

COLLEGE OF ARTS AND SCIENCE

Undergraduate Programs

- African Studies
- Anthropology
- Art
- Art Conservation
- Art History
- Biological Sciences
- Black American Studies
- Chemistry and Biochemistry
- Communication
- Comparative Literature
- Computer and Information Sciences
- Continental European Studies
- East Asian Studies
- Economics
- English
- Foreign Languages and Literatures
- Geography
- Geology
- History
- Irish Studies
- The College of Arts and Science represents a range of academic disciplines and contributes to the general and professional education of all undergraduate students at the University. The College offers major programs leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Arts in Liberal Studies, Bachelor of Fine Arts, and Bachelor of Music, as well as associate (two-year) degrees.

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

The intent of these requirements is to provide students appreciation of the materials and methodologies of each area and to foster an awareness that the works of an artist, historian, novelist, sociologist, and physicist may all be equally valid representations of reality. In the process, students develop a heightened understanding of all

- Jewish Studies
- Latin American Studies
- Legal Studies
- Liberal Studies
- Linguistics and Cognitive Science
- Mathematical Sciences
- Medical Humanities
- Medieval Studies
- Military Science
- Music
- Philosophy
- Physical Therapy
- Physics and Astronomy
- Political Science, International Relations, and Public Administration
- Psychology
- Religious Studies
- Sociology and Criminal Justice
- Theatre
- Women's Studies

aspects of human environment, intellectual curiosity, respect for fact, perception of the complexity of truth, skill in reasoning, and concern for integrity and logical consistency and acquire perceptions, skills, and attitudes to assist them in achieving a full and satisfying life

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

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

ADVISEMENT

5 tudents who have declared majors will be assigned an advisor who is a faculty member in the appropriate department. Undeclared students are assigned a member of the professional staff of the College of Arts and Science Advisement Center located at 102 Elliott Hall.

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All freshman students who have earned less than 28 credit hours are *required* to meet with their advisors during preregistration for the spring and fall semesters. All other students are strongly encouraged to meet at least once each semester with their academic advisors.

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

GENERAL DEGREE REQUIREMENTS INFORMATION

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

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

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

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

COURSE OF STUDY OPTIONS

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

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

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

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

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

Interdepartmental Major. Students whose goals and interests heavily involve materials from two departments but do not extend to all

aspects of each subject area may work out and submit for the approval of both departments and the dean of the college an interdepartmental proposal. More detailed instructions on the Interdepartmental Major are available in the Advisement Center and Dean's Office, but basically this major involves a minimum of 21 credits from each department with another nine credits that may be distributed in a number of ways. Examples of departments frequently combined in such programs are Communication and English or Political Science and Economics. With the approval of the other college or department, one area of the interdepartmental major may be from outside the College of Arts and Science.

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

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

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

BACHELOR OF ARTS

This degree, offered by all departments of the College of Arts and Science (see chart on p. vi), is awarded to those students who follow a broad course of study and is designed to provide a liberal education. For this degree, students must complete a minimum of 124 credits, composed of requirements for general education, required courses in a major, and elective courses. No more than 45 credits with the same departmental prefix (including cross-listed courses) may be counted toward the total required for the degree.

CORE CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

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

ENGL 110 will be taken by all students as freshmen, except by students who have otherwise demonstrated the skills taught in that course. A score of 710 or higher on the SAT-II Writing Test will be a satisfactory demonstration of basic writing skills ENGL 110 must be completed by the time a student has earned 60 credits Students who transfer into the College of Arts and Science with 45 credits or more must complete this requirement within two semesters.

MULTICULTURAL COURSE

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

BACHELOR OF ARTS

mathematics)

COLLEGE SKILL REQUIREMENTS

Writing: (minimum grade C-)

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content This course must be taken after completion of 60 credit hours. Appropriate writing courses are designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)

Mathematics: (one of the following) 0-4
MATH 113 Contemporary Mathematics
(designed for students who do not intend to continue the study of

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

MATH 115 or MATH 171 Pre-Calculus

(designed for students who intend to continue the study of mathematics)

Successful completion of any mathematics course at or above the 200level except MATH 251, MATH 252, or MATH 266

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

The math requirement must be completed by the time a student has

earned 60 credits. Students who transfer into the College of Arts and Science with 45 credits or more must complete this requirement within two semesters

Foreign Language:

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

0-12

COLLEGE BREADTH REQUIREMENTS

These requirements apply to all College of Arts and Science Bachelor of Arts degrees, except for the Bachelor of Arts in Mathematics Education, for which the number of credits in each group is different than below See page 122 for these requirements

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

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

Empirically based study of human beings and their environment Twelve credits of courses representing at least two departments or appropriate instructional units. GROUP D 13

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

A course may be applied toward more than one requirement (e.g., breadth and major requirements), but the credits are counted only once toward the total credits for graduation. If all but one course in a group has been taken in one department or program, a course cross-listed with that program will not satisfy the distribution requirement. For a complete list of the courses which fulfill breadth requirements, see pages 83-87.

BACHELOR OF SCIENCE, BACHELOR OF FINE ARTS, BACHELOR OF MUSIC

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

BACHELOR OF ARTS IN LIBERAL STUDIES

An option that offers a great deal of flexibility is the Bachelor of Arts in Liberal Studies (B.A.L.S.). The degree is designed for students who have need and justification for developing their own undergraduate major program within the 124-credit minimum.

This degree differs from the regular Bachelor of Arts degree in that it requires 60 credits at the 300-level or higher. The most significant difference from the more conventional degree, however, is that,

instead of a major, students pursue a sequence of courses of their choice that are consistent with their stated educational goals.

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

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

ASSOCIATE DEGREES

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

The Associate in Arts represents completion of the first half of a Bachelor of Arts program; the Associate in Science, the first half of a Bachelor of Science program. Specific requirements follow:

ASSOCIATE IN ARTS REQUIREMENTS

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

UNIVERSITY REQUIREMENTS

46.242	
Writina	

ENGL 110 (minimum grade C-)	3
or	
Exemption	0
Multicultural Course (see p. 57)	3
SKILL REQUIREMENTS	

Mathematics (one of the following) **MATH 113**

MATH 114

MATH 115

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

Proficiency Test

Foreign Language Elementary Level

Proficiency Test (O 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	ç
Group B. Culture and Institutions through Time	ς
Group C. Humans and Their Environment	ς
Group D Natural Phenomena	IC

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 reqirements must be taken for a regular grade, not

pass/fail.	
CURRICULUM CREDIT	ſS
UNIVERSITY REQUIREMENTS	
Writing (one of the following)	3
Exemption (0 credits awarded)	
Multicultural Course (see p 57)	3
SKILL REQUIREMENTS	
Mathematics (one of the following)	3
Foreign Language Required if there is a language requirement for the corresponding Bachelor of Science degree One of the following: Elementary Level or Proficiency Test (0 credits awarded)	1
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.	

ment 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	2

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DEAN'S SCHOLAR PROGRAM

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

LIBERAL ARTS/ENGINEERING

These five-year programs combine work in liberal arts and engineering and lead to the simultaneous awarding of a bachelor's degree in Arts and Science and a bachelor's degree in the appropriate engineering field. For complete details on these programs, see the Arts and Science-Engineering Curricula section, p. 160

TEACHER EDUCATION PROGRAMS

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

Each degree program in teacher education requires a certain minimum G.P.A. for enrollment in EDUC 400, Student Teaching, a course required for the degree. The appropriate teacher education program advisor (see list on p. 176) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

See Teacher Education Programs in the College of Human Resources, Education and Public Policy section of this catalog for more information, including a list of program advisors.

PRE-LAW

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

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

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

PREMEDICINE AND PREDENTISTRY

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

Preprofessional students usually begin their career-related course work in the first semester of the freshman year in order to complete the relevant courses before taking professional aptitude tests as juniors. Early academic advisement is essential to ensure that the preprofessional curriculum requirements are met. The Health Sciences Advisory and Evaluation Committee (Room 118 Wolf Hall) coordinates advisory services for all students preparing for admission to health-related professional schools. Call 831-2282 for information.

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

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

MEDICAL SCHOLARS PROGRAM

Designed and jointly sponsored by the University of Delaware and Jefferson Medical College in Philadelphia to educate men and women to deal with society's changing health care needs, this unique pre-professional program coordinates college, medical school, and residency years by integrating liberal arts, sciences, and professional studies across both institutions. Utilizing faculty and courses at the University of Delaware and Jefferson Medical College, the curriculum includes traditional studies in the life and health sciences, as well as courses in the humanities, ethics, social sciences, economics, political science, and health policy. Group discussion, problem-based instruction, practicums in clinical settings, hands-on science, computer and video disc technology are part of the program. Under this program, students receive a Bachelor of Arts in Liberal Studies degree and conditional acceptance to Jefferson Medical College as early as their sophomore year at Delaware, after successfully completing at least a year in an interest group. For more information, contact Senior Associate Dean Heyward Brock at (302) 831-8195.

FIELD STUDIES OPTION

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

COURSES APPROVED FOR SECOND WRITING REQUIREMENT

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

Anthropology (ANTH)

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

Tutorial in Archaeology ANTH 488 Tutorial in Physical Anthropology

Art History (ARTH)

ARTH 213	Art of the Northern Renaissance
ARTH 250	Rulers' Images: Augustus to Washington
ARTH 301	Research and Methodology in Art History

ARTH 302 Prints and Society

ARTH 310 The Role of the Artist in Society ARTH 402 Undergraduate Seminar: History of Art

ARTH 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

Seminar in Northern Baroque Art ARTH 417 ARTH 423 Seminar in Twentieth Century Art Seminar in Modern Architecture ARTH 429 Seminar in American Architecture **ARTH 431**

ARTH 435 Seminar in American Art

Arts and Science (ARSC)

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

Biology (BISC)

BISC 330 Biology of Vision

BISC 450 Proseminar in Environmental Science (cross-listed with GEOG 450 and GEOL 450)

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

Black American Studies (BAMS)

Race, Class and Gender **BAMS 415**

(cross-listed with SOCI 415 and WOMS 415)

BAMS 432 Psychological Perspectives on the Black American (cross-listed with PSYC 416)

Science and Culture (CSCC)

CSCC 355 Computers, Ethics and Society (cross-listed with SOCI 355) Literature and Science (cross-listed with ENGL 368)

History of Biological Ideas (cross-listed with HIST 385)

CSCC 368 CSCC 385 CSCC 411 Seminar in American History (cross-listed with HIST 411)

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

Chemistry (CHEM)

CHEM 610 History of Chemistry

Communication (COMM)

Communication Techniques COMM 311

COMM 418 Topics in Mass Communication: Broadcast Television History

COMM 438 Speech, Language and Communication COMM 452 Communication and Persuasion

COMM 485 Analysis of Face-to-Face Communication

Comparative Literature (CMLT)

CMLT 311 Twentieth-Century Literature I (cross-listed with FLLT 311) **CMIT 312** Twentieth-Century Literature II (cross-listed with FLLT 312)

CMIT 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) **CMIT 344** Theatre/Drama: 1900 to Present (cross-listed with THEA 344)

CMIT 480 Seminar (cross-listed with ENGL 480, and WOMS 480)

Criminal Justice (CRJU)

CRJU 312 Crime and Punishment in American History (cross-listed with HIST 312)

CRIU 428 Corporate Crime (cross-listed with SOCI 428) CRJU 456 Lawyers and Society (cross-listed with SOCI 456)

CRJU 460 Criminal Justice Policy

English (ENGL)

ENGL 200 Approaches to Literature ENGL 301 Expository Writing

ENICL 202	Advanced Composition	LICT 420	Saminar in Tuentiath Contury Latin American Povolutions
ENGL 302	Advanced Composition	HIST 430	Seminar in Twentieth-Century Latin American Revolutions
ENGL 307	News Writing and Editing	HIST 439	Women and Revolution in Africa (cross-listed with WOMS 439)
ENGL 309	Feature and Magazine Writing	HIST 440	Seminar in Africa Under Colonial Rule
ENGL 312	Written Communications in Business	HIST 459	Seminar in United States Urban History
ENGL 316	Honors: Peer Tutoring/Advanced Composition	HIST 471	Seminar in Medieval History (cross-listed with WOMS 472)
	(cross-listed with ARSC 316)	HIST 473	Seminar in Early Modern European History
ENGL 368			
	Literature and Science (cross-listed with CSCC 368)		(cross-listed with WOMS 473)
ENGL 409	Topics in Journalism	HIST 474	Seminar in English History
ENGL 410	Technical Writing	HIST 475	Seminar in Modern European History
ENGL 415	Writing in the Professions	HIST 477	Seminar in Latin American History
	Withing in the Professions		
ENGL 480	Seminar (cross-listed with CMLT 480 and WOMS 480)	HIST 479	Seminar in Asian History
Foreign Lai	nguages and Literatures (FLLT)	Music (MU	SC)
FLLT 311	Twentieth-Century Literature I (cross-listed with CMLT 311)	-	
		MUSC 302	Women in Music: An Alternate Survey (cross-listed with WOMS 302)
FLLT 312	Twentieth-Century Literature II (cross-listed with CMLT 312)	MUSC 311	Music History: 400 through 1600
FLLT 328	Topics in Japanese Literature in Translation	MUSC 312	Music History: 1600 through 1827
	(cross-listed with WOMS 328)		
FUT OOO		MUSC 313	Music History: 1825 to the Present
FLLT 329	Topics in Italian Literature in Translation	MUSC 345	History of Theatre: American Musical Theatre
	(cross-listed with WOMS 329)		(cross-listed with THEA 345)
FLLT 338	Light and Shadow – Japanese Films		Closs haled with Tries (040)
FLLT 380		Dhilasanh.	· /DLIII \
FLLI 300	Topics in Japanese Culture in Translation	Philosophy	(PAIL)
Geography	(CEOC)	PHIL 444	Medical Ethics (cross-listed with CSCC 444)
		PHIL 463	Ethical Theory
GEOG 346	Urban Cultural Geography		
	Method and Theory in Geography	PHIL 465	Senior Seminar
GEOG 450	Proseminar in Environmental Science	Political Sc	ience (POSC)
	(cross-listed with BISC 450 and GEOL 450)		
		POSC 334	Liberalism and Conservatism
Geology (G	SEOL)	POSC 380	Introduction to Law
		POSC 408	International Organizations
GEOL 450	Proseminar in Environmental Science	POSC 433	
	(cross-listed with BISC 450 and GEOG 450)		African Politics
		POSC 434	Political Thought I
History (HI	ST)	POSC 435	Political Thought II
HIST 130	Islāmic Near East: 600-1500	POSC 445	Human Rights and World Politics
			Toman Rights and World Foliacs
HIST 131	Islamic Near East: 1500 to the Present	POSC 448	Theories of International Relations
HIST 250	Roots of Contemporary Culture		
HIST 300	Women in American History (cross-listed with WOMS 300)	Psychology	y (PSYC)
HIST 301	The Worker in American Life	PSYC 405	Advanced Social Psychology
HIST 303	American Intellectual History	PSYC 414	Drugs and the Brain
HIST 304	American Intellectual History	PSYC 415	History and Systems of Psychology
HIST 305	Images of Race and Ethnicity in American Culture	PSYC 416	Psychological Perspectives on the Black American
HIST 307	The US in the Early National Period		(cross-listed with BAMS 432)
HIST 308	The U.S. in the Antebellum Period	PSYC 425	Topics in Child Psychology
		PSYC 445	Topics in Adolescent Psychology
HIST 309	U.S. Business and Political Economy	1310 443	lopics in Adolescent i sychology
HIST 312	Crime and Punishment in American History (cross-listed with CRJU 312)		
HIST 313	Early Twentieth-Century America	Sociology ((SOCI)
HIST 314	Twentieth-Century America	SOCI 305	Social Class and Inequality
HIST 318	Colonial America	SOCI 355	Computers, Ethics and Society (cross-listed with CSCC 355)
HIST 319	Revolutionary America	SOCI 415	Race, Class and Gender
HIST 323	The Old South		(cross-listed with BAMS 415 and WOMS 415)
	Associated Indicated Contact of 1015 to Decemb	SOCI 400	
HIST 328	American Industrial Society: 1815 to Present	SOCI 428	Corporate Crime (cross-listed with CRJU 428)
HIST 330	Peasants and Revolution in Africa	SOCI 456	Lawyers and Society (cross-listed with CRIU 456)
HIST 334	History of Mexico		
HIST 335	History of Colonial Latin America	Theatre (Th	IEA)
		•	•
HIST 341	Ancient Rome	THEA 341	Theatre/Drama: Classic/Medieval (cross-listed with CMLT 341)
HIST 344	Renaissance Europe	THEA 342	Theatre/Drama: Renaissance to 1700 (cross-listed with CMLT 342)
HIST 345	Europe in the Reformation Era: 1517 to 1648	THEA 343	Theatre/Drama: 1700 to 1900 (cross-listed with CMLT 343)
HIST 346	Age of Louis XIV	THEA 344	Theatre/Drama: 1900 to Present (cross-listed with CMLT 344)
HIST 347	The French Revolution and Napoleon	THEA 345	History of Theatre: American Musical Theatre
HIST 348	History of Spain: 1479 to Present		(cross-listed with MUSC 345)
HIST 349	Hispanic Societies: 1492 to Present	THEA 346	History of Theatre: The American Theatre
HIST 352	Contemporary European Society	THEA 410	Fundamentals of Dramaturgy
HIST 353	Modern Germany: 1770 to 1919		
HIST 354	Germany in 20th Century: 1914 to Present	University	(UNIV)
	Early Modern Intellectual History	UNIV 490	Honora Tutorial: Ulumanitias
HIST 355			Honors Tutorial: Humanities
HIST 356	Modern European Intellectual History	UNIV 491	Honors Tutorial: Natural/Social Science
HIST 359	Soviet Russia: 1917 to 1990		
HIST 361	European Business History: 1850 to Present	Women's S	itudies (WOMS)
HIST 368	Modern China: 1600-1920s	MOW2 300	Women in American History (cross-listed with HIST 300)
HIST 369	China Since 1900	WOMS 302	Women in Music: An Alternate Survey (cross-listed with MUSC 302)
HIST 370	History of Modern Japan		Topics in Japanese Literature in Translation (cross-listed with FLLT 328)
HIST 373	Modern Ireland: 1534 to Present		Topics in Italian Literature in Translation (cross-listed with FLLT 329)
HIST 377	Radicalism and Revolution: Islamic Movements in the	WOMS 409	Varieties of Modern Feminism (cross-listed with HIST 409)
	Modern Middle East		Race, Class and Gender
LICT 270		., 5,710 413	
HIST 378	Nationalism in the Modern Middle East	14/01/20 155	(cross-listed with BAMS 415 and SOCI 415)
HIST 380	History of the Arab-Israeli Conflict		Women and Revolution in Africa (cross-listed with HIST 439)
HIST 385	History of Biological Ideas (cross-listed with CSCC 385)	WOMS 472	Studies in Medieval History (cross-listed with HIST 471)
HIST 397			Studies in Early Modern European History
	History of South Africa	VV UIVIS 4/3	
HIST 409	Varieties of Modern Feminism (cross-listed with WOMS 409)		(cross-listed with HIST 473)
HIST 411	Seminar in American History	WOMS 480	Seminar (cross-listed with CMLT 480 and ENGL 480)
	(cross-listed with CSCC 411)		
	(Cross-naied with Cocc 411)		

COURSES APPROVED FOR BREADTH REQUIREMENTS

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

GROUP A

Anthropology (ANTH)		
ANTH 205	Anthropology and Human Nature	
ANTH 216	Introduction to Material Culture Studies (cross-listed with HIST 216)	
ANTH 227	American Culture	
ANTH 231	Personality and Culture	
ANTH 239	Arts and Crafts of Native North America	
ANTH 251	Introduction to the Ethnic Arts	
ANTH 338	Arts and Crafts of Native South America	
ANTH 360	Humanities Colloquium	

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

ANTH 457 Art (ART)

ART 31.5 Issues in Contemporary Art

Art History (ARTH)

ARIH 150	Monuments and Methods in the History of Art
ARTH 151	Myth, Religion, and Art
ARTH 152	Design and Expression in the Visual Arts
ARTH 161	Art in East and West
ARTH 162	History of Architecture
ARTH 237	Art of Tibet
ARTH 457	Survey of African Art (cross-listed with ANTH 457)
	•

