Relations	
POSC 465	Model OAS	
POSC 604	International Law	

Other courses approved to fulfill the 21 credit concentration minimum in addition to courses listed above: 0-6

ANTH 222	Technology and Culture
ANTH 230	Peoples of the World
ANTH 401	The Idea of Race
ECON 311	Economics of Developing Countries
ECON 341	Environment of Multinational Corporations
ECON 344	The Making of the European Economy
ECON 345	Economies in Transition
ECON 411	Economic Theory of Developing Countries
ECON 441	Advanced International Microeconomics
ECON 443	International Monetary Economics
GEOG 102	Human Geography
GEOG 210	Economic Geography
GEOG 422	Resources Development and the Environment
GEOG 438	World Cities in Comparative Perspective
HIST 210	War in Western Civilizations
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 331	World Population: Profiles and Trends
SOCI 361	Racial Inequality
PHIL 204	World Religions

REGIONAL SPECIALIZATIONS

Students must choose one of five regional specializations: (1) Africa, (2) Asia, (3) Europe, (4) Latin America, (5) Middle East. 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: 9

POSC 270	Comparative Politics
POSC 311	Politics of Developing Nations
POSC 315	Third World Women in Politics
POSC 433	African Politics
POSC 439	Problems in 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	Seminar 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: 9

POSC 270	Comparative Politics
POSC 311	Politics of Developing Nations
POSC 312	Politics of East Asian Development
POSC 315	Third World Women in Politics
POSC 427	Politics in China
POSC 429	Southeast Asia and the World
POSC 443	China and the World
ANTH 210	Peoples and Cultures of Southeast Asia
ANTH 211	Peoples and Cultures of East Asia
ANTH 225	Peasant Societies
ANTH 310	Asian Women's Lives
ANTH 312	Asian Women in the Globalized Workplace
ANTH 330	Development and Underdevelopment
ECON 305	Comparative Economic Systems
ECON 311	Economics of Developing Countries
ECON 341	Environment of Multinational Corporations
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 365	Topics in East Asian History
HIST 368	History of China 1600-1920
HIST 369	China Since 1900
HIST 370	History of Modern Japan
HIST 371	Postwar Japan

HIST 372	Popular Culture in Urban Japan
HIST 381	Islam and the West: The History of Mutual Perceptions
HIST 393	History of Modern Vietnam
HIST 479	Seminar in Asian History
PHIL 309	Indian Religion and Philosophy
PHIL 310	Chinese Religion and Philosophy

European Specialization

Three courses from the following, with at least one course in Political Science, and at least 3 credits at the 400 level 9

POSC 270	Comparative Politics
POSC 310	European Government
POSC 339	Britain and Europe
POSC 372	East Central European Politics
POSC 412	Foreign Policy of Post-Soviet Union
POSC 432	Political System Post-Soviet Union
POSC 441	Problems of Western European Politics: Countries
POSC 442	Problems of Western European Politics
ANTH 225	Peasant Societies
ANTH 325	Peoples of Europe
ECON 341	Environment of Multinational Corporations
ECON 344	The Making of the European Economy
ECON 345	Economies in Transition
ECON 444	Analysis of European Economic Performance
HIST 254	The Jewish Holocaust, 1933-1945
HIST 339	Topics in Modern European History
HIST 348	History of Spain 1479-Present
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 359	Soviet Russia, 1917-1990
HIST 362	European Cultural History, 1748-1889
HIST 363	European Cultural History Since 1889
HIST 373	Modern Ireland, 1534 to Present
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 one course in Political Science, and at least 3 credits at the 400 level 9

POSC 270	Comparative Politics
POSC 311	Politics of Developing Nations
POSC 426	Latin American Political System
POSC 450	Problems of Latin American Politics
ANTH 225	Peasant Societies
ANTH 330	Development and Underdevelopment
ANTH 351	Race in Latin America
ANTH 375	Peoples Cultures of Modern Latin America
ANTH 380	Peoples Cultures of Mexico and Central America
ECON 311	Economics of Developing Countries
ECON 341	Environment of Multinational Corporations
ECON 411	Economic Theory of Developing Countries
GEOG 226	Geography of Latin America
HIST 135	Introduction to Latin American History
HIST 331	History of Caribbean I
HIST 332	History of Caribbean II
HIST 336	Topics in Latin American History
HIST 349	Hispanic Societies: 1800-Present
HIST 430	Seminar in 20th Century Latin American Revolutions
HIST 477	Seminar in Latin American History
SOCI 319	Sociology of Latin America
SPAN 307	Contemporary Latin America II

Middle East Specialization

Three courses from the following, with at least one course in Political Science, and at least 3 credits at the 400 level 9

POSC 270	Comparative Politics
POSC 311	Politics of Developing Nations
POSC 315	Third World Women in Politics
POSC 377	Arab-Israeli Politics
POSC 410	Islam in Global Affairs
POSC 430	The Intermestic Relations of Islam and America
ANTH 212	Peoples and Cultures of the Muslim World
ANTH 261	Peoples and Cultures of the Middle East

ANTH 314	Immigrant Islam: The Muslim Diaspora in the West
ANTH 316	Islam and Gender
ANTH 330	Development and Underdevelopment
ECON 311	Economics of Developing Countries
ECON 341	Environment of Multinational Corporations
HIST 131	Islamic Near East 1500 to Present
HIST 377	Radicalism and Revolution: Islamic Movement/Modern Middle East
HIST 378	Nationalism in Modern 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

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 BA in International Relations.
2. Fulfill all the University's generic requirements for the Honors Degree (see page 52 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

<http://w3.psych.udel.edu/>

Faculty Listing: <http://w3.psych.udel.edu/people/index.asp>

The department of Psychology offers a BA degree with a major in Psychology, a BS degree with a major in Psychology, a BA degree with a major in Psychology Education, a minor in Psychology, and an interdepartmental 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 interdepartmental major are available from the 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. 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 CREDITS

See page 90 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.

PSYC 207 Research Methods 3
Note that PSYC 207 is a prerequisite for all of the required higher level PSYC courses.

PSYC 209 Measurement and Statistics 3
Note that PSYC 209 must be taken after the MATH requirement is fulfilled; PSYC 209 is a prerequisite for all of the required higher level PSYC courses.

One of the following four courses: 3
PSYC 312 Learning and Motivation
PSYC 314 Brain and Behavior
PSYC 316 Biological Bases of Behavior
PSYC 318 Physiological Psychology
PSYC 320 Introduction to Neuroscience

One of the following three courses: 3
PSYC 310 Sensation and Perception
PSYC 340 Cognition
PSYC 344 Psychology of Language

One of the following two courses: 3
PSYC 350 Developmental Psychology
PSYC 380 Psychopathology

One of the following three courses: 3
PSYC 370 Research in Personality
PSYC 386 Applied Social Psychology
PSYC 390 Social Psychology
PSYC 394 Cultural Psychology

Two courses at or above the 400-level 6
(except PSYC 466 or PSYC 404)

Three credits of any Psychology course 3
(except PSYC 301, 303, 325 and 334)

A grade of C- or better is required in all PSYC major-related 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: PSYCHOLOGY EDUCATION**

CURRICULUM CREDITS

See page 90 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.

PSYC 207 Research Methods 3
Note that PSYC 207 is a prerequisite for all of the required higher level PSYC courses.

PSYC 209 Measurement and Statistics 3
Note that PSYC 209 must be taken after the MATH requirement is fulfilled; PSYC 209 is a prerequisite for all of the required higher level PSYC courses.

One of the following four courses: 3
PSYC 312 Learning and Motivation
PSYC 314 Brain and Behavior
PSYC 316 Biological Bases of Behavior
PSYC 318 Physiological Psychology

PSYC 320 Introduction to Neuroscience

One of the following three courses: 3

PSYC 310 Sensation and Perception
PSYC 340 Cognition
PSYC 344 Psychology of Language

One of the following two courses: 3

PSYC 350 Developmental Psychology
PSYC 380 Psychopathology

One of the following three courses: 3

PSYC 370 Research in Personality
PSYC 386 Applied Social Psychology
PSYC 390 Social Psychology
PSYC 394 Cultural Psychology

Two courses at or above the 400-level 6
(except PSYC 466 or PSYC 404)

Three credits of any Psychology course 3
(except PSYC 301, 303, 325 and 334)

Twenty-four credits in the social sciences with at least three credits in each of the following departments: 24

Anthropology
Economics
Geography
History
Political Science
Sociology

Six additional credits selected from the social science 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 400 Student Teaching 9

A grade of C- or better is required in all required PSYC, EDUC, HIST, and major related courses.