Science and Culture (CSCC)

CSCC 241	Ethical Issues in Health Care (cross-listed with PHIL 241)
CSCC 246	Philosophical Perspectives of Medicine (cross-listed with PHIL 246)
CSCC 368	Literature and Science (cross-listed with ENGL 368)
CSCC 369	Literature and Medicine (cross-listed with ENGL 369)
CSCC 444	Medical Ethics (cross-listed with PHIL 444)
	,

Comparative Literature (CMLT)

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

English (EN	IGL)
ENGL 200	Approaches to Literature
ENGL 202	Biblical and Classical Literature
	(cross-listed with CMLT 202 and FLLT 202)
ENGL 204	American Literature
ENGL 207	Introduction to Poetry
ENGL 208	Introduction to Drama (cross-listed with CMLT 218 and WOMS 208)
ENGL 209	Introduction to the Novel
	(cross-listed with CMLT 219 and WOMS 209)
ENGL 210	Short Story
ENGL 217	Introduction to Film (cross-listed with CMLT 217)
ENGL 314	Introduction to Folklore and Folklife (cross-listed with CMLT 314)
ENGL 315	Ballad and Folksong
ENGL 320	The Bible as Literature
ENGL 324	Shakespeare
ENGL 368	Literature and Science (cross-listed with CSCC 368)
ENGL 369	Literature and Medicine (cross-listed with CSCC 369)
ENGL 380	Women Writers (cross-listed with IWST 380 and WOMS 380)

Foreign Languages and Literatures (FLLT) FLIT 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
FLLT 322	(cross-listed with CMLT 320 and WOMS 320) Topics: Classical Literature in Translation (cross-listed with CMLT 322)
FLLT 324	Topics: French Literature in Translation (cross-listed with WOMS 324)
FLLT 325 FLLT 326	Topics: German Literature in Translation (cross-listed with WOMS 325) Topics: Hispanic Literature in Translation (cross-listed with WOMS 326)
FLLT 327	Topics: Russian Literature in Translation
FLLT 328 FLLT 329	Topics: Japanese Literature in Translation (cross-listed with WOMS 328) Topics: Italian Literature in Translation
French (FRI	•
FREN 456	French Theater Workshop
Geography	(GEOG)
GEOG 203 GEOG 345	
GEOG 345 GEOG 346	Cultural Geography Urban Cultural Geography
German (G	RMN)
GRMN 211	German Reading and Composition: Short Fiction
History /HI	(to be taught in German)
History (HI HIST 216	Introduction to Material Culture Studies (cross-listed with ANTH 216)
Jewish Stu	
JWST 380	Women Writers (cross-listed with ENGL 380 and WOMS 380)
Linguistics	•
LING 301	Dictionaries
Music (MUS MUSC 101	SC) Appreciation of Music
MUSC 102	Appreciation of Music
MUSC 103 MUSC 104	Introduction to Opera Introduction to Opera II
MUSC 105	Fundamentals of Music I
MUSC 106 MUSC 195	Fundamentals of Music II Harmony I
MUSC 196	Harmony II
MUSC 197 MUSC 209	Jazz Harmony History of Spanish Music
Philosophy	
PHIL 100	Philosophies of Life (cross-listed with WOMS 100)
PHIL 101 PHIL 102	Great Western Philosophers Introduction to Philosophy
PHIL 201	Social and Political Philosophy
PHIL 202 PHIL 204	Contemporary Moral Problems (cross-listed with WOMS 203) World Religions
PHIL 210	Women and Religion (cross-listed with WOMS 210)
PHIL 216 PHIL 241	Introduction to Feminist Theory (cross-listed with WOMS 216) Ethical Issues in Health Care (cross-listed with CSCC 241)
PHIL 244	Philosophy of Art
PHIL 246 PHIL 317	Philosophical Perspectives of Medicine (cross-listed with CSCC 246) American Philosophy
PHIL 444	Medical Ethics (cross-listed with CSCC 444)
	ence (POSC)
POSC 285 POSC 333	Currents in Political Theory Communism, Fascism, and Democracy
Theatre (TH	
THEA 102	Introduction to Performance
THEA 104 THEA 106	Introduction to Theatre and Drama The Theatrical Experience Abroad
THEA 200	Introduction to Theatre Production
THEA 202 THEA 203	Introduction to Theatre Design Introduction to Costuming
THEA 206	Introduction to Dance
THEA 410	Fundamentals of Dramaturgy
University (UNIV) Honors Tutorial: Humanities
	tudies (WOMS) Philosophies of Life (cross-listed with PHIL 100)
WOMS 203	Contemporary Moral Problems (cross-listed with PHIL 202)
WOMS 204 WOMS 205	Gender and Knowledge Women in the Arts and Humanities Introduction to Program (cross listed with CMIT 218 and ENGL 208)
MOME 200	Introduction to Drawn James listed with CANT 219 and ENGL 2001

WOMS 208 Introduction to Drama (cross-listed with CMLT 218 and ENGL 208)

WOMS 209 Introduction to the Novel (cross-listed with CMLT 219 and ENGL 209) WOMS 210 Women and Religion (cross-listed with PHIL 210)
WOMS 216 Introduction to Feminist Theory (cross-listed with PHIL 216)

WOMS 320	Varying Authors and Genres (cross-listed with CMLT 320 and FLLT 320)	Economics	(ECON)
	French Literature in Translation (cross-listed with FLLT 324)		Economic History of Colonial America
	German Literature in Translation (cross-listed with FLLT 325)		Economic History of the U S
	Hispanic Literature in Translation (cross-listed with FLLT 326)		Economic History of France
WOMS 328	Topics: Japanese Literature in Translation (cross-listed with FLLT 328)		•
WOMS 380	Women Writers (cross-listed with ENGL 380 and JWST 380)	English (EN	IGL)
,, ,,,,,,	The state of the s	ENGL 205	British Literature I
		ENGL 206	British Literature II
	GROUP B	ENGL 211	Great Writers of the Western World I (cross-listed with CMLT 207)
Anthropolog		ENGL 212	Great Writers of the Western World II (cross-listed with CMLT 208)
		ENGL 317	Film History (cross-listed with CMLT 317)
	Introduction to Social and Cultural Anthropology	ENGL 321	Medieval Literature and Culture (cross-listed with CMLT 321)
ANTH 105	Introduction to Historical Archaeology	ENGL 340	American Literature to the Civil War
ANTH 228	Peoples and Cultures of the Southwest	ENGL 341	American Literature: Civil War to World War II
ANTH 260	Sociocultural History of Africa	ENGL 344	African American Literature I (cross-listed with BAMS 313)
ANTH 261	Peoples and Cultures of the Middle East	ENGL 345	African American Literature II
ANTH 265	High Civilizations of the Americas		
ANTH 278	Historic Cultures of the Mid-Atlantic Region (cross-listed with HIST 278)	Foreign Lai	nguages and Literatures (FLLT)
ANTH 322	The City in American Culture (cross-listed with HIST 322)	FLLT 330	Varying Authors, Themes, and Movements
ANTH 323	Prehistory of South America		(cross-listed with CMLT 330, CSCC 330 and WOMS 330)
ANTH 327	Peoples of the Caribbean	FLLT 375	Topics: Russian and Soviet Culture in Translation
ANTH 375	Peoples and Cultures of Modern Latin America	FLLT 380	Topics: Japanese Culture in Translation
Aut Wistows	/ADTUI	F	·
Art History		French (FRI	
ARTH 153	Introduction to Art History	FREN 301	Introduction to French Literature: Prose (to be taught in French)
	Introduction to Art History II	FREN 302	Introduction to French Literature: Poetry and Theatre
	Asian Art		(to be taught in French)
ARTH 207	Origins of Art	FREN 325	French Civilization I (to be taught in French)
ARTH 208	Greek and Roman Art	FREN 326	French Civilization II (to be taught in French)
ARTH 209	Early Medieval Art 200-1000 A.D.	Geography	(GEOG)
ARTH 210	Later Medieval Art 1000-1400 A D		· ·
ARTH 217	Early Renaissance Art	GEOG 225	Historical Geography of the United States
ARTH 218	High Renaissance and Mannerist Art	German (G	RMN)
ARTH 220	Italian Renaissance Architecture	•	Introduction to German Literature I (to be taught in German)
ARTH 222	Baroque Art		Introduction to German Literature II (to be taught in German)
ARTH 223	Baroque and Rococo Architecture and Urbanism		
	Eighteenth Century Art	GRAIN 222	German Civilization and Culture (to be taught in German)
	Modern Art I	History (HI	ST)
	Modern Art II	HIST 101	Western Civilization to 1648
	American Art: 1607-1865	HIST 102	Western Civilization: 1648 to Present
	American Art: 1865-Present	HIST 103	World History to 1648
	Art of China	HIST 104	World History: 1648 to Present
	Art of Japan	HIST 130	Islamic Near East: 600-1500
	Art of India	HIST 131	Islamic Near East: 1500 to Present
	The Arts of Islam	HIST 134	History of Africa (cross-listed with BAMS 134)
	The American Home	HIST 135	Introduction to Latin American History
	Rulers' Images from Augustus to George Washington	HIST 137	East Asian Civilization: China
	Prints and Society	HIST 138	East Asian Civilization: Japan
	Northern Baroque Art	HIST 205	United States History
	Italian Baroque: Metaphor and Marvel	HIST 206	United States History
	Modern Architecture I: 1750-1900	HIST 210	
	Modern Architecture II: 20th Century		War and Society The American Civil Bights Mayoment Jarons listed with BAAAS 2201
	Role of the Artist in Society	HIST 220	The American Civil Rights Movement (cross-listed with BAMS 220)
		HIST 270	History of Modern Asia
ARTH 318	History of Photography	HIST 278	Historic Cultures of the Mid-Atlantic Region
Black Ameri	ican Studies (BAMS)	LUCT OOO	(cross-listed with ANTH 278)
	History of Africa (cross-listed with HIST 134)	HIST 280	Science and Civilization
		HIST 300	Women in American History (cross-listed with WOMS 300)
	The American Civil Rights Movement (cross-listed with HIST 220) History of Black America to the Civil War (cross-listed with HIST 325)	HIST 303	American Intellectual History
		HIST 304	American Intellectual History
	History of Black America Since the Civil War (cross-listed with HIST 326)	HIST 306	History of American Foreign Policy
BAMS 313	African American Literature I (cross-listed with ENGL 344)	HIST 315	Postwar America: The United States Since 1945
Science and	Culture (CSCC)	HIST 318	Colonial America
	Varying Authors, Themes and Movements	HIST 319	Revolutionary America
0000	(cross-listed with CMLT 330, FLLT 330 and WOMS 330)	HIST 322	The City in American Culture (cross-listed with ANTH 322)
CSCC 382	History of Western Medicine (cross-listed with HIST 382)	HIST 325	History of Black America to the Civil War
			(cross-listed with BAMS 304)
Comparativ	e Literature (CMLT)	HIST 326	History of Black America Since the Civil War
CMLT 207	Great Writers of the Western World I (cross-listed with ENGL 211)		(cross-listed with BAMS 306)
	Great Writers of the Western World II (cross-listed with ENGL 212)	HIST 330	Peasants and Revolution in Africa
	Film History (cross-listed with ENGL 317)	HIST 340	Ancient Near East and Greece
	Medieval Literature and Culture (cross-listed with ENGL 321)	HIST 341	Ancient Rome
	Varying Authors, Themes, and Movements	HIST 344	Renaissance Europe
	(cross-listed with CSCC 330, FLLT 330 and WOMS 330)	HIST 345	Europe in the Reformation Era: 1517 to 1648
CMIT 341	Theatre/Drama: Classic/Medieval (cross-listed with THEA 341)	HIST 348	History of Spain: 1479 to Present
	Theatre/Drama: Renaissance to 1700 (cross-listed with THEA 341)	HIST 349	Hispanic Societies: 1492 to Present
	Theatre/Drama: 1700 to 1900 (cross-listed with THEA 342)	HIST 353	Modern Germany: 1770 to 1919
	Theatre/Drama: 1900 to Present (cross-listed with THEA 344)	HIST 354	Germany in 20th Century: 1914 to Present
	·	HIST 355	Early Modern Intellectual History
Consumer S	tudies (CNST)	HIST 356	Modern European Intellectual History
	Costume History Before 1700	HIST 359	Soviet Russia: 1917 to 1990
	Costume Design and Production Since 1700	HIST 368	Modern China: 1600-1920s
	Dress and Culture	HIST 369	Ching Since 1900

HIST 370 HIST 371	History of Modern Japan Postwar Japan		GROUP C
HIST 372	Popular Culture in Urban Japan	Anthropolog	
HIST 373 HIST 374	Modern Ireland: 1534-Present History of England to 1715	ANTH 103	Introduction to Prehistoric Archaeology (duplicate credit with ANTH 104 in Group D)
HIST 375	History of England: 1715 to Present	ANTH 222	Technology and Culture
HIST 377	Radicalism and Revolution: Islamic Movements in the Modern Middle East	ANTH 225 ANTH 229	Peasant Societies Indians of North America
HIST 378	Nationalism in the Modern Middle East	ANTH 230	Peoples of the World
HIST 380 HIST 382	History of the Arab-Israeli Conflict		Applied Anthropology Hunting Societies
HIST 383	History of Western Medicine (cross-listed with CSCC 382) History of Science and Medicine I	ANTH 320	Prehistory of North America
HIST 384	History of Science and Medicine II	anth 337	South American Indians
HIST 387 HIST 388	Technology in Western Civilization I Technology in Western Civilization II		Culture of Food Production and Economic Development Ecological Anthropology
HIST 393	History of Modern Vietnam		Peoples and Cultures of Mexico and Central America
HIST 397 HIST 439	History of South Africa	Arts and Sci	ience (ARSC)
HIST 474	Women and Revolution in Africa (cross-listed with WOMS 439) Seminar in English History		Shaping of the Modern World
HIST 479	Seminar in Asian History	Black Ameri	ican Studies (BAMS)
Italian (ITA	L)		Introduction to Black American Studies
ITAL 310	Survey of Italian Literature (to be taught in Italian)		Urban Communities (cross-listed with SOCI 204) Contemporary Afro-American Issues
ITAL 311 ITAL 325	Survey of Italian Literature (to be taught in Italian) Italian Civilization and Culture		Afro-Caribbean Life and Culture
Music (MU		BAMS 361	Race, Power, and Social Conflict (cross-listed with SOCI 361)
MUSC 107	History of Rock	Science and	Culture (CSCC)
MUSC 205	Music of the Non-Western World		Comparative Medical Systems
MUSC 206 MUSC 207	Music of China, Korea and Japan History of Jazz		Sociology of Health Care (cross-listed with SOCI 310) Hospitals (cross-listed with SOCI 311)
MUSC 210	Music of Britain		cience (CGSC)
MUSC 212	History of Liturgy and Hymns	•	Introduction to Cognitive Science
MUSC 302	Women in Music: An Alternate Survey (cross-listed with WOMS 302)	CGSC 330	Philosophy of the Mind (cross-listed with PHIL 330)
MUSC 311	Music History: to 1600	Communica	tion (COMM)
MUSC 312 MUSC 313	Music History: 1600 through 1827 Music History: 1825 to the Present		Introduction to Human Communication Systems
MUSC 345	History of Theatre: American Musical Theatre		Mass Communication and Culture The Development of Verbal Communication
	(cross-listed with THEA 345)		Communication and Interpersonal Behavior
Philosophy		Consumer S	itudies (CNST)
PHIL 301 PHIL 302	Ancient Philosophy Medieval Philosophy		Consumer Economics
PHIL 303	Modern Philosophy	Criminal Jus	stice (CRJU)
PHIL 309 PHIL 310	Indian Religion and Philosophy Chinese Religion and Philosophy		Introduction to Criminal Justice
	ience (POSC)		Illicit Drug Use in America Problems of Law Enforcement
POSC 211	Politics in Developing Nations		Problems of Criminal Judiciary
POSC 311	Politics of Developing Nations		Problems of Corrections
POSC 387	American Political Thought		Sociology of the Law (cross-listed with SOCI 345)
Russian (RU		Economics (· · · · · · · · · · · · · · · · · · ·
RUSS 310 RUSS 312	Introduction to Russian Literature I (to be taught in Russian) Introduction to Russian Literature II (to be taught in Russian)		Economic Issues and Policies Introductory Microeconomics: Prices and Markets
RUSS 325	Russian Civilization and Culture (to be taught in Russian)	ECON 152	Introductory Macroeconomics: National Economy
Spanish (SI	PAN)	ECON 305 ECON 306	Comparative Economic Systems Economic Theory of Politics (cross-listed with POSC 306)
SPAN 301	Survey of Spanish Literature (to be taught in Spanish)	ECON 311	Economics of Developing Countries
SPAN 302 SPAN 303	Survey of Spanish Literature (to be taught in Spanish) Survey of Spanish-American Literature (to be taught in Spanish)	ECON 332	Economics of Government Spending and Taxation
SPAN 304	Survey of Spanish-American Literature (to be taught in Spanish)		International Economics Industrial Policies of France
SPAN 325 SPAN 326	Spanish Civilization and Culture (to be taught in Spanish) Latin American Civilization and Culture (to be taught in Spanish)	ECON 360	Government Regulation of Business
	, , ,		Economics of Human Resources Urban Economics
Theatre (TH THEA 341	Theatre/Drama: Classic/Medieval (cross-listed with CMLT 341)	English (ENC	
THEA 342	Theatre/Drama: Renaissance to 1700 (cross-listed with CMLT 342)		English Linguistics (cross-listed with LING 390)
THEA 343	Theatre/Drama: 1700 to 1900 (cross-listed with CMLT 343)	Geography	
THEA 344 THEA 345	Theatre/Drama: 1900 to Present (cross-listed with CMLT 344) History of Theatre: American Musical Theatre	•	Human Geography
	(cross-listed with MUSC 345)	GEOG 120	World Regional Geography
THEA 346	History of Theatre: The American Theatre		Economic Geography Humans and the Earth Ecosystem
	tudies (WOMS)	GEOG 235	Conservation of Natural Resources
	Women in American History (cross-listed with HIST 300) Women in Music: An Alternate Survey (cross-listed with MUSC 302)		Environment and Behavior Water and Society
	Varying Authors, Themes, and Movements	History (HIS	•
/V/OVY 430	(cross-listed with CMIT 330, CSCC 330 and FLIT 330)	• •	American Labor before Industrialization
YY UNIO 439	Women and Revolution in Africa (cross-listed with HIST 439)		, mentan assor serere indentional

Linguistics	: (LING)	BISC 171	Microbiology in Modern Society
LING 101	Introduction to Linguistics I	BISC 195	Biological Evolution
LING 102	Language, Mind and Society	BISC 207	Introductory Biology I (Both BISC 103 and BISC 207
LING 203	Languages of the World		cannot be used to fulfill Group D)
LING 222	Language and Gender (cross-listed with WOMS 222)	BISC 208	Introductory Biology II
LING 265	Studies in Language	Chemistry	(CHEM)
LING 390	English Linguistics (cross-listed with ENGL 390)	CHEM 100	
Music (MU	ISC)	CHEM 100	
MUSC 309		CHEM 102	
	•	CHEM 103	
Philosoph	y (PHIL)	CHEM 104	
PHIL 330	Philosophy of the Mind (cross-listed with CGSC 330)	CHEM 105	
Political Se	cience (POSC)	CHEM 111	
POSC 105	The American Political System	CHEM 112	General Chemistry (duplicate credit with CHEM 102, 104)
POSC 106	Introduction to Political Science: Issues	Cognitive	Science (CGSC)
POSC 220	Introduction to Public Policy	-	Brain and Behavior (cross-listed with PSYC 314)
POSC 240	Introduction to International Relations		
POSC 270	Comparative Politics	Computer	and Information Sciences (CISC)
POSC 306	Economic Theory of Politics (cross-listed with ECON 306)	CISC 101	Computers and Information Systems
POSC 343	Society, Politics, and Health Care (cross-listed with SOCI 343)	CISC 105	General Computer Science
Psycholog	y (PSYC)	CISC 106	General Computer Science for Engineers
PSYC 201	General Psychology	Entomolog	av (ENTO)
PSYC 301	Personality	ENTO 201	
PSYC 303	Introduction to Social Psychology	ENTO 205	
PSYC 325	Child Psychology	ENTO 305	
PSYC 333	Psychology of Women (cross-listed with WOMS 333)		0,
Sociology	(SOCI)	Geograph	
SOCI 201	Introduction to Sociology		Physical Geography: Climatic Processes
SOCI 202	Social Deviance	GEOG 106	
SOCI 203	The Individual and Society	GEOG 152	
SOCI 204	Urban Communities (cross-listed with BAMS 204)		Meteorology Computer Methods in Geography
SOCI 206	Women and Work (cross-listed with WOMS 206)	0100 230	Computer Memods in Geography
SOCI 209	Social Problems	Geology (GEOL)
SOCI 210	Population Problems	GEOL 105	General Geology (duplicate credit with GEOL 107)
SOCI 211	Men, Conflict, and Social Change (cross-listed with WOMS 211)	GEOL 115	General Geology Laboratory (duplicate credit with GEOL 107)
SOCI 308 SOCI 310	The Family Social and of Health Care Jorgen listed with CSCC 210)	GEOL 106	General Geology
SOCI 311	Sociology of Health Care (cross-listed with CSCC 310) Hospitals (cross-listed with CSCC 311)	GEOL 116	General Geology Laboratory
SOCI 322	Crowds, Cults, and Revolutions	GEOL 107 GEOL 109	General Geology I (duplicate credit with GEOL 105/115)
SOCI 343	Society, Politics, and Health Care (cross-listed with POSC 343)	GEOL 110	Planets, Asteroids and Impacts Evolution and Extinction (duplicate credit with GEOL 144)
SOCI 345	Sociology of Law (cross-listed with CRJU 345)	GEOL 144	Evolution and Earth History (duplicate credit with GEOL 110)
SOCI 361	Race, Power, and Social Conflict (cross-listed with BAMS 361)	GEOL 233	The Ice Ages and Human Chronology
SOCI 362	Sociology of Mass Communication	GEOL 234	Earth Resources and Ecology
SOCI 407	Sociology of Sex and Gender (cross-listed with WOMS 407)	GEOL 243	Rocks and Minerals
Women's S	Studies (WOMS)	GEOL 245	Volcanoes and Earthquakes
	Introduction to Women's Studies	Linguistics	: /LING)
	2 Introduction to International Women's Studies	LING 253	
	Women and Work (cross-listed with SOCI 206)		Laboratory Phonetics
WOMS 211	Men, Conflict, and Social Change (cross-listed with SOCI 211)	Marine St	udies (MAST)
	Language and Gender (cross-listed with LING 222)	MAST 200	The Oceans
	Psychology of Women (cross-listed with PSYC 333)	Mathemat	rical Sciences (MATH)
WOMS 40/	Sociology of Sex and Gender (cross-listed with SOCI 407)	MATH 210	Discrete Mathematics (duplicate credit with MATH 230)
		MATH 221	Calculus I (duplicate credit with MATH 241)
	GROUP D	MATH 230	Finite Mathematics with Applications (duplicate credit with MATH 210)
Anthropole	ogy (ANTH)	MATH 241	Analytic Geometry and Calculus A (duplicate credit with MATH 221)
ANTH 102	Introduction to Biological Anthropology		itudies (MSST)
ANTIT TOZ	(duplicate credit with ANTH 104)		
ANTH 104	Introduction to Archaeology and Biological Anthropology (duplicate	MSST 205	Science and the Detection of Art Forgeries (cross-listed with ARTH 205)
7111111111	credit with ANTH 102, and with ANTH 103 in Group C)	Nutrition o	and Dietetics (NTDT)
ANTH 202	Human Evolution and the Fossil Record	NTDT 200	Nutrition Concepts
Aut History			·
Art History		Philosophy	
ARTH 205	Science and the Detection of Art Forgeries (cross-listed with MSST 205)	PHIL 205	Logic (PHIL 351 alternate Duplicate credit if taken after PHIL 351)
Biology (Bi	ISC)	PHIL 207	Inductive Logic and Scientific Method
BISC 103	General Biology (Both BISC 103 and BISC 207 cannot be used to	PHIL 211 PHIL 351	Basic Decision Theory Advanced Logic (alternate to PHIL 205)
	fulfill Group D. Duplicate credit if taken after BISC 207)		,
BISC 113	General Biology Laboratory	Physics (P	HYS)
BISC 104	Neurobiology of the Brain	PHYS 104	Elementary Physics
BISC 105	Human Heredity and Development		(duplicate credit with PHYS 201, PHYS 207, and SCEN 101)
BISC 115	Human Heredity and Development Laboratory	PHYS 133	Introduction to Astronomy
BISC 106	Elementary Human Physiology	PHYS 140	Great Concepts of Physics
BISC 116 BISC 107	Elementary Human Physiology Laboratory Elementary Evolutionary Ecology	PHYS 141	Light, Lasers, Cameras, Perception
BISC 117	Elementary Evolutionary Ecology Elementary Evolutionary Ecology Laboratory	PHYS 143	Energy, Technology, and Society
BISC 110	Viruses, Genes, and Cancer	PHYS 144	Concepts of the Universe (duplicate credit if taken after PHYS 133 or 134)
BISC 152	Biology of Human Sexuality	PHYS 145	Quasars, Black Holes, and the Universe
	,		,,

Plant Science (PLSC)		
	(duplicate credit with PHYS 202 and SCEN 102)	
PHYS 208	Fundamentals of Physics II	
PHYS 207	Fundamentals of Physics I (duplicate credit with PHYS 104, 201, and SCEN 101)	
	(duplicate credit with PHYS 208 and SCEN 102)	
PHYS 202	Introductory Physics II	
	(duplicate credit with PHYS 104, 207, and SCEN 101)	
PHYS 201	Introductory Physics I	
PHYS 199	Exploring Physics Concepts: I	
PHYS 147	Atoms for Everyone	
PHYS 146	Quarks, Gluons, and the Big Bang	

PLSC 101 Botany I PISC 204

Introduction to Soil Science

Psychology (PSYC)

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

Science (SCEN)

Physical Science (duplicate credit with PHYS 104, 201, and 207) **SCEN 101** Physical Science (duplicate credit with PHYS 202 and 208) **SCEN 102 SCEN 103** Concepts of Science and Technology

Statistics (STAT)

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

MAJORS AND MINORS

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

AFRICAN STUDIES

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

Telephone: (302) 831-2189

http://www.udel.edu/AreaStudies/africa.html

REQUIREMENTS FOR THE MINOR IN AFRICAN STUDIES

The minor requires eighteen credit hours drawn from the list of courses below. Twelve credit hours must be from courses that deal with Africa proper. Students must consult with the program coordinator on making their selection of courses. It should be noted that not all courses are offered every semester.

o creans in	Anthropology, selected from the following:
ANTH 260	Socio Cultural History of Africa

ANTH 370	Socio Cultural History of Africa 3 Peoples of Africa 3 Anthropology of Slavery 3 Culture of Food Production and Economic Development 3 57 Survey of African Art 3
6 credits in	History, selected from the following:
HIST 134	History of Africa 3
HIST 330	Peasants and Revolution in Africa
	Africa Since 1960 3
HIST 395	Pan Africanism
HIST 397	History of South Africa 3
HIST 439	Women and Revolution in Africa
HIST 440	Africa Under Colonial Rule 3
3 credits fro	m Black American Studies, selected from the following:
BAMS/HIST 3	31 History of the Caribbean I
HIST 332	History of the Caribbean II
BAMS 367	Africanisms in America
3 credits fro	m other areas, which may include:
POSC 433	African Political Systems
	439 Southern African Politics

ANTHROPOLOGY

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

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

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

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

Archaeological Anthropology courses...

ANTH 486

DEGREE: BACHELOR OF ARTS MAJOR: ANTHROPOLOGY	
CURRICULUM	CREDITS
See page 78 for University and College requirements.	
MAJOR REQUIREMENTS	
Social and Cultural Anthropology courses Biological Anthropology courses Archaeological Anthropology courses ANTH 486 Tutorial in Social and Cultural Anthropology ANTH 487 Tutorial in Archaeology	6
ANTH 488 Tutorial in Physical Anthropology Anthropology course A minimum of six credits of ANTH must be taken at the 200-level and a minimum of twelve credits of ANTH must be taken at the 300-level	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: ANTHROPOLOGY EDUCATION	
CURRICULUM	CREDITS
See page 78 for University and College requirements.	
MAJOR REQUIREMENTS	
Social and Cultural Anthropology courses Biological Anthropology courses	

Tutorial in Social and Cultural Anthropology

	Tutorial in Archaeology	3
or ANTH 488 Anthropology	Tutorial in Physical Anthropology course	3
	six credits of ANTH must be taken at the 200-level and a velve credits of ANTH must be taken at the 300-level.	
Geography co	urse	3
Political Scien	ce course	3
PSYC 201	rse	3
EDUC 201 EDUC 304 EDUC 305 HIST 491	Diversity in the Classroom Educational Psychology – Social Aspects Educational Psychology – Cognitive Aspects Planning a Course of Instruction.	3 3
HIST 493 EDUC 420 EDUC 400	Seminar: Problems in Teaching History and Social Sciences Reading in the Content Areas Student Teaching	3 1
a g.p.a of 3.0 should consult 176) to obtain	to student teach, Anthropology Education majors must have D in their major and an overall g.p.a. of 2.75. Students the teacher education program coordinator (see list on p. the student teaching application and other information con- treaching policies.	

HONOPS RACHELOP OF APTS:

HONORS BACHELOR OF ARTS: ANTHROPOLOGY OR ANTHROPOLOGY EDUCATION

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

CREDITS TO TOTAL A MINIMUM OF 124

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

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

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

INTERDEPARTMENTAL MAJORS

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

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

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

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

REQUIREMENTS FOR THE MINOR IN ANTHROPOLOGY

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

ART

The Department of Art is a studio-oriented department offering a wide range of visual arts activities and subject areas. The department offers undergraduate majors in Art (Bachelor of Arts), Fine Arts (Bachelor of Fine Arts), and Visual Communications (Bachelor of Fine Arts), as well as a minor in art. The B.A. degree requires 36 credit hours minimum of art courses and 45 credit hours maximum. The B.F.A. degree requires 69 credit hours minimum of art courses and 80 credit hours maximum. All grades in art courses must be C- or better. Admission to the B.F.A. is contingent upon submission of a portfolio of slides and/or original work after completion of the freshman year, a minimum of 12 credits of foundation courses and a 2.66 GPA in studio art courses. A limited number of students are admitted to the B.F.A. degree programs.

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

The art or fine arts major may specialize in ceramics, illustration, painting, photography, printmaking, or sculpture. The visual communications major may specialize in advertising design, applied photography, or graphic design. The courses of study are designed to prepare the student for professional practice in the student's chosen area of specialization.

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

Telephone: (302) 831-2244

http://Seurat.art.udel.edu/ArtDeptHP.html

DEGREE: BACHELOR OF ARTS MAJOR: ART CURRICULUM **CREDITS** See page 78 for University and College requirements. MAJOR REQUIREMENTS Foundation Drawing I ART 110 ART 111 ART 112 Foundation 2D Design Foundation Drawing II Foundation 3D Design Foundation Colloquium (fall semester) ART 113 ART 114 Foundation Colloquium (spring semester) ART 115 ART 114/115 Required fall and spring of freshman year Art Discipline 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, illustration, painting, photography, printmaking, sculpture) Art Flectives Courses from other department disciplines outside of chosen art discipline ART 315 Issues in Contemporary Art

Art History 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
DEGREE: BACHELOR OF FINE ARTS MAJOR: FINE ARTS
CURRICULUM CREDIT
UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C-)
COLLEGE REQUIREMENTS
Writing: (minimum grade C-) A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)
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. (O credits awarded)
Breadth Requirements (See page 83)
Group A
Group B
Group C
Group D
MAJOR REQUIREMENTS
NOTE: 69 credit hours minimum Art Department courses; 80 credit hours maximum Art Department courses; all grades in art must be C- or better
ART 110 Foundation Drawing I 3 ART 111 Foundation 2D Design 3
ART 112 Foundation Drawing II
ART 113 Foundation 3D Design 3
ART 114 Foundation Colloquium (fall semester) 0 ART 115 Foundation Colloquium (spring semester) 0
ART 114/115 Required fall and spring of freshman year
Art Discipline
Art Studies
Art Electives
ART 315 Issues in Contemporary Art 3 ART 416 Professional Practices 3 ART 417 BFA Exhibition 0
Art History courses9
ELECTIVES After required courses are completed sufficient elective credits must be
taken to meet the minimum credit requirement for the degree.

DEGREE: BACHELOR OF FINE ARTS MAJOR: VISUAL COMMUNICATIONS
CURRICULUM CREDITS
UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C-) 3 Three credits in an approved course or courses stressing 3 multicultural, ethnic, and/or gender-related content (see p. 57).
COLLEGE REQUIREMENTS
Writing: (minimum grade C-)
Mathematics (one of the following)
Breadth Requirements (See page 83)
Group A
Group B
Group C
Group D
MAJOR REQUIREMENTS
NOTE: 69 credit hours minimum Art Department courses; 80 credit hours maximum Art Department courses; all grades in art must be C or better.
ART 110 Foundation Drawing I. 3 ART 111 Foundation 2D Design. 3 ART 112 Foundation Drawing II. 3 ART 113 Foundation 3D Design. 3 ART 114 Foundation Colloquium (fall semester). 0 ART 115 Foundation Colloquium (spring semester). 0 ART 114/115 Required fall and spring of freshman year
Art Discipline
Art Studies
Art Electives 9 ART 315 Issues in Contemporary Art 3 ART 408 Internship 3 ART 417 BFA Exhibition 0 Art History courses 9
·
ELECTIVES After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree
CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR A MINOR IN ART

5 tudents must obtain written permission from the chair before declaring the minor. Admitted students will be assigned an advisor,

generally in the discipline of study. Eighteen credits are required, distributed as follows:

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

ART CONSERVATION

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

Working closely with an advisor, the students elect a concentration as well as coordinated courses in the Departments of Anthropology, Art, Art History, Chemistry and Biochemistry, and others. During their junior or senior years, majors are required to participate in one or two on-site internships in local conservation laboratories. Specialized courses in the historic development of art materials and techniques and the general philosophy and practice of art conservation and preservation are also required. Students in this program must earn a minimum of a C- in all required courses.

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

Telephone: (302) 831-3489

http://Seurat.art.udel.edu/ArtConHP.html

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

CURRICUIUM **CREDITS** See page 78 for University and College requirements. **MAJOR REQUIREMENTS (56 credits) ARTC 301** Care and Preservation of Cultural Property L. Care and Preservation of Cultural Property II
Conservation Internship (one semester) ARTC 302 ARTC 464 (Junior and/or Senior status only) ARTC 485 Color Mixing and Matching 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 3 ARTC 490 Studio in the Materials and Techniques of Printmaking I

MSST 403 MSST 466	History, Philosophy, Functions and Future of Museums	
ART 110	Foundation Drawing	
or ART 130	Drawing I: Tools and Techniques	
or ART 138	Elementary Drawing and Painting I	
ART 280	Beginning Photography	3
ART 250	Beginning Sculpture	3
or ART 260 or	Beginning Metals	
ART 290	Beginning Ceramics	
or ART 370	Fiber Survey: Structure and Surface	
Two courses f	rom the following:	5
ARTH 153	Introduction to Prehistoric Archaeology Introduction to Art History I	
ARTH 154	Introduction to Art History II	
ARTH 155 ARTH 161	Asian Art Art in the East and West	
ARTH 162	History of Architecture	
CHEM 101 CHEM 102	General Chemistry 2 General Chemistry 2	
Three courses from the fo	, with at least two courses at or above the 300-level,)
ANTH 216	Introduction to Material Culture Studies	
ANTH 222 ANTH 229	Technology and Culture Indians of North America	
ANTH 251	Introduction to Ethnic Arts	
ANTH 324	Old World Archaeology	
ANTH 338 ANTH 340	Arts & Crafts: Native South America Historical Archaeology	
ANTH 379	Historical Archaeology Historical Archaeology of the Eastern United States	
ANTH 410	Archaeological Analysis of Material Culture	
ANTH 451 ANTH 457	Myth and Culture Survey of African Art	
ARTC 444 ARTC 445	Technology of Cultural Materials: Ceramics and Glass Technology of Cultural Materials: Metals	
ARTH 207	Origins of Art	
ARTH 208	Greek and Roman Art	
ARTH 209 ARTH 210	Early Medieval Art 200-1100 AD Later Medieval Art 1000-1400 AD	
ARTH 213	Art of the Northern Renaissance	
ARTH 21 <i>7</i> ARTH 218	Early Renaissance Art High Renaissance and Mannerist Art	
ARTH 220	Italian Renaissance Architecture	
ARTH 222	Baroque Art	
ARTH 223 ARTH 225	Baroque and Rococo Architecture and Urbanism Eighteenth Century Art	
ARTH 227	Modern Art I	
ARTH 228	Modern Art II	
ARTH 230 ARTH 231	American Art: 1607-1865 American Art: 1865-present	
ARTH 233	Art of China	
ARTH 234 ARTH 235	Art of Japan Art of India	
ARTH 236	The Arts of Islam	
ARTH 301	Research and Methodology in Art History	
ARTH 302 ARTH 304	Prints and Society Northern Baroque Art	
ARTH 305	Italian Baroque: Metaphor and Marvel	
ARTH 308	Modern Architecture 1: 1750-1900	
ARTH 309 ARTH 310	Modern Architecture II: The Twentieth Century The Role of the Artist in Society	
ARTH 318	History of Photography	
ARTH 339	Art & Architecture of Europe	
BAMS 320	History of Afro-American Art	
CNST 214 CNST 224	Costume History Before 1700 Clothing Design and Production Since 1700	
ELECTIVE	S	
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree		
CREDITS TO	O TOTAL A MINIMUM OF 124	i

MAJOR: A	BACHELOR OF ARTS ART CONSERVATION RATION: PREGRADUATE STUDY
CURRICULUM	A CREDITS
See page 7	8 for University and College requirements.
MAJOR RE	EQUIREMENTS (64 or 67 credits)
ARTC 301 ARTC 302 ARTC 464	Care and Preservation of Cultural Property I. 3 Care and Preservation of Cultural Property II 3 Conservation Internship (two semesters) 6 (Junior and/or Senior status only)
ARTC 485 ARTC 488 or	Color Mixing and Matching
ARTC 489 ARTC 480 or	Studio in the Materials and Techniques of Painting II Studio in the Materials and Techniques of Drawing in the West 3
ARTC 490 ART 110 or	Studio in the Materials and Techniques of Printmaking I Foundation Drawing I
ART 130 or ART 138 ART 280	Drawing I: Tools and Techniques Elementary Drawing and Painting I Beginning Photography 3
ART 250 or ART 260 or	Beginning Sculpture
ART 290	Beginning Ceramics
or ART 370	Fiber Survey: Structure and Surface
Two courses f ANTH 103 ARTH 153 ARTH 154 ARTH 155 ARTH 161 ARTH 162	rom the following
	llowing (A or B) chemistry sequences
Option A (16 CHEM 103 CHEM 104 CHEM 321 CHEM 322	
Option B (for CHEM 111 CHEM 119 CHEM 112 CHEM 120 CHEM 321 CHEM 322	Chemistry majors or minors) (19 credits) General Chemistry Quantitative Chemistry General Chemistry Quantitative Chemistry Organic Chemistry Organic Chemistry
	with at least three courses at or above the 300-level,
ANTH 216 ANTH 222 ANTH 229 ANTH 251 ANTH 324 ANTH 338 ANTH 340 ANTH 379 ANTH 410 ANTH 451 ANTH 457	Introduction to Material Culture Studies Technology and Culture Indians of North America Introduction to Ethnic Arts Old World Archaeology Arts & Crafts: Native South America Historical Archaeology of the Eastern United States Archaeological Analysis of Material Culture Myth and Culture Survey of African Art
ARTC 444 ARTC 445	Technology of Cultural Materials: Ceramics and Glass Technology of Cultural Materials: Metals
ARTH 207 ARTH 208 ARTH 209 ARTH 210 ARTH 213 ARTH 217 ARTH 218	Origins of Art Greek and Roman Art Early Medieval Art 200-1100 AD Later Medieval Art 1000-1400 AD Art of the Northern Renaissance Early Renaissance Art High Renaissance and Mannerist Art
ARTH 220 ARTH 222	Italian Renaissance Architecture Baroque Art

ARTH 223 ARTH 225 ARTH 227 ARTH 228 ARTH 230 ARTH 231 ARTH 233 ARTH 234 ARTH 235 ARTH 236 ARTH 301 ARTH 302 ARTH 300 ARTH 308 ARTH 309 ARTH 310 ARTH 310 ART	Baroque and Rococo Architecture and Urbanism Eighteenth Century Art Modern Art I Modern Art II American Art: 1607-1865 American Art: 1865-present Art of China Art of Japan Art of India The Arts of Islam Research and Methodology in Art History Prints and Society Northern Baroque Art Modern Architecture I: 1750-1900 Modern Architecture II: The Twentieth Century The Role of the Artist in Society History of Photography Art & Architecture of Europe History, Philosophy, Functions and Future of Museums Costume History Before 1700	
CNST 214 CNST 224	Costume History Before 1700 Clothing Design and Production Since 1700	
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 CONSERVATION (Both Concentrations)

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

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

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

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

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

ART HISTORY

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

Art history is concerned with the historical development of ideas and institutions as expressed in the visual arts throughout the ages. The Department offers courses in nearly every area of art histo-

ry, with special expertise in European and American painting, photography, sculpture, and architecture from antiquity to the present. The faculty of the Department collaborate with the Winterthur Programs in Early American Culture and Art Conservation, as well as with those in Museum Studies and Historic Preservations. Visits to museums from New York to Washington are scheduled in connection with many art history courses. The University Gallery houses a collection of original works of art and offers internship, research, and exhibition opportunities for students. Advanced students may draw upon the departmental slide and photograph collections.