To be eligible to student teach, Psychology 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 page 215) 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 SCIENCE
MAJOR: PSYCHOLOGY**

UNIVERSITY REQUIREMENTS:

CURRICULUM CREDITS

ENGL 110 Critical Reading and Writing 3

First Year Experience (see page 68) 0-4

Discovery Learning Experience (see page 68) 3

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related course content (see pages 69-71) 3

COLLEGE REQUIREMENTS:

Foreign Language 0-12
Breadth Requirements 24
(Minimum of 6 credits each in Groups A & B; 12 credits in Group C)

SECOND WRITING REQUIREMENT 3

SCIENCE CORE:

Biological Sciences	11
Take these 3 courses:	
BISC 207 Introductory Biology I	4
BISC 208 Introductory Biology II	4
BISC 306 General Physiology	3
BISC 207 will be taken in the Spring semester and 208 in the Fall semester, as per agreement with the Biology Dept.	
Chemistry and Physics	8
Take 2 courses in sequence:	
CHEM 103/104 General Chemistry	8
or	
PHYS 201/202 Introductory Physics I/II	8
Mathematics	3-4
MATH 221 Calculus	3
or	
MATH 241 Analytic Geometry and Calculus A.	4
Computer Science	3
CISC 105 General Computer Science	3

MAJOR REQUIREMENTS:

PSYC 100 General Psychology	3
PSYC 207 Research Methods	3
PSYC 209 Measurement and Statistics	3
One of the following four courses:	3
PSYC 312 Learning and Motivation	
PSYC 314 Brain and Behavior	
PSYC 316 Biological Bases of Behavior	
PSYC 318 Physiological Psychology	
PSYC 320 Introduction to Neuroscience	
One of the following three courses:	3
PSYC 310 Sensation and Perception	
PSYC 340 Cognition	
PSYC 344 Psychology of Language	
One of the following two courses:	3
PSYC 350 Developmental Psychology	
PSYC 380 Psychopathology	
One of the following two courses:	3
PSYC 370 Research in Personality	
PSYC 386 Applied Social Psychology	
PSYC 390 Social Psychology	
PSYC 394 Cultural Psychology	
Three courses at the 400-level or the 600-level:	9
Two courses of supervised research:	6
PSYC 468 Research	
or	
UNIV 401/402 Thesis	
A grade of C- or better is required in all BISC, CHEM, PHY, MATH, CISC, and PSYC courses.	

**HONORS BACHELOR OF ARTS:
PSYCHOLOGY OR PSYCHOLOGY EDUCATION**

The recipient must complete:

1. All requirements for the Bachelor of Arts or Science in Psychology or in Psychology Education.
2. All the University's generic requirements for the Honors Degree (see page 52 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, 390, or 394; 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
<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.

SEXUALITIES AND GENDER STUDIES

Contact: Gary Ferguson
Email: Ferguson@udel.edu

The interdisciplinary Sexualities and Gender Studies minor explores the relationship of gender and sexuality to the law, politics, religion, criminal justice, psychology, medicine, education, and the arts. For advisement, course substitutions or exemptions, or a list of approved courses, please see our web site.

The SGST minor consists of 18 credits: three required courses and three elective courses of three credits each. From the elective courses students should take at least two courses at the 300 or 400 level.

Required Courses. 9 credits

SGST/WOMS 200 Cultural Introduction to Sexualities and Gender Studies
BISC 152 Biology of Human Sexuality
or
IFST/WOMS/HESC 401 Foundations of Human Sexuality
PHIL/WOMS 216 Introduction to Feminist Theory
or
PHIL/WOMS/BAMS 327 Race, Gender, Science

Elective Courses. 9 credits

ANTH/WOMS 305 The Evolution of Human Sex Roles and Reproduction
ENGL 214 Literature and Gender/Sexuality
ENGL/WOMS 380 Women Writers
(when offered as Virginia Woolf and Lesbian Writing)
ENGL 480 Seminar
(when offered as Sexuality and Identity in the Age of Enlightenment)
FLIT 320 Varying Authors and Genres
(when offered as (Homo) Sexualities in Pre-Modern Europe)
IFST 338 Sexuality in Contemporary Society
MSST 206 Queer Sexual Imagery in the Visual Arts
POSC 401 Topics in Constitutional Law
(when offered as Law and Sexuality)
SGST/WOMS 208 Current Issues in Sexuality and Gender
SGST/WOMS 301 Gay and Lesbian Film
WOMS 324 Feminism and Sexualities
SOCI/WOMS 213 Men and Women in American Society
SOCI/WOMS 407 Sociology of Sex and Gender

Other courses as approved by the faculty coordinator of the minor and the Women's Studies Curriculum Committee.