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

Telephone: (302) 831-8415

http://Seurat.art.udel.edu/ArtHistHP.html

DEGREE: BACHELOR OF ARTS

MAGORI ART THIS TORT	
CURRICULUM	CREDITS
See page 78 for University and College requirements.	
MAJOR REQUIREMENTS	
ARTH 153 Introduction to Art History I	
Fifteen credits at the 200-level or above, distributed as follows:	
b Medieval (including Northern Renaissance) c Renaissance d Baroque or 18th Century e Modern	3 3 3
ARTH 301 Research and Methodology in Art History Art History Seminar at the 300- or 400-level Other Art History courses above 100-level	3
ENGL 202 Biblical and Classical Literature Any advisor-approved 200- or 300-level History course	
Nine credits, with the advisor's approval, from appropriate courses in the following areas: Anthropology, Studio Art, Education, English, History, Foreign Languages and Literatures (other than that used to satisfy the College's foreign language requirement), Music, Philosophy, and Theatre A second History course, a Studio Art course, and a foreign language literature course are recommended	· · 9
EL ECTIVES	

REQUIREMENTS FOR THE MINOR IN ART HISTORY

taken to meet the minimum credit requirement for the degree

After required courses are completed, sufficient elective credits must be

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

CREDITS TO TOTAL A MINIMUM OF 124

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

ASIAN STUDIES

(See East Asian Studies)

ASTRONOMY

(See Physics and Astronomy)

BIOLOGICAL SCIENCES

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

The undergraduate programs in biology are designed to meet intellectual needs as well as to prepare students for subsequent professional or vocational training. Preprofessional students (medicine, physical therapy, dentistry, osteopathy, etc.) generally enroll as majors in the biological sciences. Special advisement for these students is available through the Health Sciences Advisement and Evaluation Committee, Room 118 Wolf Hall, telephone (302) 831-2282

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

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

Telephone: (302) 831-2282 http://www.udel.edu/bio/

BIOLOGICAL SCIENCES DEGREE PROGRAMS

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

Many opportunities exist for research experience with a faculty member. In addition, an opportunity for teaching experience exists. Up to 4 credits of research or independent study (BISC 266, 366, 466, or 666) may be counted toward the 33 credits required for the majors in Biological Sciences or Biological Sciences Education. Some biology-related courses in other departments may be counted toward the major (limit 6 credits).

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

BIOTECHNOLOGY

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

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

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

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

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

NEUROSCIENCE

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

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

COOPERATIVE EDUCATION PROGRAM

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

Information about this program may be obtained from the Career Services Center or the Biology Advisement Office, 118 Wolf Hall, telephone (302) 831-2282.

DEGREE: BACHELOR OF ARTS MAJOR: BIOLOGICAL SCIENCES

CURRICULUM

See page 78 for University and College requirements.		
MAJOR REQUIREMENTS		
Minimum grade C- required in all BISC courses for a total of at least 33 credits in biology.		
BISC 207/208 Introductory Biology I and II 8 BISC 303 Genetic and Evolutionary Biology 4		
At least two of the following courses: 7-8 BISC 301 Molecular Biology of the Cell BISC 302 General Ecology BISC 304 General Physiology General Physiology		

Biology electives at the 300-level or above, including one 600-level course other than Independent Study	13-14
CHEM 103/104 General Chemistry	8
CHEM 321 Organic Chemistry CHEM 322 Organic Chemistry or	
CHEM 213 Elementary Organic Chemistry CHEM 214 Elementary Biochemistry CHEM 216 Elementary Biochemistry Laboratory	
PHYS 201/202 Introductory Physics I and II	
ELECTIVES	
After required courses are completed, sufficient elective credits must taken to meet the minimum credit requirement for the degree.	be
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 so in secondary schools must identify themselves and plan their program with the faculty advisor for secondary education as early in their aca careers as possible. The following course of study is designed to prejudents for teacher certification	ns Idemic
CURRICULUM	CREDITS
See page 78 for University and College requirements.	
MAJOR REQUIREMENTS	
Minimum grade C- required in all BISC courses for a total of at least 33 credits in biology.	
BISC 207/208 Introductory Biology I and II BISC 301 Molecular Biology of the Cell BISC 303 Genetic and Evolutionary Biology	
BISC 302 General Ecology	
or BISC 306 General Physiology	
Biology electives at the 300-level or above, including one 600-level course other than Independent Study.	13-14
CHEM 103/104 General Chemistry	8
CHEM 213 Elementary Organic Chemistry	4
or CHEM 321 Organic Chemistry	4
CHEM 214 Elementary Biochemistry	
CHEM 216 Elementary Biochemistry Laboratory	1
PHYS 201/202 Introductory Physics I and II	
GEOL 105/115 General Geology and Laboratory Geology Elective	4

To be eligible to student teach, Biological Sciences Education students must have a g p a of 2.75 in their biology major and an overall g p.a. of 2.5 Students must consult the teacher education program coordinator (see list on p. 176) to obtain the student teaching application and other information concerning student teaching policies.

Teaching Science in Secondary Schools
Student Teaching

CREDITS TO TOTAL A MINIMUM OF 124

Diversity in the Classroom...

Educational Psychology - Social Aspects
Educational Psychology - Cognitive Aspects
Reading in the Content Areas

DEGREE: BACHELOR OF SCIENCE MAJOR: BIOLOGICAL SCIENCES CONCENTRATION: BIOTECHNOLOGY

EDUC 201

EDUC 304

EDUC 305

EDUC 420

SCEN 491

CREDITS

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

COLLEGE REQUIREMENTS

Writing: (minimum grade C-) A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet (See list of courses approved for second writing requirement, page 81.) Foreign Language: .. 0-12 Completion of the intermediate-level course (107 or 112 or 214) in a given language. 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 lan-guage may attempt to fulfill the requirement in that language by taking an exemption examination Breadth Requirements (See page 83) A total of twenty-one credits from Groups A, B and C is .. 21 required with a minimum of six credits in each group. The six credits from each group could be from the same area. Group A: Understanding and appreciation of the creative arts and humanities Group B: The study of culture and institutions over time Group C: Empirically based study of human beings and their environment MAJOR REQUIREMENTS Minimum grade C- in BISC courses for the major BISC 207/208 Introductory Biology I and II... Molecular Biology of the Cell Genetic and Evolutionary Biology BISC 301 **BISC 303** BISC 305 Cell Physiology Introduction to Microbiology BISC 371 BISC 604 Recombinant DNA Laboratory ... Recent Advances in Molecular Biology BISC 653 Two courses selected from the following: BISC 499/699 BISC 602 N 9 Computers in Biological Research Molecular Biology of Animal Cells Genetic Toxicology **BISC 608** BISC 617 Laboratory Techniques for Electron Microscopy Bacterial Physiology BISC 650 BISC 654 BISC 658 Biochemical Genetics Developmental Genetics BISC 673 Topics in Immunogenetics BISC 679 Virology Human Genetics BISC 693 1 (6 credits) BISC 492 BISC 493 Human and Mammalian Cytogenetics Mammalian Cytogenetics Laboratory II (6 credits) Immunobiology BISC 471/671 BISC 601 Immunochemistry III (4 credits) BISC 619 Macromolecules Laboratory CHEM 103/104 General Chemistry. CHEM 321/322 Organic Chemistry 8 CHEM 641/642 Biochemistry PHYS 201/202 Introductory Physics I and II Calculus I ... MATH 221 **ELECTIVES** After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree BISC 444 is encouraged but not required, and does not count as credit in the major.

REQUIREMENTS FOR A MINOR IN BIOLOGY

The required courses are BISC 207, 208; two courses from BISC 301, 302 (or 321), 303, 371, 306 (or 276), plus additional biology courses at the 300-level or above to total 19 credits in biology; CHEM 103, 104 (or 101, 102), and 213 (or 321); plus the necessary prerequisites for any of these courses. Nursing majors may satisfy the

CREDITS TO TOTAL A MINIMUM OF 124

chemistry requirement by taking CHEM 104, 105 and 106. Nursing, Medical Technology, Nutrition, and Dietetics majors may substitute BISC 276 for BISC 306. A grade of C- or better is required in all biology courses taken for the minor, and a D (not a D-) is required in the non-biology courses for the minor.

BLACK AMERICAN STUDIES

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

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

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

REQUIREMENTS FOR A MINOR IN BLACK AMERICAN STUDIES

5 tudents applying for the minor in Black American Studies must have completed at least one semester of full-time study at the University with a grade-point average of at least 2.1. The minor requires 18 credits, including BAMS 110, 304, 306, and one BAMS elective at or above the 300-level with the approval of an advisor, plus 2 more BAMS courses.

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

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

CHEMISTRY AND BIOCHEMISTRY

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

Telephone: (302) 831-1247

http://www.udel.edu/chem/chem.html

DEGREE: BACHELOR OF ARTS MAJOR: CHEMISTRY	EDUC 201 Diversity in the Classroom 3 EDUC 304 Educational Psychology – Social Aspects 3 EDUC 305 Educational Psychology – Cognitive Aspects 3
CURRICULUM CREDITS	SCEN 491 Teaching Science in Secondary Schools 4
See page 78 for University and College requirements.	EDUC 420 Reading in the Content Areas 1 EDUC 400 Student Teaching 9
MAJOR REQUIREMENTS	To be eligible to student teach, Chemistry Education students must have a
A minimum grade C- is required in each CHEM course required for the B A. degree in Chemistry.	g.p.a. of 2.75 in their chemistry major and an overall g.p.a. 2.5. Students should consult the teacher education program coordinator (see list on p. 176) to obtain the student application and other information concerning
CHEM 103/104 General Chemistry 8 CHEM 220/221 Quantitative Analysis and Laboratory 4 or	student teacher policies. CREDITS TO TOTAL A MINIMUM OF
CHEM 111/112 General Chemistry 6 CHEM 119/120 Quantitative Chemistry I and II. 5	CREDITS TO TOTAL A MINIMOM OF 124
CHEM 321/322 Organic Chemistry 8	HONORS BACHELOR OF ARTS: CHEMISTRY EDUCATION
or CHEM 331/332/333/334 Organic Chemistry and Laboratory I and II 10	The recipient must complete:
CHEM 437/438 Instrumental Methods and Laboratory 4	1. All requirements for the Bachelor of Arts degree in Chemistry
CHEM 418/419/445 Introductory Physical Chemistry and Laboratory 7	Education.
or CHEM 443/444/445 Physical Chemistry and Laboratory	2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 43 of this catalog).
One of the following eight courses:	Note: At least eight of the twelve credits described in the Univer-
CHEM 457 Inorganic Chemistry	sity's generic requirements for the Honors Degree must be
CHEM 527 Introductory Biochemistry CHEM 610 History of Chemistry	in CHEM courses. The remaining four credits must be in a
CHEM 620 Analytical Spectroscopy	required course in a related technical area, e.g., BISC,
CHEM 622 Electroanalytical Chemistry CHEM 623 Chemometrics	MATH, PHYS, EDUC. CHEM courses at the 600-level or
CHEM 633 Advanced Organic Chemistry: Physical	higher may be considered as Honors courses. 3. The additional requirement of a grade point index of at least 3.30
CHEM 634 Advanced Organic Chemistry: Synthesis and Reactivity	in chemistry courses at the time of graduation.
MATH 221 Calculus I	in change by compact in the many of generalization
MATH 241 Analytic Geometry and Calculus A (strongly preferred)	DECREE DACHELOR OF COUNTY
PHYS 201/202 Introductory Physics I and II	DEGREE: BACHELOR OF SCIENCE MAJOR: CHEMISTRY
or PHYS 207/208 Fundamentals of Physics I and II	CURRICULUM CREDITS
ELECTIVES	UNIVERSITY REQUIREMENTS
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree	ENGL 110 Critical Reading and Writing (minimum grade C-) 3 Three credits in an approved course or courses stressing 3 multicultural, ethnic, and/or gender-related content (see p. 57)
CREDITS TO TOTAL A MINIMUM OF 124	COLLEGE REQUIREMENTS
	Writing: (minimum grade C-)
DEGREE: BACHELOR OF ARTS	A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for
MAJOR: CHEMISTRY EDUCATION	extended faculty critique of both composition and content. This course
CURRICULUM CREDITS	must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet.
See page 78 for University and College requirements.	(See list of courses approved for second writing requirement, page 81.)
MAJOR REQUIREMENTS	Foreign Language: 0-12
CHEM courses to total 30 credits minimum. CHEM 111/112 General Chemistry 6	Completion of the intermediate-level course (107 or 112) in a modern for-
CHEM 119/120 Quantitative Chemistry I and II	eign language. Number of credits needed and initial placement will depend on number of years of high school study of foreign language. Stu-
Or	dents with four or more years of high school work in a single modern for-
CHEM 103/104 General Chemistry 8 CHEM 220/221 Quantitative Analysis and Laboratory 4	eign language may attempt to fulfill the requirement in that language by taking an exemption examination. (German recommended)
One of the following: 4-8	Breadth Requirements (See page 83)
CHEM 213 Elementary Organic Chemistry	A total of twenty-one credits from Groups A, B and C is
CHEM 321/322 Organic Chemistry CHEM 331/332/333 Organic Chemistry and Laboratory	required with a minimum of six credits in each group. The six credits from each group could be from the same area
CHEM 437/438 Instrumental Methods and Laboratory 4	Group A: Understanding and appreciation of the creative arts and humanities.
CHEM 418/445 Introductory Physical Chemistry and Laboratory 4	Group B: The study of culture and institutions over time
Or CUSAN AA2 / AA5 - Ph. St. of Charles and Laborators	Group C: Empirically based study of human beings and their environment.
CHEM 443/445 Physical Chemistry and Laboratory	MAJOR REQUIREMENTS
CHEM 214/216 Elementary Biochemistry and Laboratory	Minimum 45 credits total in CHEM
BISC 207 Introductory Biology I 4	CHEM 111/112 General Chemistry
GEOL 105/115 General Geology and Laboratory 4	CHEM 119/120 Quantitative Chemistry I and II
MATH 221/222 Calculus I and II	CHEM 331/332 Organic Chemistry 6 CHEM 333/334 Organic Chemistry Majors Laboratory I and II 4
MATH 241/242 Analytic Geometry and Calculus A and B	CHEM 443/445 Physical Chemistry and Laboratory 4 CHEM 437/438 Instrumental Methods and Laboratory 4
PHYS 201/202 Introductory Physics I and II	CHEM 527 Introductory Biochemistry 3
or PHYS 207/208 Fundamentals of Physics I and II	or CHEM 641 Biochemistry

CHEM 444/446 Physical Chemistry and Laboratory 4 CHEM 457/458 Inorganic Chemistry and Laboratory 4 CHEM 465 Seminar (two semesters) 2 Advanced Chemistry course at 600-level or higher 3	extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)
CHEM 468 Undergraduate Research (optional) 3	Foreign Language: 0-12
MATH 241/242/243 Analytic Geometry and Calculus A, B and C	Completion of the intermediate-level course (107 or 112) in a modern for-
PHYS 201/202 Introductory Physics I and If	eign language Number of credits needed and initial placement depends on number of years of high school study of foreign language. Students
PHYS 207/208 Fundamentals of Physics I and II	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
Strongly Recommended: MATH 302 Ordinary Differential Equations I	an exemption examination. (German recommended)
ELECTIVES	Breadth Requirements (See page 83)
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	A total of twenty-one credits from Groups A, B and C is
CREDITS TO TOTAL A MINIMUM OF 128	Group A: Understanding and appreciation of the creative arts and humanities.
	Group B: The study of culture and institutions over time
DEGREE: BACHELOR OF SCIENCE	Group C: Empirically based study of human beings and their environment.
MAJOR: CHEMISTRY	MAJOR REQUIREMENTS
CONCENTRATION: ENVIRONMENTAL STUDIES	Minimum 46 credits total in CHEM
CURRICULUM CREDITS	CHEM 111/112 General Chemistry 6
MAJOR REQUIREMENTS	CHEM 119/120 Quantitative Chemistry I and II 5 CHEM 331/332 Organic Chemistry 6
All requirements for the B.S. in Chemistry must be met. In addition,	CHEM 331/332 Organic Chemistry 6 CHEM 333/334 Organic Chemistry Majors Laboratory I and II 4
the following courses are required for the concentration.	CHEM 342 Introduction to Biochemistry 3
One of the following two-semester sequences:	CHEM 418 Introductory Physical Chemistry
BISC 207/208 Introductory Biology I/II GEOG 152/220 Climate and Life/Meteorology	or CHEM 443 Physical Chemistry
GEOL 106/107 General Geology	CHEM 437/438 Instrumental Methods and Laboratory 4 CHEM 641 Biochemistry 3
Two of the following three-credit courses: 6 BISC 302 General Ecology	CHEM 419 Introductory Physical Chemistry 3
CIEG 433 Hazardous Waste Management	CHEM 444 Physical Chemistry
CIEG 435 Industrial Wastes Management CIEG 437/637 Water and Waste Water Quality	CHEM 445 Physical Chemistry Laboratory
CIEG 632 Chemical Aspects of Environmental Engineering	CHEM 642 Biochemistry
CIEG 634 Physical Aspects of Environmental Engineering	
CIEG 636 Biological Aspects of Environmental Engineering	Two Advanced Biochemistry courses at 600-level
GEOG 412 Physical Climatology GEOG 420 Atmospheric Physics	Two Biology courses selected from the following:
GEOG 423 Atmospheric Dynamics	BISC 301 Molecular Biology of the Cell (4)
GEOL 421 Environmental and Applied Geology	BISC 303 Genetic and Evolutionary Biology (4) BISC 601 Immunochemistry (4)
MAST 646 Chemical Oceanography	BISC 601 Immunochemistry (4) BISC 604 Recombinant DNA Laboratory (4)
MAST 647 Physical Chemistry of Seawater MAST 681 Remote Sensing of Environment	BISC 654 Biochemical Genetics (3)
PLSC 608 Soil Chemistry	BISC 679 Virology (3)
CREDITS TO TOTAL A MINIMUM OF 128	BISC 698 Comparative Endocrinology (3)
Candidates for a B.S. in chemistry must achieve a cumulative GPA of at	CHEM 465 Seminar(two semesters) 2 CHEM 468 Undergraduate Research 6-8
least 2.00 for all chemistry courses taken. Repeated Chemistry courses will be counted only once in the calculation of the chemistry GPA. The calcula-	or Two Biology laboratory courses selected from the following:
tion of the chemistry course GPA (2.00 minimum required for graduation)	BISC 303 Genetic and Evolutionary Biology (4)
for candidates for the B.S degree in Chemistry or Biochemistry will not	BISC 306 General Physiology (4)
include grades earned for lower level subdisciplinary courses taken after a higher level course in the same subdiscipline has been taken and passed	BISC 371 Introduction to Microbiology (4) BISC 601 Immunochemistry (4)
with a grade of C or higher. Likewise, freshman-level courses may not be	7.17
used by upperclassmen as GPA enhancers after those required for gradua-	Related Work
tion have been taken. CHEM 342 and CHEM 100 will be regarded as	MATH 241/242 Analytic Geometry and Calculus A and B 6-8
exceptions to the foregoing prohibitions, since their subject matter coverage is considerably different than that found in higher level courses.	or MATH 221/222 Calculus I and II
Example: A grade earned in CHEM 214 subsequent to a C or better	BISC 207/208 Introductory Biology I and II
grade earned in CHEM 527 (or CHEM 641/642) would not be counted	PHYS 201/202 Introductory Physics I and II 8
in the chemistry GPA calculation for B.S. chemistry or biochemistry majors.	ELECTIVES
	After required courses are completed, sufficient elective credits must be
DEADER DAGUELAN OF CALENGE	taken to meet the minimum credit requirement for the degree.
DEGREE: BACHELOR OF SCIENCE MAJOR: BIOCHEMISTRY	CREDITS TO TOTAL A MINIMUM OF 127
CURRICULUM CREDITS	Candidates for a B S. in biochemistry must achieve a cumulative GPA
UNIVERSITY REQUIREMENTS	of at least 2.00 for all chemistry courses taken. Repeated Chemistry
ENGL 110 Critical Reading and Writing (minimum grade C.)	courses are counted only once in the calculation of the Chemistry GPA. The calculation of the chemistry course GPA (2.00 minimum
Three credits in an approved course or courses stressing.	required for graduation) for candidates for the B.S. degree in Chem-
multicultural, ethnic, and/or gender-related content (see p. 57).	istry or Biochemistry will not include grades earned for lower level
COLLEGE REQUIREMENTS	subdisciplinary courses taken after a higher level course in the same
Writing: (minimum grade C-)	subdiscipline has been taken and passed with a grade of C or higher. Likewise, freshman-level courses may not be used by upperclassmen as
A second writing course involving significant writing experience including	GPA enhancers after those required for graduation has been taken.
two papers with a combined minimum of 3,000 words to be submitted for	CHEM 342 and CHEM 100 will be regarded as exceptions to the

foregoing prohibitions, since their subject matter coverage is considerably different than that found in higher level courses

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

HONORS BACHELOR OF SCIENCE: **CHEMISTRY OR BIOCHEMISTRY**

The recipient must complete:

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

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

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

REQUIREMENTS FOR A MINOR IN CHEMISTRY

The minor in chemistry requires a minimum of 19 credits as follo	
CHEM 103, 104, (or 111,112,119)	redits
Any three of the following:	U
CHEM 220, 221 (or 437, 438)	4
CHEM 321 (or 331, 333)	-5
CHEM 457, 458	
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.

CLASSICS

See Foreign Languages and Literatures)

COGNITIVE SCIENCE

(See Linguistics)

COMMUNICATION

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

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

Toward this end, communication is viewed as a social and behavioral science. Courses are offered in the areas of human communication theory, interpersonal communication, mass communication, organizational communication, public relations, and oral communication skills. Classes emphasize the use of theory and research to understand and analyze communication processes

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

Students who major in communication will work with their assigned faculty advisor to plan a program of courses that leads to the degree of Bachelor of Arts.

Telephone: (302) 831-8041

http://www.udel.edu/johnc/udcomm.html

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

CREDITS

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

NOTE: All 4XX communication courses may be limited to COMM majors COMM 245, 256, 301, and 330 comprise the four core courses in the communication interest major COMM 245 Mass Communication and Culture COMM 330 Communication and Interpersonal Behavior COMM 341 Theories of Interpersonal Communication COMM 350 Public Speaking COMM 350 Public Speaking
COMM 417 Communication and the Management of Conflict. COMM 485 Analysis of Face-to-Face Communication One additional 400-level Interpersonal or Organizational Communication course.

One additional 400-level COMM course, not COMM 466 or COMM 464 Six to 15 COMM elective credits... for a total of not less than 36 nor more than 45 COMM credits These

Interpersonal Communication Electives

COMM 200 Introduction to Human Communication Systems

may be taken from the other concentration or from the following:

COMM 251 The Development of Verbal Communication

COMM 438 Speech, Language and Communication

COMM 440 Topics in Interpersonal Communication COMM 452 Communication and Persuasion

Mass Communication Electives

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

COMM 325 Studio Television Production

COMM 326 Field Television Production

COMM 388 TV Production Practicum

COMM 418 Topics in Mass Communication

COMM 454 Children and the Mass Media

Organizational Communication Electives

COMM 356 Small Group Communication

COMM 442 Topics in Organizational Communication
COMM 456 Communication in Organizations

Public Relations Electives

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

COMM 309 Introduction to Public Relations

COMM 311 Public Relations Writing
COMM 409 Public Relations Campaign Planning

COMM 413 Public Relations Management

General Electives

COMM 366/466 Independent Study/Special Problems

COMM 364 Internship

COMM 367/467 Experimental Courses not listed in Catalog

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

CREDITS

DEGREE: BACHELOR OF ARTS MAJOR: COMMUNICATION CONCENTRATION: MASS COMMUNICATION
CURRICULUM CREDITS
See page 78 for University and College requirements.
MAJOR REQUIREMENTS
NOTE: All 4XX communication courses may be limited to COMM majors COMM 245, 256, 301, and 330 comprise the four core courses in the communication interest major. COMM 245 Mass Communication and Culture
may be taken from the other concentration or from the following:
Interpersonal Communication Electives COMM 200 Introduction to Human Communication Systems COMM 251 The Development of Verbal Communication COMM 438 Speech, Language and Communication COMM 440 Topics in Interpersonal Communication COMM 452 Communication and Persuasion
Mass Communication Electives
NOTE: COMM 325 is prerequisite to COMM 388 and COMM 435
COMM 325 Studio Television Production COMM 326 Field Television Production COMM 388 TV Production Practicum COMM 418 Topics in Mass Communication COMM 454 Children and the Mass Media
Organizational Communication Electives
COMM 356 Small Group Communication COMM 442 Topics in Organizational Communication COMM 456 Communication in Organizations
Public Relations Electives
NOTE: ENGL 307 is prerequisite to the following sequence and should be taken in the sophomore year. COMM 309 Introduction to Public Relations COMM 311 Public Relations Writing COMM 409 Public Relations Campaign Planning
COMM 413 Public Relations Program Management
General Electives COMM 366/466 Independent Study/Special Problems COMM 364 Internship COMM 367/467 Experimental Courses not listed in Catalog
ELECTIVES After required courses are completed sufficient elective credits must be

HONORS BACHELOR OF ARTS: COMMUNICATION

taken to meet the minimum credit requirement for the degree

The recipient must complete:

1. All requirements for the Bachelor of Arts degree in Communication.

CREDITS TO TOTAL A MINIMUM OF 124

- 2. All of the University's generic requirements for the Honors Baccalaureate degree (see page 43 of this catalog).
- Honors students concentrating in Interpersonal Communication must take Honors sections of COMM 245, COMM 330, COMM 417, and COMM 485. Students concentrating in Mass Communication must take Honors sections of COMM 245, COMM 330, COMM 424, and COMM 450.

COMPARATIVE LITERATURE

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

Students majoring or minoring in comparative literature must have a command of at least one foreign language at the advanced elective level. It is strongly recommended that majors pursue a second foreign language at least through the intermediate level. Students planning to go on to graduate work in comparative literature would be well advised to include work in a classical language in their program. Majors are expected to make use of their command of foreign languages in comparative literature courses. For information on the Comparative Literature major or minor, contact Professor Nicolas Gross, 439 Smith Hall (302) 831-2039.

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

Telephone: (302) 831-2039

DEGREE: BACHELOR OF ARTS MAJOR: COMPARATIVE LITERATURE

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR THE MINOR IN COMPARATIVE LITERATURE

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

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

COMPUTER AND INFORMATION SCIENCES

The Department of Computer and Information Sciences offers fouryear undergraduate programs leading to either a Bachelor of Arts degree in computer science or a Bachelor of Science degree in computer science. In conjunction with the University Honors Program, the Department also offers a program of study leading to an Honors B.A. or an Honors B.S. with a major in Computer Science. Courses are also provided for students in other areas who desire an understanding of the application of computers to the subject of their major interest. In many courses, problem solutions require the use of computers located in the University of Delaware Computing Center. These computers are available to undergraduate students for use in connection with both course work and research.

Telephone: (302) 831-2712 E-mail: ugradprgm@cis.udel.edu http://www.cis.udel.edu/home.html

	SACHELOR OF ARTS COMPUTER AND INFORMATION SCIENCES	
CURRICULUA	1	CREDITS
See page 7	8 for University and College requirements.	
MAJOR RI	EQUIREMENTS	
CISC 181		3
prior expe CISC 220	some prior programming experience. Students without rience should first take CISC 105.) Data Structures	
CISC 280 Eighteen cred	Machine Organization and Assembly Language Program Development Techniques lits of Computer Science numbered 301 or proved by the student's advisor.	3
MATH 210 MATH 241 MATH 315	Discrete Mathematics I	4
	S I courses are completed, sufficient elective credits must be the minimum credit requirement for the degree	
CREDITS T	O TOTAL A MINIMUM OF	124

DEGREE: BACHELOR OF SCIENCE MAJOR: COMPUTER AND INFORMATION SCIENCES CURRICULUM

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

CREDITS

....... 3

COLLEGE REQUIREMENTS

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

toes his or courses approved for second writing requirement, page of the	
Breadth Requirements (See page 83)	
Six credits from each of the following groups	8
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

	Introduction to Computer Science 3			
(Assumes some prior programming experience. Students without				
	erience should first take CISC 105.)			
CISC 220	Data Structures 3			
CISC 260	Machine Organization and Assembly Language 3			
CISC 280	Program Development Techniques			
CISC 301	Elements of Logic and Automata Theory			
CISC 320	Introduction to Algorithms 3			
CISC 360	Computer Architecture 3			
CISC 361	Operating Systems			
CISC 475	Object-oriented Software Engineering			
Twelve credits of Computer Science numbered 301 or above,				

Twelve credits in advanced courses in an advisor-approved CISC			
MATH 210 Discrete Mathematics I 3 MATH 241 Analytic Geometry and Calculus A 4 STAT 205 Statistical Methods 4 ENGL 312 Written Communications in Business 3 or 3			
ENGL 410 Technical Writing 3 CSCC 355 Computers, Ethics and Society 3 CPEG 210 Introduction to Combinational Logic 2 CPEG 211 Introduction to Sequential Circuits 2			
One of the following sequences of laboratory science courses: PHYS 207/208 Fundamentals of Physics 8			
CHEM 103/104 General Chemistry			
or BISC 207/208 Introductory Biology 8			
GEOL 106/107/116 General Geology and Laboratory 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			

REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE

A minor in computer science consists of a total of 15 or more credits including CISC 181, CISC 220, and CISC 280. Students without prior programming experience should take CISC 105 first. Six 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 Science requires a grade of C- or better in all courses counted towards a minor.

CONTINENTAL EUROPEAN STUDIES

An interdisciplinary major in Continental European Studies, including an Honors option, is offered jointly by the Departments of Foreign Languages and Literatures, History, and Political Science and International Relations. The B.A. program in Continental European Studies prepares undergraduate students as Europeanists; accordingly, it gives students a focused knowledge of the history and political institutions of a particular European country (e.g., Italy) in a general European context, together with the linguistic skills required to engage in a rigorous program of research or graduate-level studies in the target country and to discharge their future professional responsibilities competently and successfully. Students will acquire a unique cultural perspective of the target country, combining several disciplines into a sharply defined major.

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

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

Study abroad is strongly recommended for students in this program.

Telephone: (302) 831-2038 E-mail: braun@udel.edu

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

DEGREE: BACHELOR OF ARTS MAJOR: CONTINENTAL EUROPEAN STUDIES	
CURRICULUM	CREDITS
See page 78 for University and College requirements.	
MAJOR REQUIREMENTS	
Foreign Languages and Literatures: 12 credit hours of work at the 200-level and above in a European forei language (French, German, Italian, Russian, and Spanish), as follows: 3 credits at the 200-level 3 credits in continental literature at the 300-level 3 credits in continental civilization at the 300- or 400-level	ign
History: 12 credit hours of work in History courses as follows: HIST 101 or 102 Western Civilization	3
The 200-, 300-, and 400-level History courses will be drawn from courses such as the following, depending on the student's specialization:	-
HIST 210, 241, 245, 250, 339, 342, 343, 344, 345, 346, 347, 348 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, plus 400-level History courses, with the prior approval of the advisor	,
Political Science and International Relations:	
12 credit hours of work in Political Science courses, as follows: POSC 270 Comparative Politics	3
One of the following two courses: POSC 310 European Governments POSC 372 East Central European Politics	
Two of the following: POSC 432 Political Systems of the Post-Soviet Union POSC 441 Problems of Western European Politics by Country POSC 442 Problems of Western European Politics POSC 300- or 400-level topics courses with European content, as approved by the program advisor	
Nine credits of work in any combination of courses in the	0

ELECTIVES

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

foreign language, History, Political Science, or in related fields (such as Art History, Geography, Music), all **with the prior consent of the student's advisor.** The Honors thesis or Degree with Distinc-

CREDITS TO TOTAL A MINIMUM OF 124

HONORS BACHELOR OF ARTS: CONTINENTAL EUROPEAN STUDIES

tion thesis can be included in this category

The requirements for the Honors B.A. in Continental European Studies are:

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

CRIMINAL JUSTICE

See Sociology and Criminal Justice.

EARTH SCIENCE EDUCATION

See Geology.

EAST ASIAN STUDIES

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

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

Students enrolled in this program will enhance their knowledge and 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.

Telephone: (302) 831-2371

http://www.udel.edu/AreaStudies/asia.html

DEGREE: BACHELOR OF ARTS MAJOR: FAST ASIAN STUDIES

MAJOR: I	EAST ASIAN STUDIES	
CURRICULUM		
See page 7	78 for University and College requirements.	
MAJOR R	EQUIREMENTS (31 or 32)	
One of the	following options (A or B):	
A. Concent	tration in China or Japan - (7 credits total)	
CHIN 107 JAPN 107 Plus 3 credit	ollowing two courses: Chinese III - Intermediate Japanese III - Intermediate hours at the 200-level or above in or in Japanese (including JAPN 200, 205, 206, or 209)	
or		
B. Joint Ch CHIN 107 JAPN 107	inese/Japanese Concentration (8 credits total) Chinese III - Intermediate Japanese III - Intermediate	
For both co	oncentrations:	
HIST 137 HIST 138 PHIL 310 POSC 312	East Asian Civilization: China East Asian Civilization: Japan . Chinese Religion and Philosophy East Asian Political Systems	3 3
Choose one ARTH 155 JAPN 204 MUSC 206	of the following three courses: Asian Art The Art of Japanese Calligraphy Music of China, Korea, and Japan	
Social Sci	ts of major electives in the Humanities and ences, from at least 2 departments, selected through prior on with the student's Advisor	9

These courses include, among others: ARTH 155 (if not selected as a required course), ARTH 156, ARTH 233, ARTH 234, ARTH 237, FLLT 328 (may be repeated when topic differs), FLLT 380 (may be repeated when topic differs), FLLT 338, HIST 270, HIST 333, HIST 368 (restricted to sophomores and above), HIST 369 (restricted to sophomores and above), HIST 370, HIST 371, HIST 372, HIST 479 (may be repeated when topic differs), JAPN 200, JAPN 204, JAPN 205, JAPN 206, JAPN 208, JAPN 209, JAPN

266, JAPN 305, JAPN 340, JAPN 350, JAPN 355, JAPN 366, JAPN 440, 266, JAPN 305, JAPN 340, JAPN 350, JAPN 350, JAPN 360, JAPN 440, JAPN 455, LING 470 (prereq.=LING 101), LING 495 (prereq.=LING 101), MUSC 119, MUSC 121 (1 credit), MUSC 206 (if not selected as a required course), POSC 427, POSC 428, POSC 443, plus 200-level CHIN, 200level JAPN, 300-level ECON and certain HESC courses

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

CREDITS TO TOTAL A MINIMUM OF 124

HONORS BACHELOR OF ARTS: EAST ASIAN STUDIES

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

- 1. All requirements for the B.A. in East Asian Studies.
- 2. All the University's generic requirements for the Honors Degree (see page 43 of this catalog). The Honors credits in the major shall come from at least two different participating departments, and shall include at least two courses at the 300-level or above.
- 3. The successful completion of the two courses (6 credit hours) required to produce an Honors Thesis. This requirement would be in addition to the 31 or 32 credit hours required for the East Asian Studies major, to yield a total of 37 or 38 credit hours.
- The cumulative grade point average for all courses in major must be at least 3,400.

REQUIREMENTS FOR A MINOR IN EAST ASIAN STUDIES

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

EAST ASIAN STUDIES MINOR WITHOUT LANGUAGE

Number of credits required: 18

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

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

ARTH 155 Asian Art

ARTH 161 Art in East and West

Topics: Japanese Culture in Translation FLLT 380 The Age of Confucius **HIST 333**

Music of China, Korea, and Japan Chinese Religion and Philosophy MUSC 206 PHIL 310

6 credits from the following courses in the social sciences:

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

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

ECON 3xx East Asian Economic Systems **HIST 368** Modern China: 1600-1920s China Since 1900 HIST 369 History of Modern Japan HIST 370 HIST 393 History of Modern Vietnam China and the West HIST 3xx Seminar in Asian History HIST 479 LING 470 Structure of Chinese **LING 495** Structure of Japanese POSC 427 POSC 428 Politics in China

Politics in Japan

POSC 443

China and the World

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

EAST ASIAN STUDIES MINOR WITH LANGUAGE

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

ECONOMICS

Students enrolled in the College of Arts and Science may earn a Bachelor of Arts degree by majoring in Economics or in Economics Education. These majors have the same group and language requirements as other Bachelor of Arts programs offered in the College of Arts and Science

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

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

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

Telephone: (302) 831-2563

http://www.be.udel.edu/Econ_Site/EconHP.html

DEGREE: BACHELOR OF ARTS

MAJOR: E	CONOMICS			
CURRICULUA	Λ	CREDITS		
See page 7	See page 78 for University and College requirements.			
MAJOR RI	EQUIREMENTS			
Minimum (C- in all required ECON courses.			
ECON 151 ECON 152 ECON 300 or	Introductory Microeconomics: Prices and Markets Introductory Macroeconomics: National Economy Intermediate Microeconomic Theory	3		
ECON 301 ECON 302 ECON 303	ics courses, at least two of which are at or above			
STAT 201 STAT 202	Introduction to Statistics I. Introduction to Statistics II			
Nine credits chosen from any 300-level or higher course in				
ELECTIVE	es			
After required courses are completed, sufficient elective credits must be				

taken to meet the minimum credit requirement for the degree

CREDITS TO TOTAL A MINIMUM OF 124

Credit will not be allowed for both courses of any of the following sets of corresponding courses: ECON 311 and ECON 411; ECON 332 and ECON 433; ECON 344 and ECON 444; ECON 360 and ECON 463; and ON 381 and ECON 483.