TOTAL CREDITS. 18**SOCIOLOGY AND CRIMINAL JUSTICE**

Telephone: (302) 831-2581
<http://www.udel.edu/soc/>
Faculty Listing: <http://www.udel.edu/soc/faculty.html>

The Department of Sociology and Criminal Justice administers separate undergraduate programs in Sociology and in Criminal Justice.

SOCIOLOGY

The sociology major is designed to provide students with a broad understanding of the dynamics of society and social relations. The curriculum include core courses in social theory and research methods and emphasizes flexibility by allowing students to design a program that fits their particular needs and objectives. There are also concentrations in 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 for academic credit.
- Includes certification of these concentrations by the department, which may be beneficial in obtaining employment.
- Offers increased flexibility for the student by allowing choices among various focused, directed concentrations.

**DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

SOCI 201	Introduction to Sociology	3
SOCI 301	Introduction of Sociological Research	4
SOCI 312	Theories of Society	3

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).

Five courses in related subjects 15
chosen in consultation with the advisor, normally from among the following departments: Economics, Black American Studies, Criminal Justice, Geography, History, Philosophy, Political Science and International Relations, Psychology, and Statistics.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: EMERGENCY & ENVIRONMENTAL
MANAGEMENT**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

SOCI 201	Introduction to Sociology	3
SOCI 301	Introduction of Sociological Research	4
SOCI 312	Theories of Society	3

Two of the following three courses: 6

SOCI 324	Issues in Emergency Management
SOCI 325	Disaster and Society
SOCI 470	Environmental Sociology

SOCI 326 Practicum in Emergency and Environmental Management 4
(This course is required but does not count as part of the 31 Sociology credits for the major.)

Any five courses in Sociology, 15
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 (326, 410, 412, 441, 442, 464). The following courses are recommended:

SOCI 204	Urban Communities
SOCI 209	Social Problems
SOCI 311	Sociology of Health Care
SOCI 322	Crowds, Cults, and Revolutions
SOCI 323	Sociology of Risk
SOCI 327	Sociology of Organizations
SOCI 331	World Population: Profiles and Trends
SOCI 341	Welfare and Society
SOCI 361	Racial Inequality

Five additional courses in related subjects 15
chosen in consultation with the Concentration coordinator. The following are recommended but the student is not limited solely to these courses:

ANSC 270	Biotechnology: Science and Socio-Economics Issues
ANTH 101	Introduction to Social and Cultural Anthropology
COMM 245	Mass Communication and Culture
COMM 256	Principles of Communication Theory
GEOG 203	Introduction to Cultural Geography
GEOG 235	Conservation of Natural Resources
GEOG 236	Conservation: Global Issues
GEOG 310	Social Geography
GEOG 320	Water and Society
GEOG 449	Environment and Society
GEOL 112	Earth Resources and Public Policy
POSC 220	Introduction to Public Policy
POSC 240	Introduction to International Relations
POSC 303	Public Administration
POSC 311	Introduction to Politics in Developing Countries
POSC 350	Politics and the Environment
POSC 456	Disasters and Politics

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: HEALTH SERVICES**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

SOCI 201	Introduction to Sociology	3
SOCI 301	Introduction of Sociological Research	4
SOCI 311	Sociology of Health Care	3
SOCI 312	Theories of Society	3

Any five other courses in Sociology, 15
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).

One of the following: 3
SOCI 341 Welfare and Society
SOCI 348 Theories of Social Work Practice

Related Work:

SOCI 410 Health Services Practicum and Seminar. 4
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 11
and will be selected in consultation with the student's advisor. Departments offering
courses filling the needs of health concentration students include Anthropology,
Business Administration, Science and Culture, Economics, Individual and Family
Studies, Philosophy, Psychology, and Women's Studies.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: LAW AND SOCIETY**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

SOCI 201 Introduction to Sociology 3
SOCI 301 Introduction of Sociological Research. 4
SOCI 312 Theories of Society 3
SOCI 345 Sociology of Law. 3
SOCI 442 Law and Society Practicum and Seminar. 4

This course is required but does not count as part of the thirty-one Sociology credits
for the major.

One of the following courses: 3
SOCI 416 Social Thought and Contemporary Society
SOCI 450 Political Sociology
SOCI 456 Lawyers and Society

Any five other courses in Sociology, 15
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).

Suggested courses for the study of family/gender include:

SOCI 213 Men and Women in American Society
SOCI 302 Social Deviance
SOCI 303 Juvenile Delinquency
SOCI 308 The Family
SOCI 330 Population, Law and Society
SOCI 407 Sociology of Sex and Gender

Suggested courses in the organization/work area:

SOCI 327 Sociology of Organizations
SOCI 330 Population, Law and Society
SOCI 355 Computers, Ethics and Society
SOCI 428 Corporate Crime

Twelve credits from the following courses are recommended: 12

CRJU 320 Introduction to Criminal Law
CRJU 347 The Jury: Guilty or Not Guilty
CRJU 357 Seminar on the Police
CRJU 425 Criminal Law and Social Policy
CRJU 4xx Contemporary Debates
POSC 402 Civil Liberties I
POSC 404 The Judicial Process
POSC 405 Constitutional Law of the U.S.
POSC 406 Civil Liberties II
PHIL 201 Social and Political Philosophy
PHIL 446 Philosophy of Law
HIST 301 The Worker in American Life

HIST 309 U.S. Business and Political Economy

A second writing course in any department. 3

A course in oral communication is suggested. 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: SOCIOLOGY
CONCENTRATION: SOCIAL WELFARE**

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

SOCI 201 Introduction to Sociology 3
SOCI 301 Introduction of Sociological Research. 4
SOCI 312 Theories of Society 3
SOCI 341 Welfare and Society 3
SOCI 348 Theories of Social Work Practice. 3
SOCI 441 Social Welfare Practicum and Seminar. 4

This course is required but does not count as part of the thirty-one Sociology credits
for the major.

Any five courses in Sociology, 15
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). The following courses are
recommended:

SOCI 204 Urban Communities
SOCI 215 Race in Society
SOCI 302 Social Deviance
SOCI 303 Juvenile Delinquency
SOCI 304 Criminology
SOCI 305 Social Class and Inequality
SOCI 308 The Family
SOCI 346 Sociology of Aging
SOCI 361 Race, Power and Social Conflict
SOCI 415 Race, Class and Gender
SOCI 418 Race, Gender and Poverty

Eleven additional credits of related work are required 11

and may include the following:

POSC 411 Politics and Poverty
PSYC 301 Personality
PSYC 325 Child Psychology
PSYC 333 Psychology of Women
PSYC 334 Abnormal Psychology
IFST 235 Survey in Child and Family Services
IFST 332 Counseling Theories
or
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

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

CURRICULUM CREDITS

See page 90 for University and College requirements.

MAJOR REQUIREMENTS

SOCI 201 Introduction to Sociology 3
SOCI 301 Introduction of Sociological Research. 4
SOCI 312 Theories of Society 3

Seven Sociology courses, 21
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).

Twenty-four credits in the social sciences with at least three credits in each of the following departments: 24
 Anthropology course
 Economics course
 Geography course
 History course
 Political Science course
 PSYC 100 General Psychology

Six additional credits selected from the social science 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
 EDUC 420 Reading in the Content Areas 1
 HIST 491 Planning a Course of Instruction 3
 HIST 493 Seminar: Problems in Teaching History and Social Sciences . . . 3
 EDUC 400 Student Teaching 9

A grade of C- or better is required in all required SOCI, EDUC, HIST and major related courses.
 To be eligible to student teach, Sociology Education students must have a GPA of 3.0 in their major and an overall GPA of 2.75. Students must pass a teacher competency test as established by the University Council on Teacher Education. Students should consult the teacher education program coordinator (see page 215) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF 124

**HONORS BACHELOR OF ARTS:
 SOCIOLOGY (All Concentrations)**

- Students wishing to receive an Honors BA in Sociology must complete:
1. All requirements for the Bachelor of Arts degree with a major in Sociology, and where appropriate, concentration requirements (see www.udel.edu/soc/concentr.htm)
 2. All of the University's generic requirements for the Honors Baccalaureate degree.
 3. Twelve credits of honors courses in Sociology. At least six credits must be at the 300 level or higher.