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

DEGREE: BACHELOR OF ARTS

MAJOR: ECONOMICS EDUCATION

CURRICULUM	1	CREDIT		
See page 7	See page 78 for University and College requirements.			
MAJOR RE	EQUIREMENTS			
Minimum C	- in all required ECON courses.			
ECON 151	Introductory Microeconomics: Prices and Markets	3		
ECON 152		3		
ECON 300	Intermediate Microeconomic Theory	3		
or				
ECON 301	Quantitative Microeconomic Theory Banking and Monetary Policy Intermediate Macroeconomic Theory	3		
ECON 302	Banking and Monetary Policy	3		
ECON 303	Intermediate Macroeconomic Theory	3		
five Economic the 400-lev	cs courses, at least two of which are at or above	15		
POSC 105	The American Political System	3		
GEOG 120	The American Political System World Regional Geography	3		
HIST 104	World History 1648 to Present	3		
HIST 206	United States History since 1865	3		
Additional cre	edits as follows	1.5		

Diversity in the Classroom...
Educational Psychology – Social Aspects
Educational Psychology – Cognitive Aspects

Planning a Course of Instruction.
Seminar: Problems in Teaching History and

Reading in the Content Areas

Student Teaching To be eligible to student teach, Economics Education students must have a g.p.a. of 3.0 in their major and an overall g.p.a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 176) to obtain the student teaching application and other information concerning student teaching policies

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

Social Sciences

CREDITS TO TOTAL A MINIMUM OF 124

HONORS BACHELOR OF ARTS: ECONOMICS OR ECONOMICS EDUCATION

The recipient must complete:

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

ENGLISH

EDUC 201 EDUC 304 EDUC 305

HIST 491

HIST 493

EDUC 420

EDUC 400

The English Department has a widely varied undergraduate program. In the undergraduate literary studies major, students can study literature in English from Britain, America, and around the world. Undergraduates may elect concentrations in journalism, film, drama, ethnic and cultural studies, or business/technical writing, or, if they meet the admission requirements, may elect the program in English education Journalism concentrators undergo intensive training in written journalism and serve on the staff of the University newspaper, The Review, in connection with their study. A number of undergraduate journalism concentrators also gain internship experience with local newspapers, TV stations, and other organizations. The film concentration includes courses in history and theory of film as well as film and literature, Black cinema, and other subjects. The drama concentration allows students to earn the English degree with an emphasis on the study of the theatre and its literature. The ethnic and cultural studies concentration emphasizes multicultural literatures in the Americas, folklore, and media studies. The program in business/technical writing is designed

to prepare students for positions as professional writers or editors in industry and government. This concentration requires internships of qualified students. The major in English education prepares students to teach English in the secondary schools (grades 7-12). Graduates of this program receive the B.A. in English and are eligible for teacher certification in 27 states and the Overseas Dependent Schools System.

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

The following courses may not be counted toward the English major or minor: ENGL 200, 204, 210, 301, and 365, ENGL 307, 308. 309, 310, 407, 408, and 409 may be counted only as part of the journalism concentration; ENGL 312, 410, 411, 412, 413, 414, 415, and 464 may be counted only as part of the concentration in business/ technical writing; and ENGL 384 may be counted only as part of the concentration in English education.

Telephone: (302) 831-2361 http://www.english.udel.edu/

DEGREE: BACHELOR OF ARTS MAJOR: ENGLISH CURRICULUM **CREDITS** See page 78 for University and College requirements. MAJOR REQUIREMENTS Five of the following six courses: **ENGL 202** Biblical and Classical Literature3 **ENGL 205** British Literature 1 ENGL 206 British Literature II **ENGL 300** Texts and Contexts ENGL 324 Shakespeare ENGL 340 or ENGL 341 American Literature Twelve credits at the 300-level or above distributed as follows: a. A course other than Shakespeare in Medieval or Renaissance

literature A course in literature between 1700 and 1900.

- A course in Modern literature
- A course in cultural and theoretical studies.

English courses at or above the 200-level All English majors must take at least one ENGL 480 seminar and can

count only one 200-level elective course (excluding those in the core or in addition to those counted in the core) toward the minimum number of credits for the major.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS MAJOR: ENGLISH CONCENTRATION: BUSINESS/TECHNICAL WRITING

CREDITS

See page 78 for University and College requirements.

ENGL 340 or ENGL 341 American Literature

MAJOR REQUIREMENTS

Five of the following six courses: **ENGL 202** Biblical and Classical Literature ENGL 205 British Literature I ENGL 206 British Literature II **ENGL 300** Texts and Contexts **ENGL 324** Shakespeare

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

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

One of the following three courses	ENGL 300 Texts and Contexts (Concentrators in Ethnic and Cultural Studies must include ENGL 300 as one of the five courses chosen.)
ENGL 415 Writing for the Professions	ENGL 324 Shakespeare
ENGL 411 Rhetoric for Business and Technical Writers 3 ENGL 412 Business and Technical Publication 3 ENGL 414 Technical Editing 3 ENGL 464 Internship in Business/Technical Writing 3	Nine credits at the 300-level or above, distributed as follows: a A course other than Shakespeare in Medieval or Renaissance literature or a course in literature between 1700 and 1900 b A course in Modern literature or a course in cultural and theoretical
Optional:	studies
ENGL 413 Topics in Technical Writing or one other EBT course	c. A literature course ENGL 379 Introduction to Ethnic and Cultural Studies
ELECTIVES	Two other courses at the 300-level or above, to be chosen in consultation with the student's concentration advisor
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. Most concentrators take a core of courses in a technical or business discipline such as Computer Science, Chemistry, Business Administration or Accounting.	All English/Ethnic and Cultural Studies majors must take at least one ENGL 480 seminar and can count only one 200-level course toward the minimum number of credits for the major.
CREDITS TO TOTAL A MINIMUM OF 124	CREDITS TO TOTAL A MINIMUM OF 124
DEGREE: BACHELOR OF ARTS MAJOR: ENGLISH CONCENTRATION: DRAMA	DEGREE: BACHELOR OF ARTS MAJOR: ENGLISH CONCENTRATION: FILM
CURRICULUM CREDITS	CURRICULUM CREDITS
See page 78 for University and College requirements.	See page 78 for University and College requirements. MAJOR REQUIREMENTS
MAJOR REQUIREMENTS	Five of the following six courses:
ENGL 324 Shakespeare 3 Four of the following six courses: 12 ENGL 202 Biblical and Classical Literature ENGL 205 British Literature II ENGL 206 British Literature II ENGL 300 Texts and Contexts	ENGL 202 Biblical and Classical Literature ENGL 205 British Literature I ENGL 206 British Literature II ENGL 300 Texts and Contexts ENGL 324 Shakespeare ENGL 340 or ENGL 341 American Literature
ENGL 340 or ENGL 341 American Literature	Nine credits at the 300-level or above distributed as follows:
One course at the 300-level or above from each of the following groups (2 courses total):	 a A course other than Shakespeare in Medieval or Renaissance literature or a course in literature between 1700 and 1900. b A course in Modern literature or a course in cultural and theoretical studies.
or Literature Between 1700 and 1900	c. A literature course.
Modern Literature	ENGL 217 Introduction to Film
or Cultural and Theoretical Studies	ENGL 318 Studies in Film (variable content, may be repeated once) 3 ENGL 417 Film Theory and Criticism
One other literature course is required. This course may be at the 200-, 300-, or 400-level <i>if</i> one of the courses taken in the above two groups is a 480 seminar. Otherwise, this additional course <i>must</i> be a 480 seminar	All English/Film majors must take at least one ENGL 480 seminar and can count only one 200-level course toward the minimum number of credits for the major.
ENGL 208 Introduction to Drama	ELECTIVES
Three additional courses (approved by the Faculty Advisor),	After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.
ENGL 307, 308, 309, 310, 407, 408, 409 count toward the English major only as part of the concentration in journalism; ENGL 312, 410, 411, 412, 413, 415, 464 count toward the English major only as part of the concentration in Business and Technical Writing; ENGL 200, 204,	CREDITS TO TOTAL A MINIMUM OF
210, 301, 365 do not count toward the English major	MAJOR: ENGLISH
ELECTIVES	CONCENTRATION: JOURNALISM
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	CURRICULUM CREDITS See page 78 for University and College requirements.
CREDITS TO TOTAL A MINIMUM OF 124	MAJOR REQUIREMENTS
DEGREE: BACHELOR OF ARTS MAJOR: ENGLISH	Five of the following six courses: 15 ENGL 202 Biblical and Classical Literature ENGL 205 British Literature ENGL 206 British Literature
CONCENTRATION: ETHNIC AND CULTURAL STUDIES	ENGL 300 Texts and Contexts
CURRICULUM CREDITS	ENGL 324 Shakespeare ENGL 340 or ENGL 341 American Literature
See page 78 for University and College requirements.	Nine credits at the 300-level or above distributed as follows:
MAJOR REQUIREMENTS Five of the following six courses:	 a. A course other than Shakespeare in Medieval or Renaissance literature or a course in literature between 1700 and 1900. b. A course in Modern literature or a course in cultural and theoretical studies.
ENGL 206 British Literature II	c. A literature course

ENGL 307 News Writing and Editing	3
At least nine credits chosen from among the following courses: ENGL 308 Reporter's Practicum FENGL 309 Feature and Magazine Writing ENGL 4107 Copy Editing and Layout ENGL 407 Advanced Reporting ENGL 408 Sports Writing ENGL 409 Topics in Journalism	9
May be taken in addition to the 36 required credits in English: ENGL 466 Internship	1-6
All English/Journalism majors must take at least one ENGL 480 seminar and can count only one 200-level course toward the minimum number of credits for the major	
ELECTIVES	
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	
CREDITS TO TOTAL A MINIMUM OF	124
DEGREE: BACHELOR OF ARTS	
MAJOR: ENGLISH EDUCATION	
CURRICULUM CR	EDITS
See page 78 for University and College requirements.	
Six credits of American History; three credits of British History; three credits of European History; three credits of Philosophy; and three credits of Art History, Theatre, or Music are required Students are encouraged to take these courses within their Arts and Science Breadth Requirements	
MAJOR REQUIREMENTS	
ENGL 202 Biblical and Classical Literature ENGL 205 British Literature I ENGL 206 British Literature II ENGL 300 Texts and Contexts ENGL 302 Advanced Composition ENGL 324 Shakespeare ENGL 340 American Literature to the Civil War ENGL 341 American Literature: Civil War to World War II ENGL 390 English Linguistics	3 3 3 3 3
British literature before 1900 (300-level or above) 20th-century British, American or Comparative literature (300-level or above)	
All English Education majors must take at least one ENGL 480 seminar.	
COMM 251, 255, 312, or 350 or THEA 102 or 226	3
EDUC 201 Diversity in the Classroom EDUC 304 Educational Psychology – Social Aspects EDUC 305 Educational Psychology – Cognitive Aspects ENGL 183 Grammar for English Teachers. ENGL 383 Seminar in Teaching English I ENGL 384 Seminar in Teaching English II ENGL 481 Seminar in Teaching English II EDUC 400 Student Teaching EDUC 403 Adolescent Literature	3 3 3 3
To be eligible to student teach, English Education students must have a g.p.a. of 3.0 in their English major and an overall g.p.a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 176) 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	

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

Eligible students may elect to pursue the Honors degree in English or the Degree with Distinction. Those taking the Honors degree must satisfy all the requirements established by the University Honors Pro-

CREDITS TO TOTAL A MINIMUM OF 124

gram; in addition, they must meet requirements set by the English Department: a minimum of 12 credits in Honors courses in English, not including the thesis (one course must be an Honors Seminar, ENGL 480 Honors); and an Honor thesis.

REQUIREMENTS FOR A MINOR IN ENGLISH

The English Department also offers a program leading to a minor in English. The course of study for the English minor includes ENGL 202, 205, 206, 324 and two additional courses in literature and composition above the 200-level. One course must be in British Literature or Cultural and Theoretical Studies, and one course must be in American Literature. By earning 15 credits in recommended courses at the 300-level, a student may minor in Irish Studies. Required courses include ENGL 351 and HIST 373. A student may also minor in Medieval Studies.

ENVIRONMENTAL SCIENCE

See Geography.

ENVIRONMENTAL STUDIES

See Chemistry and Biochemistry.

EUROPEAN STUDIES

See Continental European Studies.

FOREIGN LANGUAGES AND LITERATURES

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

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

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

Ancient. The Department of Foreign Languages and Literatures administers major programs in Classical Studies, Classics, Latin Studies, and a minor in Classics. Honors Degree programs are also available. The program offers a liberal education in the fullest sense of that term by giving one the means to identify a problem, solve it without losing sight of its larger implications, express the solution

clearly, and persuade others of its validity. Students of the classics learn habits of accuracy and clarity of expression and in the process grapple with the universal ethical, social, and political problems.

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

FOREIGN LANGUAGE TEACHER EDUCATION PROGRAMS

The Department of Foreign Languages and Literatures administers the B.A. program in Foreign Language Education leading to certification for teaching French, German, Italian, Latin, Russian, and Spanish in grades K-12 or in secondary schools only. Those students pursuing teaching certification are encouraged to study in the country where their particular foreign language is spoken. Information on study abroad programs is available through the Department of Foreign Languages and Literatures.

PLACEMENT AND DUPLICATE CREDIT

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

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

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

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

STUDY ABROAD

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

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

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

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

RESIDENCY REQUIREMENT

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

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

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

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

HONORS BACHELOR OF ARTS: FOREIGN LANGUAGES AND LITERATURES; FOREIGN LANGUAGE EDUCATION; HISTORY/FOREIGN LANGUAGE; FOREIGN LANGUAGE/POLITICAL SCIENCE

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

- Foreign Languages and Literatures Concentrations: Classics, French Studies, German Studies, Italian Studies, Latin Studies, Russian Studies, Spanish Studies, Three Languages
- Classical Studies
- · French Education
- German Education
- Italian Education
- Latin Education
- Russian Education
- Spanish EducationHistory/Classics, French, German, Russian, or Spanish
- French, German, or Spanish/Political Science

Honors Degree Requirements

To receive the B.A. with Honors, 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 43 of this catalog).
 - 1. At least six of the Honors credits in the B.A. in Foreign Languages and Literatures or the B.A. in Foreign Language Education must be at the 300-level or above. The Honors thesis for these degrees will normally be written in the target language; with the prior approval of the thesis director and the Department Chair, the thesis may be written in English.
 - 2. For the joint degree with History, at least six of the Honors credits in the major must be at the 300-level or above.
 - 3. 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: CLASSICAL STUDIES
CURRICULUM CREDIT:
See page 78 for University and College requirements.
MAJOR REQUIREMENTS
GREK 101 Elementary Ancient Greek I 3 GREK 102 Elementary Ancient Greek II 3
LATN 213 Intermediate Latin I 3
LATN 213 Intermediate Latin I
Three additional credits in Latin at the 200- or 300-level
Twenty-one credits 21
chosen with prior approval of the advisor and according to option requirements, from the following areas: Anthropology (3 credits), Art History (3 credits), Foreign Languages and Literatures (6 credits), History (6 credits), Philosophy (3 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
Note: See the associate chair of the department for detailed requirements. The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above
DEGREE: BACHELOR OF ARTS MAJOR: FOREIGN LANGUAGES AND LITERATURES
CONCENTRATION: CLASSICS
CURRICULUM CREDITS
See page 78 for University and College requirements.
MAJOR REQUIREMENTS
GREK 101 Elementary Ancient Greek
GREK 102 Elementary Ancient Greek
at or above the 300-level, and at least six credits in each language.
FLLT 202 Biblical and Classical Literature 3 FLLT 316 Classical Mythology 3
FLLT 322 Topics: Classical Literature in Translation 3
Six credits from 200-, 300-, or 400-level courses (including 6 courses in translation) in Foreign Languages and Literatures, Comparative Literature, Linguistics, or other departments, selected in consultation with the advisor
ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.
CREDITS TO TOTAL A MINIMUM OF 124
DEGREE: BACHELOR OF ARTS MAJOR: FOREIGN LANGUAGES AND LITERATURES CONCENTRATION: FRENCH STUDIES
For the different options available under the French Studies concentra-
tion (language and literature, civilization and culture, area studies, peri- od studies, linguistics), students should see their advisor or the associate
chair of the department.
CURRICULUM CREDITS
See page 78 for University and College requirements.
MAJOR REQUIREMENTS
Twelve credits in FREN electives at the 200-level and above
A total of twelve to fifteen credits at the 200-level or above,
ELECTIVES After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.
,
CREDITS TO TOTAL A MINIMUM OF 124

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

	SACHELOR OF ARTS RENCH EDUCATION
CURRICULUA	
	8 for University and College requirements.
MAJOR RI	EQUIREMENTS
REN 211	French Reading & Composition 3
REN 301 REN 302	French Literature: Prose
REN 314	French Phonetics
One of the fo	Illowing courses:
REN 313	Intensive French Composition
REN 306 REN 305	Practical Oral/Written Expression Advanced French Conversation
	llowing courses:
REN 308	Contemporary France II
REN 325	French Civilization I
REN 326	French Civilization II
REN 453	French Civilization III
One of the fo	Illowing courses:
REN 402	Advanced French Composition
REN 403	History & Evolution of French Language
REN 406 ING 440	Advanced French Language Structure of French
	French Literature at the 400-level 6
DUC 201	Diversity in the Classroom
DUC 304	Educational Psychology - Social Aspects 3
DUC 305	Educational Psychology – Cognitive Aspects
EDUC 400 FLLT/LING 42	Student Teaching
LLT/LING 42 LLT/LING 42	
ING/FLLT 42	
or Foreign L	anguage in Elementary School (K-12 certification) option,
equired cour	ses in addition to above:
LLI/EDUC 4	29 Methods of Teaching Foreign/Second Languages in Elementary Schools 3
DUC/LING	476 Second Language Acquisition and Bilingualism 3
DUC 202	Human Development I: Grades K-4
	to student teach, Foreign Language Education students must
iave a g.p.a. f 2 75 Stud	of 3 0 in their French Education major and an overall g.p a ents should consult the teacher education program coordina-
or (see list or	p 176) to obtain the student application and other informa-
	ng student teaching policies
ELECTIVE	S
	courses are completed, sufficient elective credits must be
aken to meet	the minimum credit requirement for the degree
REDITS T	O TOTAL A MINIMUM OF 124
FGREE R	ACHELOR OF ARTS
MAJOR: F	OREIGN LANGUAGES AND LITERATURES RATION: GERMAN STUDIES
	ent options available under the German Studies concentra-
	e and literature, civilization and culture, area studies, peri-
	guistics), students should see their advisor or the associate
hair of the d	epartment.
CURRICULUM	
. •	8 for University and College requirements.
	CQUIREMENTS
welve credits	s in GRMN electives at the 200-level and above
	ve to fifteen credits at the 200-level or above, 12-15
فأبر و حجم حجام	h prior approval of the advisor and according to option
	te from the following great: Gorman Anthropology Art Li-
requiremen	nts, from the following areas: German, Anthropology, Art His- parative Literature, English, Foreign Languages and Litera-