MINOR IN SOCIOLOGY

The minor in sociology requires SOCI 201 plus 15 credits in sociology, with at least 9 credits at or above the 300-level. SOCI 301 or 312 is required or an equivalent course in another social science discipline, such as PSYC 209, ECON 422, 426, MATH 205, POSC 302, 434 or 435.

CRIMINAL JUSTICE

The Criminal Justice major program is structured around a core of criminal justice courses on such topics as law enforcement, the judicial process, juvenile justice, corrections, and the criminal law. The Criminal Justice curriculum includes courses in sociology, political science, psychology, and at least one foreign language. Junior and senior majors have the opportunity to be placed in a field experience with a criminal justice-related organization.

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 CREDITS

See page 90 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

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.

SOCI 201	Introduction to Sociology	3
SOCI 301	Introduction of Sociological Research	4
	(requires a grade of C- or better)	
POSC 150	The American Political System	3
PSYC 100	General Psychology	3
One of the following four courses: 3		
PSYC 301	Personality	3
PSYC 303	Introduction to Social Psychology	3
PSYC 325	Child Psychology	3
PSYC 334	Abnormal Psychology	3

One of the following four courses: 3

POSC 401	Topics in Constitutional Law	3
POSC 402	Civil Liberties: Individual Freedoms	3
POSC 403	Civil Liberties: Equal Protection Clause	3
POSC 405	Constitutional Law of the United States	3

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

**DEGREE: BACHELOR OF ARTS
 MAJOR: CRIMINAL JUSTICE
 CONCENTRATION: LAW AND SOCIETY**

CURRICULUM CREDITS

See page 90 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

Criminal Justice electives totaling 18 credits. 18

Electives must include one of the following introductory courses.

CRJU 301	Introduction to Legal Studies	3
CRJU 345	Sociology of Law	3

Electives must also include at least one of the following courses containing significant legal or sociolegal content:

CRJU 311	Capital Punishment and the Law	3
CRJU 320	Introduction to Criminal Law	3
CRJU 324	American Constitutional History	3
CRJU 346	Psychology and the Law	3

CRJU 375 Criminal Procedure
 CRJU 425 Criminal Law and Social Policy
 CRJU 446 Judging the Jury
 CRJU 450 Prisoners and the Law
 CRJU 457 Criminal Evidence
 CRJU 475 Social Science and the Law
 CRJU 367/467 Other experimental courses with significant legal or sociolegal component, with the permission of the student's advisor. NOTE: CRJU 301 Introduction to Legal Studies and CRJU 345 Sociology of Law, if not used to fulfill the introductory course requirement, are also acceptable for the law-related elective requirement.

A grade of C- or better is required in all CRJU courses.
 Required related work:

SOCI 201 Introduction to Sociology 3
 SOCI 301 Introduction of Sociological Research 4
 POSC 105 American Political System 3
 PSYC 100 General Psychology 3

One of the following four courses: 3

POSC 401 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

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 as a 366 or 466 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 BA 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.

THEATRE

Telephone: (302) 831-2201
 http://www.pttp.udel.edu
 Faculty Listing: http://www.pttp.udel.edu/faculty.html

The Theatre Department offers three distinct minors all designed to deepen the student's appreciation of the theatre as an art form within the context of a liberal arts education. Coursework in all minors provides students with a 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.

PERFORMANCE STUDIES MINOR

The Performance Studies Minor is designed for those students who are interested in learning about the performance areas of the theatre – acting, voice, speech, movement, and other related subjects – and who desire the opportunity to explore these areas through the prescribed coursework of a minor.

THEA 204 Introduction to Voice and Speech 3
 THEA 205 Introduction to Stage Movement 3
 THEA 226 Fundamentals of Acting I 3
 THEA 227 Fundamentals of Acting II 3

Elective – Choose one from the following list: 3

THEA 236 Fundamentals of Jazz Dance
 THEA 348 Special Topics in Theatre Performance
 (or other courses as approved by advisor)
 THEA 360 Fundamentals of Oral Interpretation
 THEA 420 Fundamentals of Directing

Total Credits 15

THEATRE PRODUCTION MINOR

The Theatre Production Minor is designed for those students who are interested in learning about the production areas of the theatre – scenery, lighting, properties, sound, costuming, stage management, and other related subjects – and who desire the opportunity to explore these areas through the prescribed course work of a minor.

Choose one from the following list: 3

THEA 200 Introduction to Theatre Production
 THEA 202 Introduction to Theatre Design
 THEA 203 Introduction to Costuming*

Electives - Choose one from the following list: 6-9

THEA 300 Fundamentals of Stagecraft
 THEA 301 Fundamentals of Properties Construction
 THEA 302 Fundamentals of Stage Lighting
 THEA 303 Fundamentals of Scene Painting
 THEA 304 Fundamentals of Audio
 THEA 305 Fundamentals of Costume Construction
 THEA 306 Fundamentals of Patternmaking
 THEA 307 Fundamentals of Draping for the Stage
 THEA 308 Fundamentals of Costume Crafts
 THEA 309 Fundamentals of Stage Management
 THEA 310 Fundamentals of Maskmaking
 THEA 311 Fundamentals of Scene Design
 THEA 312 CAD and Computer Applications for Theatre Production
 (or other courses as approved by advisor)
 THEA 408 Theatre Practicum for Minors 3-6**

TOTAL CREDITS 15

*Students interested in taking 300-level costume courses as their elective choices should take THEA 203 as their introductory course choice.

**Students electing to take two 300-level electives for a total of 6 crs. must take 6 crs. of THEA 408. Students electing to take three 300-level electives for a total of 9 crs. must take 3 crs. of THEA 408.

THEATRE STUDIES MINOR

The Theatre Studies Minor is designed for those students who are interested in a variety of areas of the theatre – performance, production, history, directing, and other related subjects – and who desire the opportunity to explore these areas through the prescribed course work of a minor.

THEA 104 Introduction to Theatre and Drama 3
 Theatre Electives at the 200-level 6
 Theatre Electives at the 300- and/or 400-level 6

TOTAL CREDITS 15

WOMEN'S STUDIES

Telephone: (302) 831-8474
 http://www.udel.edu/WomensStudies
 Faculty Listing:
 http://www.udel.edu/WomensStudies/facultyAndStaff.shtml

Women's Studies provides courses that allow students to explore a range of interests from the perspectives of anthropology, cultural studies, economics, history, linguistics, literature, philosophy, political science, psychology, science, sociology, and the arts. This interdisciplinary curriculum helps to prepare students for careers in a variety of fields, including social work, public policy, health, and business, and it provides a good background for further education in such fields as law, education, and social policy. Courses interrogate gender and its relationship to categories such as sexuality, race, class, nationality, religion, and age.

The program offers a BA degree in Women's Studies, with an Honors Degree option and a minor in Women's Studies. The program also administers the interdisciplinary minor in Sexualities and Gender Studies (see page 168). Majors may choose to complete a concentration in Women in Global Perspective. Interdepartmental and double majors are also options. In addition, an internship gives students an opportunity to integrate classroom learning with practical competencies gained from actual experience. No minimum grade point average is required to begin, but students must not be on academic probation.

DEGREE: BACHELOR OF ARTS
MAJOR: WOMEN'S STUDIES
 CURRICULUM

CREDITS

See page 90 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 The Study of Women's Studies	3

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):

WOMS 203/PHIL 202 Contemporary Moral Problems	
WOMS 205 Women in the Arts and Humanities	
WOMS/PHIL 210 Women and Religion	
WOMS/MSST 215 Queer Sexual Imagery in the Visual Arts	
WOMS/ARTH 242 Woman as Image and Iimagemaker	
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 324 Feminism and Sexualities	
WOMS/FLIT 325 Topics: German 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 352 Studies in Nineteenth Century Literature	
WOMS/ENGL 353 Twentieth Century British Literature	
WOMS/HIST 372 Popular Culture in Urban Japan	
WOMS/FLIT 375 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 472/HIST 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/LING 222 Language and Gender	
WOMS/ANTH 223 Food, Gender and Culture	
WOMS 240 Women and Violence	
WOMS/ANTH 310 Asian Women's Lives	
WOMS/ANTH 312 Asian Women in the Globalized Workplace	
WOMS/POSC 315 Third World Women in Politics	
WOMS/ANTH 316 Islam and Gender	
WOMS/POSC 323 Introduction to Women and Politics	
WOMS 332 Women, Race and Ethnicity	
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/POSC 401 Topics in Constitutional Law	
WOMS/SOCI 407 Sociology of Sex and Gender	
WOMS/IFST 409 Domestic Violence Services	
WOMS/POSC 413 Problems in American Government	
WOMS/SOCI/BAMS 415 Race, Class, and Gender	
WOMS/SOCI/BAMS 418 Race, Gender, and Poverty	
WOMS/IFST 430 Family Life Education	
WOMS/POSC 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: 3

WOMS/CSCC 233 Women, Biology, and Medicine	
WOMS/ANTH 305 The Evolution of Human Sex Roles and Reproduction	
WOMS/PHIL 327 Race, Gender, Science	
WOMS/CSCC/PHIL 389 Topics: Women and Health Issues	

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.