Note: See the associate chair of the department for detailed requirements. The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above DEGREE: BACHELOR OF ARTS MAJOR: GERMAN EDUCATION CURRICULUM CRECUIUM CRECUIUM CRECUIUM CURRICULUM CURRICULUM CORRICULUM CRECUITEMENTS GRAMN 200 German Grammar Review CORRICULUM CORR)IT.
MAJOR: GERMAN EDUCATION CURRICULUM CREE See page 78 for University and College requirements. MAJOR REQUIREMENTS GRMN 200 German Grammar Review or GRMN 205 German Conversation GRMN 211 German Reading and Composition: Short Fiction or GRMN 212 German Reading and Composition: Drama GRMN 305 German Conversation and Composition or GRMN 305 German Conversation and Composition GRMN 306 Practical Oral/Written Expression GRMN 311/312 Introduction to German Literature I and II. GRMN 308 Contemporary Germany II.	
CURRICULUM See page 78 for University and College requirements. MAJOR REQUIREMENTS GRMN 200 German Grammar Review or GRMN 205 German Conversation GRMN 211 German Reading and Composition: Short Fiction or GRMN 212 German Reading and Composition: Drama GRMN 305 German Conversation and Composition or GRMN 306 Practical Oral/Written Expression GRMN 311/312 Introduction to German Literature I and II GRMN 308 Contemporary Germany II	
See page 78 for University and College requirements. MAJOR REQUIREMENTS GRMN 200 German Grammar Review or GRMN 205 German Conversation GRMN 211 German Reading and Composition: Short Fiction or GRMN 212 German Reading and Composition: Drama GRMN 305 German Conversation and Composition or GRMN 306 Practical Oral/Written Expression GRMN 311/312 Introduction to German Literature I and II. GRMN 308 Contemporary Germany II.	
GRMN 200 German Grammar Review or GRMN 205 German Conversation GRMN 211 German Reading and Composition: Short Fiction or GRMN 312 German Reading and Composition: Drama GRMN 305 German Conversation and Composition or GRMN 306 Practical Oral/Written Expression GRMN 311/312 Introduction to German Literature I and II. GRMN 308 Contemporary Germany II	
or GRMN 205 German Conversation GRMN 211 German Reading and Composition: Short Fiction	
GRMN 205 German Conversation GRMN 211 German Reading and Composition: Short Fiction	. 3
or GRMN 212 German Reading and Composition: Drama GRMN 305 German Conversation and Composition or GRMN 306 Practical Oral/Written Expression GRMN 311/312 Introduction to German Literature I and II. GRMN 308 Contemporary Germany II	
GRMN 212 German Reading and Composition: Drama GRMN 305 German Conversation and Composition or GRMN 306 Practical Oral/Written Expression GRMN 311/312 Introduction to German Literature I and II GRMN 308 Contemporary Germany II or	3
GRMN 305 German Conversation and Composition or GRMN 306 Practical Oral/Written Expression GRMN 311/312 Introduction to German Literature I and II. GRMN 308 Contemporary Germany II	
GRMN 306 Practical Oral/Written Expression GRMN 311/312 Introduction to German Literature I and II	3
GRMN 311/312 Introduction to German Literature I and II	
or	6
	3
GRMN 340 Focus on Genre: German Drama, Prose or Poetry	3
or GRMN 355 Special Topics	
One of the following courses:	3
GRMN 403 History of the German Language	
GRMN 406 Advanced German Language LING 460 The Structure of German	
Six credits in GRMN literature at the 400-level	6
EDUC 201 Diversity in the Classroom	
EDUC 304 Educational Psychology – Social Aspects EDUC 305 Educational Psychology – Cognitive Aspects	3
FLLT/LING 421 Methods of Teaching Foreign Languages FLLT/LING 422 Language Syllabus Design	3
LING/FLIT 424 Second Language Testing	3
EDUC 400 Student Teaching	9
For Foreign Language in Elementary School (K-12 certification) option, required courses in addition to above:	
FLLT/EDUC 429 Methods of Teaching Foreign/Second	2
Languages in Elementary Schools EDUC/LING 476 Second Language Acquisition and Bilingualism	3
EDUC 202 Human Development I: Grades K-4	
To be eligible to student teach, Foreign Language Education students must have a g p a. of 3.0 in their German Education major and an overall	
g.p.a. of 2.75. Students should consult the teacher education program	
coordinator (see list on p. 176) to obtain the student application and other information concerning student teaching policies.	
ELECTIVES	
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	
, , , , , , , , , , , , , , , , , , ,	
CREDITS TO TOTAL A MINIMUM OF 12	_

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

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

CURRICULUM	CREDITS
See page 78 for University and College requirements.	
MAJOR REQUIREMENTS	
Twelve credits in ITAL electives at the 200-level and above	
Twelve credits in ITAL literature at the 300 or 400-level (at least six credits must be at the 400-level)	12
fair read six creatis most be at the 400 levely	

A total of twelve to fifteen credits at the 200-level or above, chosen with prior approval of the advisor and according to option requirements, from the following areas: Italian, Anthropology, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Linguistics, Music, Philosophy, Political Science, Theatre	12-13
ELECTIVES After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	

CREDITS TO TOTAL A MINIMUM OF 124

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

CURRICULUA	٨	CREDITS
See page 7	8 for University and College requirements.	
MAJOR RI	EQUIREMENTS	
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	
ITAL 3xx ITAL 3xx ITAL 4xx ITAL 4xx	Literature Civilization Literature Language	
EDUC 201 EDUC 304 EDUC 305 EDUC 400 FLLT/LING 42 LING/FLLT 42	Diversity in the Classroom Educational Psychology – Social Aspects Educational Psychology – Cognitive Aspects Student Teaching 21 Methods of Teaching Foreign Languages 22 Language Syllabus Design	3 3 3 9 3 3
required cour FLLT/EDUC 4	anguage in Elementary School (K-12 certification) option, ses in addition to above: 29 Methods of Teaching Foreign/Second Languages in Elementary Schools	3
have a g.p.a of 2 75. Stud tor (see list or	to student teach, Foreign Language Education students must of 3.0 in their Italian Education major and an overall g.p. a ents should consult the teacher education program coordina np. 176) to obtain the student application and other informand ng student teaching policies	l

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

taken to meet the minimum credit requirement for the degree.

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

See page 78 for University and College requirements.	
MAJOR REQUIREMENTS	
Twelve credits in LATN electives at the 200-level and above Twelve credits in LATN literature at the 300 or 400-level (at least six credits must be at the 400-level)	
(at least six credits must be at the 400-level).	

CREDITS TO TOTAL A MINIMUM OF 124

CREDITS

A total of twelve to fifteen credits at the 200-level or above,	Note: See the associate chair of the department for detailed requirements. The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above
ELECTIVES	DEGREE: BACHELOR OF ARTS
After required courses are completed, sufficient elective credits must be	MAJOR: RUSSIAN EDUCATION CURRICULUM CREDITS
taken to meet the minimum credit requirement for the degree.	See page 78 for University and College requirements.
CREDITS TO TOTAL A MINIMUM OF 124	MAJOR REQUIREMENTS
Note: See the associate chair of the department for detailed requirements. The faculty of each program shall determine specific course requirements, which may be more stringent than those listed above.	RUSS 211 Russian Reading and Composition 3 RUSS 305 Russian Conversation and Composition 3 RUSS 401 Advanced Russian Grammar and Composition 3 Six credits in RUSS literature at the 400-level 6
DEGREE: BACHELOR OF ARTS MAJOR: LATIN EDUCATION	One of the following courses: 3 RUSS 200 Russian Grammar Review RUSS 205 Russian Conversation
CURRICULUM CREDITS	Two of the following courses:
See page 78 for University and College requirements.	RUSS 310 Introduction to Russian Literature I RUSS 312 Introduction to Russian Literature II
MAJOR REQUIREMENTS	RUSS 325 Russian Civilization and Culture
LATN 2xx 6 LATN 3xx and/or LATN 4xx 9 LATN 421 Latin Prose Composition 3	FLLT 327 Topics: Russian Literature in Translation
LATN 431 History of Latin Literature	EDUC 201 Diversity in the Classroom
EDUC 201 Diversity in the Classroom. 3 EDUC 304 Educational Psychology – Social Aspects 3 EDUC 305 Educational Psychology – Cognitive Aspects 3 EDUC 400 Student Teaching 9 FLLT/LING 421 Methods of Teaching Foreign Languages 3	EDUC 305 Educational Psychology – Cognitive Aspects 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
FLIT/LING 422 Language Syllabus Design 3 LING/FLIT 424 Second Language Testing 3	For Foreign Language in Elementary School (K-12 certification) option, required courses in addition to above:
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	FLLT/EDUC 429 Methods of Teaching Foreign/Second Languages in Elementary Schools
EDUC/LING 476 Second Language Acquisition and Bilingualism 3 EDUC 202 Human Development I: Grades K-4 3	To be eligible to student teach, Foreign Language Education students must have a g.p.a. of 3 0 in their Russian Education major and an overall
To be eligible to student teach, Foreign Language Education students must have a g.p a. of 3 0 in their Latin Education major and an overall g.p a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 1.76) to obtain the student application and other informa-	g.p.a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 176) to obtain the student application and other information concerning student teaching policies
tion concerning student teaching policies.	ELECTIVES After required courses are completed, sufficient elective credits must be
ELECTIVES	taken to meet the minimum credit requirement for the degree.
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
CREDITS TO TOTAL A MINIMUM OF 124 DEGREE: BACHELOR OF ARTS	DEGREE: BACHELOR OF ARTS MAJOR: FOREIGN LANGUAGES AND LITERATURES CONCENTRATION: SPANISH STUDIES
MAJOR: FOREIGN LANGUAGES AND LITERATURES CONCENTRATION: RUSSIAN STUDIES For the different options available under the Russian Studies concentration	For the different options available under the Spanish Studies concentration (language and literature, civilization and culture, Spanish area studies, Latin American area studies, period studies, linguistics), students should see their advisor or the associate chair of the department.
(language and literature, area studies, period studies, linguistics), students should see their advisor or the associate chair of the department	CURRICULUM CREDITS
CURRICULUM CREDITS	See page 78 for University and College requirements.
See page 78 for University and College requirements.	MAJOR REQUIREMENTS
MAJOR REQUIREMENTS	Twelve to fifteen credits in SPAN electives at the 200-level and above 12-15
Twelve credits in RUSS electives at the 200-level and above 12 Twelve credits in RUSS literature at the 300 or 400-level 12	Twelve credits in SPAN literature at the 300 or 400-level
(at least six credits must be at the 400-level) FLLT 327 Topics: Russian Literature in Translation 3 FLLT 375 Topics: Russian and Soviet Culture in Translation 3	A total of twelve to fifteen credits at the 200-level or above,
A total of nine credits at the 200-level or above, chosen	Linguistics, Music, Philosophy, Political Science, Theatre
ments, from the following areas: Russian, Art History, Comparative Liter- ature, 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.
ELECTIVES	CREDITS TO TOTAL A MINIMUM OF124
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	Note: See the associate chair of the department for detailed requirements. The faculty of each program shall determine specific course requirements,
CREDITS TO TOTAL A MINIMUM OF 124	which may be more stringent than those listed above.

	Related Work
DEGREE: BACHELOR OF ARTS MAJOR: SPANISH EDUCATION	Six credits from 200-, 300-, or 400-level courses 6 (including courses in translation) in Foreign Languages and Literatures,
CURRICULUM CREDITS	Comparative Literature, or Linguistics, selected in consultation with the advisor.
See page 78 for University and College requirements.	
MAJOR REQUIREMENTS	ELECTIVES
SPAN 201 Spanish Reading and Composition	After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree
SPAN 305 Oral Communication	CREDITS TO TOTAL A MINIMUM OF 124
SPAN 306 Practical Oral/Written Expression	
SPAN 314 Spanish Phonetics and Phonology 3	DEGREE: BACHELOR OF ARTS
One of the following courses:	MAJOR: HISTORY/CLASSICS, FRENCH, GERMAN, RUSSIAN, OR SPANISH
SPAN 326 Latin American Civilization and Culture	CURRICULUM CREDITS
Any three of the following four literature survey courses: 9 SPAN 301 Survey of Spanish Literature SPAN 302 Survey of Spanish Literature SPAN 303 SPAN 304 Survey of Spanish-American Literature3 SPAN 304 Survey of Spanish-American Literature	See page 78 for University and College requirements. MAJOR REQUIREMENTS HIST 101 Western Civilization to 1648
One of the following courses:	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)
Six credits in SPAN literature at the 400-level	One of the following language options:
EDUC 201 Diversity in the Classroom	Classics Civilization: Two classical civilization (or culture) courses: e.g., FLLT 202 (Biblical and Classical Literature) and FLLT 316 (Mythology)
EDUC 400 Student Teaching 9 FLLT/LING 421 Methods of Teaching Foreign Languages 3 FLLT/LING 422 Language Syllabus Design 3	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
LING/FLLT 424 Second Language Testing 3	French
For Foreign Language in Elementary School (K-12 certification) option, required courses in addition to above: FLLT/EDUC 429 Methods of Teaching Foreign/Second	Civilization: FREN 325 (French Civilization I), or FREN 326 (French Civilization II) or FREN 453 (French Civilization III) Literature: FREN 301 (Introduction to French Literature: Prose)
Languages in Elementary Schools	and FREN 302 (Introduction to French Literature: Poetry and Theatre) 6 400-level literature course
To be eligible to student teach, Foreign Language Education students must have a g.p.a. of 3.0 in their Spanish Education major and an overall g.p.a. of 2.75. Students should consult the teacher education program coordinator (see list on p. 176) to obtain the student application and other information concerning student teaching policies.	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
ELECTIVES	Two courses at the 200, 300, or 400-level
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	Russian Civilization: RUSS 325 (Russian Civilization)
CREDITS TO TOTAL A MINIMUM OF 124	and RUSS 312 (Introduction to Russian Literature II) 6 400-level literature course 3 Two courses at the 200, 300, or 400-level 6
DEGREE: BACHELOR OF ARTS MAJOR: FOREIGN LANGUAGES AND LITERATURES CONCENTRATION: THREE LANGUAGES	Spanish Students must choose either the Peninsular (325, 301, 302) or the Latin American (326, 303, 304) track
CURRICULUM CREDITS	Civilization: SPAN 325 (Spanish Civilization and Culture) or SPAN 326 (Latin American Civilization and Culture) 3
See page 78 for University and College requirements.	Literature: SPAN 301 (Survey of Spanish Literature) and
MAJOR REQUIREMENTS	SPAN 302 (Survey of Spanish Literature) 6
First Language	SPAN 303 (Survey of Spanish-American Literature) and
Six first-language elective credits at the 200-level and above	SPAN 304 (Survey of Spanish-American Literature) 6 400-level literature course . 3 Two courses at the 200, 300, or 400-level . 6
Three additional credits at the 400 level	ELECTIVES
Six second-language elective credits at the 200-level and above	After required courses are completed, sufficient elective credits must be
Nine credits in literature at the 300 and 400-level	taken to meet the minimum credit requirement for the degree. Honors Degree: An Honors Degree option is also available; see page 94.
Three additional credits at the 400-level 3	CREDITS TO TOTAL A MINIMUM OF 124
Third Language	Salate is is a minimism of monomonomic 147
Nine to twelve credits of third-language courses (at least three 9-12 credits at or above the 200-level for Western language)	

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

See page 78 for University and College requirements. MAJOR REQUIREMENTS

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

POSC 105	The American Political System
POSC 240 POSC 270	Introduction to International Relations 3 Comparative Politics 3
POSC 310 POSC 441	European Governments 3 Problems of Western European Politics by Country 3
or POSC 442	Problems of Western European Politics
least 2 at the	courses at the 300 or 400-level with at 400-level and at least 2 in the area of Relations
One of the fo	ollowing language ontions:

One of the following language options:

French

FREN 3xx, 4xx			
FREN 4xx (literature) (Newark campus only)	 	 	 3

ocrina.	
GRMN 2xx, 3xx, 4xx (prior to semester abroad)	5
GRMN 3xx, 4xx	
GRMN 4xx (literature) (Newark campus only)	3
Samirh	

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

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

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

Political Science

POSC 441

French

FREN 306 or FREN 406 **FREN 308**

FREN 355 or FREN 455 **HIST 339**

German

GRMN 306 or GRMN 406

GRMN 308 GRMN 355 or GRMN 455

HIST 339

Spanish

SPAN 306 or SPAN 406

SPAN 308

SPAN 355 or SPAN 455

HIST 339

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

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

CREDITS TO TOTAL A MINIMUM OF 124

MINORS

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

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

FRENCH: 18 credits above the 100-level including FREN 211, FREN 301 and 302, one course at the 300 or 400-level, and one other 400-level course.

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

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

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

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

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

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

FRENCH STUDIES MINOR

FREN 2xx, 3xx, 4xx	. 6
FREN 306 or 406	3
FREN 308	
Three of: ARTH 339, FREN 355, FREN 455, HIST 339, POSC 441	
	21
	۷.

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

GERMAN STODIES MINOR	
GRMN 2xx, 3xx, 4xx	6
GRMN 306 or 406	
GRMN 308	
Three of: ARTH 339, GRMN 355, GRMN 455, HIST 339,	POSC 441 9
, , , , , , , , , , , , , , , , , , , ,	21

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 355, SPAN 455, HIST 339, POSC 441	
	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.

INTERNATIONAL HONORS CERTIFICATES

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

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

Information is available in the Foreign Languages and Literatures Department office.

FOREIGN LANGUAGE AND HONORS FOREIGN LANGUAGE CERTIFICATES

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

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

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

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

- 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.

A . I . I		
FREN 206	Session in Caen, France or Fort de France, Martinique: Culture through Conversation	CREDITS
and one of th FREN 207 FREN 208	e following: Contemporary Caribbean World (Martinique) Contemporary France I (France)	3
Delaware Ca FREN 211 (or FREN 3xx	mpus: - higher) French Reading and Composition	3
German C	Certificate Courses	
Study Abroad GRMN 206	Certificate Courses I Session in Bayreuth, Germany: Culture through Conversation Contemporary Germany I	CREDITS
Study Abroad GRMN 206 GRMN 208 Delaware Ca GRMN 211 (Session in Bayreuth, Germany: Culture through Conversation Contemporary Germany I	CREDITS 3 3

	r tificate Courses In in Siena, Italy:		CREDITS
ITAL 206 ITAL 208	Culture through Convers	ation	3
	nigher) Italian Reading	and Composition: Short Fiction	
Alternate	Plan for Italian Ce	rtificate	
Spring Semes	ter in Siena: t the 200- 300- or 400J	evel	CREDITS
plus one of the ARTH 339 HIST 339	e following, also taught a Art and Architecture of E Topics in Modern Europe		3
Japanese	Certificate Courses	5	
JAPŃ 206	Session in Kobe, Japan: Culture through Convers Contemporary Japan I	ation	CREDITS 3
Delaware Car		10	_
	higher) Japanese Gran	nmar and Composition	
Spanish Co	ertificate Courses ((Spain or Latin America)	
Study Abroad SPAN 206	Session in Spain or Latin Culture through Convers	America: ation	CREDITS
and one of the	following:	.) (2
		erica I	
	higher, excluding 205)	Spanish Reading and Compositi	

GEOGRAPHY

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

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

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

Telephone: (302) 831-2294

http://www.udel.edu/Geography/geog.html

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

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

DECIDEE, BACHELOD OF ADTO

INTERDEPARTMENTAL AND DOUBLE MAJORS

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

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

	ACHELOR OF ARTS EOGRAPHY	
CURRICULUM		CREDITS
See page 78	for University and College requirements.	
MAJOR RE	QUIREMENTS	
GEOG 101 GEOG 106 GEOG 152 GEOG 220 GEOG 230 GEOG 235 GEOG 255	owing natural geography courses: Physical Geography: Climatic Processes Physical Geography: Land Surface Processes Climate and Life Meteorology Humans and the Earth Ecosystem Conservation of Natural Resources Applied Climatology	
GEOG 102 GEOG 120 GEOG 203 GEOG 210 GEOG 225	owing human geography courses: Human Geography World Regional Geography Cultural Geography Economic Geography Historical Geography of the United States Conservation: Global Issues	6
GEOG 250 GEOG 270	owing methods courses: Computer Methods in Geography Map Communication and Design Map and Air Photo Interpretation	3-4
Nine credits se at the 300 c	elected from geography courses	9
Six elective cre at the 200,	dits selected from geography courses	6
	courses are completed sufficient elective credits must be the minimum credit requirement for the degree.	
CREDITS TO	TOTAL A MINIMUM OF	124
	ACHELOR OF ARTS EOGRAPHY EDUCATION	, 4
CURRICULUM		CREDITS
	for University and College requirements. QUIREMENTS	
GEOG 101 GEOG 106 GEOG 152 GEOG 220 GEOG 230 GEOG 235 GEOG 235	owing natural geography courses: Physical Geography: Climatic Processes Physical Geography: Land Surface Processes Climate and Life Meteorology Humans and the Earth Ecosystem Conservation of Natural Resources Applied Climatology	6-7

Two of the following human geography courses:

CKEDIIS .		
g p.a. of 3.0 consult the tec obtain the stu student teach	to student teach, Geography Education students must have a in their major and an overall g.p. a. of 2.75. Students should acher education program coordinator (see list on p. 176) to dent teaching application and other information concerning ing policies.	124
EDUC 201 EDUC 304 EDUC 305 HIST 491 HIST 493 EDUC 420 EDUC 400	Diversity in the Classroom Educational Psychology – Social Aspects Educational Psychology – Cognitive Aspects Planning a Course of Instruction Seminar: Problems in Teaching History and Social Sciences Reading in the Content Areas Student Teaching	3 3 3 3 1
Additional credits in	edits as follows:	12
ECON 151 ECON 152 POSC 105 HIST 104 HIST 206	Introduction to Microeconomics Introduction to Macroeconomics The American Political System World History 1648 to Present . United States History since 1865	3
Six credits se	or 400-level (GEOG 445 strongly recommended) lected from geography courses 1, 300, or 400-level	ć
Nine credits	selected from geography courses	9
One of the for GEOG 250 GEOG 270 GEOG 272	Illowing methods courses: Computer Methods in Geography Map Communication and Design Map and Air Photo Interpretation	
GEOG 203 GEOG 210 GEOG 225 GEOG 236	Cultural Geography Economic Geography Historical Geography of the United States Conservation: Global Issues	