Women's Studies Capstone Course Requirement

Every senior Women's Studies major must enroll in the 3 credit capstone course, The Study of Women's Studies (WOMS 410). The capstone course will be offered once a year in the spring semester. If a student is planning to graduate in the winter, she/he should arrange to take the capstone course during the spring semester prior to graduation.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: WOMEN'S STUDIES
CONCENTRATION: WOMEN IN GLOBAL PERSPECTIVE

CURRICULUM CREDITS

See page 90 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 The Study of Women's Studies	3

Students must take twelve of their credits of coursework from two clusters, Country or Culture Specific Courses (CS) 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/PHIL 202 Contemporary Moral Problems	
WOMS 205 Women in the Arts and Humanities	

- WOMS/PHIL 210 Women and Religion
- WOMS/MSST 215 Queer Sexual Imagery in the Visual Arts
- 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/FLIT 320 Varying Authors and Genres
- WOMS/FLIT 321 Topics: Chinese Literature in Translation (CS)
- WOMS/FLIT 322 Topics: Classical Literature in Translation (CS)
- WOMS 324 Feminism and Sexualities
- WOMS/FLIT 325 Topics: German Literature in Translation (CS)
- WOMS/FLIT 326 Topics: Hispanic Literature in Translation (CS)
- WOMS/FLIT 328 Topics: Japanese Literature in Translation (CS)
- WOMS/FLIT 329 Topics: Italian Literature in Translation (CS)
- WOMS/FLIT 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/FLIT 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/FLIT 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
- WOMS472/HIST 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 : 6
(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/LING 222 Language and Gender
- WOMS/ANTH 223 Food, Gender and Culture
- WOMS 240 Women and Violence
- WOMS/POSC 315 Third World Women in Politics (CC)
- WOMS/POSC 323 Introduction to Women and Politics
- WOMS 332 Women, Race and Ethnicity
- WOMS/PSYC 333 Psychology of Women
- WOMS/CRJU 350 Gender and Criminal Justice
- WOMS/ANTH 363 Women in Cross-Cultural Perspective (CC)
- WOMS/ECON 385 Women and the Economy
- WOMS/IFST/HESC 401 Foundations of Human Sexuality
- WOMS 402/POSC 401 Topics in Constitutional Law
- WOMS/SOCI 407 Sociology of Sex and Gender
- WOMS/IFST 409 Domestic Violence Services
- WOMS/POSC 413 Problems in American Government
- WOMS/SOCI/BAMS 415 Race, Class, and Gender
- WOMS/SOCI/BAMS 418 Race, Gender, and Poverty
- WOMS/IFST 430 Family Life Education
- WOMS/POSC 436 Politics and Literature
- WOMS/SOCI/GEOG/IFST 460 Women in International Development (CC)

Three credits in WOMS science-related courses chosen from the following list: 3

- WOMS/CSCC 233 Women, Biology, and Medicine
- WOMS/ANTH 305 The Evolution of Human Sex Roles and Reproduction
- WOMS/PHIL 327 Race, Gender, Science
- WOMS/CSCC/PHIL 389 Topics: Women and Health Issues

Three 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 3

The only major elective course that fulfills requirements for the concentration is:
WOMS 250 Topics in International Women's Studies (CS)

Women's Studies Capstone Course Requirement

Every senior Women's Studies major must enroll in the 3 credit capstone course, The Study of Women's Studies (WOMS 410). The capstone course will be offered once a year in the spring semester. If a student is planning to graduate in the winter, she/he should arrange to take the capstone course during the spring semester prior to graduation.

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 52 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:

	CREDITS
WOMS 201 Introduction to Women's Studies	3
Two courses in WOMS or cross-listed with WOMS at or above the 300-level .	6
Three elective courses in WOMS or cross-listed with WOMS	9

Note: 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.