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

DEGREE: BACHELOR OF SCIENCE MAJOR: ENVIRONMENTAL SCIENCE CURRICULUM **CREDITS** UNIVERSITY REQUIREMENTS ENGL 110 Critical Reading and Writing (minimum grade C-) Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content (see p. 57) COLLEGE REQUIREMENTS Writing: (minimum grade C-) A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81) Foreign Language: Completion of the intermediate-level course (107 or 112 or 214) in a given language. 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

Understanding and appreciation of the creative arts and humanities. At

exemption examination

Breadth Requirements (See page 83)

least two areas must be represented

GEOG 102 Human Geography GEOG 120 World Regional Geography

C D			
Group B The study of culture and institutions over time. At least two areas must be represented.			
Empirically be	Group C		
MAJOR RE	QUIREMENTS		
GEOL 107 BISC 207/20 GEOG 220 GEOG 250 BISC 302 BISC 312 GEOG 412 GEOL 414 GEOG 450, 0	General Geology B Introductory Biology I and II. Meteorology		
	al courses from within owing three areas of concentration:		
Atmospheri	ic Environment		
GEOG 343 GEOG 420 GEOG 423 GEOG 451 GEOG 453 GEOG 455	Climatic Geomorphology Atmospheric Physics Atmospheric Dynamics Microclimatology Synoptic Climatology Water Budget in Environmental Analysis		
Biological E	nvironment		
BISC 306 BISC 494 BISC 495 BISC 637 BISC 641	General Physiology Experimental Ecology Evolution Population Ecology Microbial Ecology		
Geology GEOL 203	Adia and any and Countilla amounts.		
GEOL 303 GEOL 304 GEOL 305	Mineralogy and Crystallography Sedimentology Stratigraphy Structural Geology3		
Three addition	nal courses taken from the following list or from the courses		
listed under th	e three areas of concentration above. At least one course le the chosen area of concentration. For students following		
	rack, two courses must be 400-level geology courses 8-12		
BISC 301	Molecular Biology of the Cell		
BISC 321	Environmental Biology		
BISC 324 BISC 371	Invertebrate Zoology Introduction to Microbiology		
BISC 608	Genetic Toxicology		
BISC 660	Environmental Physiology		
CHEM 213 CIEG 331	Elementary Organic Chemistry		
GEOG 106	Introduction to Environmental Engineering Physical Geography: Land Surface Processes		
GEOG 152	Climate and Life		
GEOG 230	Humans and the Earth Ecosystem		
GEOG 235 GEOG 236	Conservation of Natural Resources Conservation: Global Issues		
GEOG 255	Applied Climatology		
GEOG 272	Map and Air Photo Interpretation		
GEOG 320	Water and Society		
GEOG 330 GEOG 342	Biogeography Bioclimatology		
GEOG 351	Urban Climatology		
GEOG 357	Paleoclimatology		
GEOG 430	Conservation Forest Ecosystems		
GEOG 471 GEOG 474			
	Advanced Geographic Information Systems		
GEOG 681			
GEOG 681 GEOL 204	Advanced Geographic Information Systems Introduction to Environmental Remote Sensing Remote Sensing of Environment Properties of Rocks and Minerals		
GEOG 681 GEOL 204 GEOL 402	Advanced Geographic Information Systems Introduction to Environmental Remote Sensing Remote Sensing of Environment Properties of Rocks and Minerals History of the Earth		
GEOG 681 GEOL 204	Advanced Geographic Information Systems Introduction to Environmental Remote Sensing Remote Sensing of Environment Properties of Rocks and Minerals History of the Earth Regional Geology of North America		
GEOG 681 GEOL 204 GEOL 402 GEOL 403 GEOL 407 GEOL 411	Advanced Geographic Information Systems Introduction to Environmental Remote Sensing Remote Sensing of Environment Properties of Rocks and Minerals History of the Earth Regional Geology of North America Igneous and Metamorphic Petrology Quantitative Geomorphology		
GEOG 681 GEOL 204 GEOL 402 GEOL 403 GEOL 407 GEOL 411 GEOL 412	Advanced Geographic Information Systems Introduction to Environmental Remote Sensing Remote Sensing of Environment Properties of Rocks and Minerals History of the Earth Regional Geology of North America Igneous and Metamorphic Petrology Quantitative Geomorphology Geological Approaches to Archaeology and History		
GEOG 681 GEOL 204 GEOL 402 GEOL 403 GEOL 407 GEOL 411 GEOL 412 GEOL 415	Advanced Geographic Information Systems Introduction to Environmental Remote Sensing Remote Sensing of Environment Properties of Rocks and Minerals History of the Earth Regional Geology of North America Igneous and Metamorphic Petrology Quantitative Geomorphology Geological Approaches to Archaeology and History General Geomorphology		
GEOG 681 GEOL 204 GEOL 402 GEOL 403 GEOL 407 GEOL 411 GEOL 412	Advanced Geographic Information Systems Introduction to Environmental Remote Sensing Remote Sensing of Environment Properties of Rocks and Minerals History of the Earth Regional Geology of North America Igneous and Metamorphic Petrology Quantitative Geomorphology Geological Approaches to Archaeology and History		
GEOG 681 GEOL 204 GEOL 402 GEOL 403 GEOL 407 GEOL 411 GEOL 412 GEOL 415 GEOL 421 GEOL 428 GEOL 431	Advanced Geographic Information Systems Introduction to Environmental Remote Sensing Remote Sensing of Environment Properties of Rocks and Minerals History of the Earth Regional Geology of North America Igneous and Metamorphic Petrology Quantitative Geomorphology Geological Approaches to Archaeology and History General Geomorphology Environmental and Applied Geology		

General Geochemistry

GEOL 446

GEOL 460 MAST 482	Field Geology in the Western States Introduction to Ocean Sciences
PHYS 208 PLSC 204	Fundamentals of Physics II Introduction to Soil Science
POSC 350	Politics and the Environment
MATH 241/2	242/243 Analytic Geometry and Calculus
CHEM 103/	104 General Chemistry
PHYS 207	Fundamentals of Physics I
or	
PHYS 201	Introductory Physics I
One of the fo	llowing six courses: 3
MATH 302	Ordinary Differential Equations
MATH 349	Elementary Linear Algebra
STAT 450	Statistics for Engineering & Physical Sciences
STAT 475	Statistics for Environmental Sciences
STAT 656	Biostatistics
STAT 657	Statistics for Earth Sciences
ELECTIVE	•

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

CREDITS TO TOTAL A MINIMUM OF 127

GEOLOGY

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

Advanced undergraduate geology students are encouraged to undertake research, under the supervision of the faculty, in areas such as geochemistry, geophysics, igneous and metamorphic petrology, micropaleontology and paleontology, mineralogy, paleomagnetics, sedimentary petrology, stratigraphy, and structural geology. As an additional resource, the Department maintains close ties with the Delaware Geological Survey and with the College of Marine Studies.

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

Telephone: (302) 831-2569

http://www.udel.edu/geology/geology.html

BACHELOR OF SCIENCE DEGREE IN GEOPHYSICS

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

DEGREE: BACHELOR OF ARTS MAJOR: GEOLOGY

CHRRICHHIM **CREDITS** Superior figures indicate year or years in which the course is normally

taken, i.e., ¹freshman year, ²sophomore year, etc

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

GEOL 107	General Geology I	 4
GEOL 203	Mineralogy and Crystallography Properties of Rocks and Minerals	 3 4
GEOL 204	Properties of Rocks and Minerals	 4 ²

GEOL 301 Systematic and Evolutionary Paleontology 33 GEOL 303 Sedimentology 33 GEOL 304 Stratigraphy 33 GEOL 305 Structural Geology 33 GEOL 402 History of the Earth 34 GEOL 407 Igneous and Metamorphic Petrology 34 GEOL 452 Plate Tectonics and Geophysics 34	Foreign Language: 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.
Three credits of field geology (taught only in the summer; see department chair for other acceptable courses): 3 3,4 GEOL 432 Recent Sedimentary Environment GEOL 460 Field Geology in the Western States CHEM 103/104 General Chemistry 82 CHEM 103/104 Introductory Physics 83	Breadth Requirements (See page 83) A total of eighteen credits from Groups A, B and C is
Mathematics courses through college-level trigonometry 3-4 1 ELECTIVES	Group B: The study of culture and institutions over time. Group C: Empirically based study of human beings and their environment
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree	MAJOR REQUIREMENTS
CREDITS TO TOTAL A MINIMUM OF	GEOL 107 General Geology I 4 1 GEOL 203 Mineralogy and Crystallography 32 GEOL 204 Properties of Rocks and Minerals 4 GEOL 301 Systematic and Evolutionary Paleontology 33 GEOLOGO Systematic and Evolutionary Paleontology 33
DEGREE: BACHELOR OF ARTS MAJOR: GEOLOGY CONCENTRATION: PALEOBIOLOGY CURRICULUM CREDITS	GEOL 303 Sealmentology 3 GEOL 304 Stratigraphy 33 GEOL 305 Structural Geology 33,4 GEOL 402 History of the Earth 34 GEOL 407 Igneous and Metamorphic Petrology 32,4
Superior figures indicate year or years in which the course is normally taken, i.e., 1freshman year, 2sophomore year, etc.	Six credits from the following:
See page 78 for University and College requirements. MAJOR REQUIREMENTS	(see department chair for other acceptable courses) GEOL 460 Field Geology in the Western States GEOL 432 Recent Sedimentary Environments
GEOL 107 General Geology I 41 GEOL 203 Mineralogy and Crystallography 32 GEOL 204 Properties of Rocks and Minerals 42 GEOL 301 Systematic and Evolutionary Paleontology 33 GEOL 303 Sedimentology 33 GEOL 304 Stratigraphy 33 GEOL 305 Structural Geology 34 GEOL 402 History of the Earth 34 GEOL 466 Independent Study 34	MATH 241 Analytic Geometry and Calculus A 4 1 CHEM 103/104 General Chemistry 8 2 PHYS 201 Introductory Physics 4 3 1 World February 8 1 World February 8 1 World February 8 WATH 242 Analytic Geometry and Calculus B PHYS 202 Introductory Physics 1 STAT 205 Statistical Methods 3 3 3 3 3 3 3 3 3
Three credits of field geology (taught only in the summer; see department chair for other acceptable courses): 3 ^{3,4} GEOL 432 Recent Sedimentary Environment GEOL 460 Field Geology in the Western States	Two of the following: 7-8 ²⁻⁴ BISC 207 Introductory Biology I BISC 208 Introductory Biology II Elective supporting science course (see department chair for a list of approved courses)
BISC 207/208 Introductory Biology I and II 8 1 BISC 302 General Ecology 33 BISC 324 Invertebrate Zoology 44 BISC 442 Vertebrate Morphology (recommended) 3 BISC 495 Evolution 34 STAT 201/202 Introduction to Statistics I and II 64	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
CHEM 103/104 General Chemistry 82 MATH 115 Pre-calculus 31	
ELECTIVES	REQUIREMENTS FOR THE MINOR IN GEOLOGY
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirements for the degree CREDITS TO TOTAL A MINIMUM OF	The minor consists of at least 18 credit hours in geology. The requirements are: GEOL 107; GEOL 203; at least two of the following: GEOL 204, 301, 303, 304, 305; any 400-level geology course or courses must be used to obtain the remaining credits to reach a total of 18.
DEGREE: BACHELOR OF SCIENCE MAJOR: GEOLOGY CURRICULUM CREDITS	DEGREE: BACHELOR OF ARTS MAJOR: EARTH SCIENCE EDUCATION
Superior figures indicate year or years in which the course is normally taken, i.e., ¹ freshman year, ² sophomore year, etc	CURRICULUM CREDITS Superior figures indicate year or years in which the course is normally
UNIVERSITY REQUIREMENTS	taken, i e , ¹freshman year, ²sophomore year, etc. See page 78 for University and College requirements.
ENGL 110 Critical Reading and Writing (minimum grade C-) 3 1-4 Three credits in an approved course or courses stressing 3 1-4 multicultural, ethnic, and/or gender-related content (see p. 57)	MAJOR REQUIREMENTS
COLLEGE REQUIREMENTS	GEOG 101 Physical Geography: Climatic Processes 3 1-4 GEOL 105/115 General Geology and Laboratory 4 1
Writing: (minimum grade C-)	GEOL 107 General Geology 4 1 GEOL 106/116 General Geology and Laboratory 4 1 GEOL 203 Mineralogy and Crystallography 3 2 GEOG 220 Meteorology 3 1.4 GEOG 235 Conservation of Natural Resources 3 1.4 GEOL 303 Sedimentology 3 3

GEOG 343	Climatic Geomorphology	3 1-4
or GEOG 255	Applied Climatology	
PHYS 133 PHYS 201/2 CHEM 103 BISC 195	General Chemistry Biological Evolution	8 1,2 4 1,2 3 1-4
MATH 221 MAST 200	Calculus I The Oceans	3 ./-
One of the fo (see department GEOL 432 GEOL 460	llowing: ent chair for other acceptable courses) Recent Sedimentary Environments Field Geology in the Western States	33,4
EDUC 201 EDUC 304 EDUC 305 SCEN 491 EDUC 420 EDUC 400	Reading in the Content Area Student Teaching	3 1-4 3 1-4 3 1-4 4 4 1 1-4 9 4
a g.p.a. of 2 cal science co the teacher ed	to student teach, Earth Science Education students must have 75 in their geology, geography, marine studies, and biologi- ourses and an overall g p.a. of 2.5. Students should consult ducation program coordinator (see list on p. 176) to obtain aching application and other information concerning student cies	
CREDITS T	O TOTAL A MINIMUM OF 1	24
	ACHELOR OF SCIENCE	
CURRICULUM		DITS
Superior figur taken, i.e., ¹ fr	es indicate year or years in which the course is normally reshman year, ² sophomore year, etc.	
	TY REQUIREMENTS	. 1
Three credits i multiculture	Critical Reading and Writing (minimum grade C-) in an approved course or courses stressing	3 ¹ -4
	REQUIREMENTS	33,4
A second writ two papers w extended facu must be taken courses are no	nimum grade C-} ing course involving significant writing experience including ith a combined minimum of 3,000 words to be submitted for ilty critique of both composition and content. This course after completion of 60 credit hours. Appropriate writing ormally designated in the semester's Registration Booklet. urses approved for second writing requirement, page 81.)	3 ''
Breadth Re	quirements (See page 83) nteen credits from Groups A, B and C is	a 1-4
required with	six credits in each group. The six credits from each group the same area.	Ü
	erstanding and appreciation of the creative arts and humanities. study of culture and institutions over time.	
	pirically based study of human beings and their environment.	
	QUIREMENTS	
Within the L		. 1
GEOL 107 GEOL 203 GEOL 204 GEOL 303 GEOL 305 GEOL 402 GEOL 451 GEOL 452 GEOL 453 GEOL 453	General Geology I Mineralogy and Crystallography Properties of Rocks and Minerals Sedimentology Structural Geology History of the Earth Geophysical Field Methods Plate Tectonics and Geophysics Elementary Geophysics II	3 ² 4 ³ 3 ³ 3 ⁴ 3 ^{3,4} 3 ⁴ 3 ⁴
GEOL 460	Field Geology in the Western States	30,-
GEOL 301 GEOL 304 GEOL 407	lowing three courses: Systematic and Evolutionary Paleontology Stratigraphy Igneous and Metamorphic Petrology	3 °
PHYS 207/20 PHYS 208 PHYS 209		4 ² 3 ² 3 ^{3,4}
. , , , , , , , , , , , , , , , , , , ,	man amandin for occasinate	J

One of the fo	llowing four courses: 3-4 ^{3,4}
PHYS 313	Physical Optics
PHYS 603	Electricity and Magnetism I
(If PHYS 603 i	is selected, PHYS 604 is strongly encouraged as an elective course.)
PHYS 616	Kinetic Theory and Thermodynamics
PHYS 631	Acoustics
CISC 106	General Computer Science for Engineers 3 1,2 1,2 1,2 2,2 43 Analytic Geometry and Calculus A, B and C 12 1,2 Ordinary Differential Equations I 3 2 General Chemistry 4
MATH 241/2	42/243 Analytic Geometry and Calculus A, B and C. 12 ^{1,2}
MATH 302	Ordinary Differential Equations I
CHEM 103	General Chemistry 4 ²
	O TOTAL A MINIMUM OF 125
41/20114 1	

HISTORY

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

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

Telephone: (302) 831-2371 http://www.udel.edu/clio/

DEGREE: BACHELOR OF ARTS MAJOR: HISTORY	
CURRICULUM	

MAJOR R	EQUIREMENTS
HIST 101	Western Civilization to 1648 3
HIST 102	Western Civilization: 1648 to the Present
	Seminar, 3
	e on the history of Asia, Africa, Latin America,
	ncient World
History cours	es at or above the 300-level
History semir	nar at the 400-level or above
(excluding	HIST 491 and 493 and Independent Study)
History cours	е
ELECTIVE	es :

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

See page 78 for University and College requirements.

CREDITS TO TOTAL A MINIMUM OF 124

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

CREDITS

See page 78 for University and College requirements. MAJOR REQUIREMENTS

•			
HIST 101	Western	Civilization to 1648	3
HIST 102	Western	Civilization: 1648 to the Present	3
HIST 268	Seminar	Companies (pagain) com pagain and the companies of the co	3
History course	on the h	istory of Asia, Africa, Latin America,	
		Topograms to the state of the first of the state of the s	3
Seven courses in the field of emphasis. With written approval of the advisor,			
a student may take two ofthese courses outside the Department of History 21			

CREDITS

(excluding HIST 491 and 493 and Independent Study) ELECTIVES	DEGREE: BACHELOR OF ARTS MAJOR: HISTORY CONCENTRATION: JOURNALISM		
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	CURRICULUM CREDITS		
CREDITS TO TOTAL A MINIMUM OF 124	See page 78 for University and College requirements. MAJOR REQUIREMENTS		
DEGREE: BACHELOR OF ARTS MAJOR: HISTORY CONCENTRATION: EUROPEAN HISTORY CURRICULUM CREDITS	HIST 101 Western Civilization to 1648 3 HIST 102 Western Civilization: 1648 to the Present 3 HIST 268 Seminar 3 History course on the history of Asia, Africa, Latin America, or the Ancient World 3 History courses at or above the 300-level 12		
See page 78 for University and College requirements. MAJOR REQUIREMENTS HIST 101 Western Civilization to 1648	History seminar at the 400-level or above (excluding HIST 491 and 493 and Independent Study) History course 3 ENGL 307 New 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		
credits to meet the minimum credit requirement for the degree.	ELECTIVES After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. CREDITS TO TOTAL A MINIMUM OF		
DEGREE: BACHELOR OF ARTS MAJOR: HISTORY CONCENTRATION: GLOBAL HISTORY CURRICULUM CREDITS See page 78 for University and College requirements.	DEGREE: BACHELOR OF ARTS MAJOR: HISTORY EDUCATION CURRICULUM CREDITS		
MAJOR REQUIREMENTS	See page 78 for University and College requirements.		
HIST 101 Western Civilization to 1648	HIST 101 Western Civilization to 1648		
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	History courses on the history of Asia, Africa, or Latin America 6 Course work must include a three credit History seminar at or above the 400 level (excluding HIST 491, 493, and independent study) and twelve additional credits at or above the 300 level		
DEGREE: BACHELOR OF ARTS MAJOR: HISTORY CONCENTRATION: POLICY HISTORY CURRICULUM CREDITS	ECON 151 Introduction to Microeconomics 3 ECON 152 Introduction to Macroeconomics 3 POSC 105 The American Political System 3 GEOG 120 World Regional Geography 3 Additional credits as follows: 15 3 credits in Economics, 6 credits in Political Science, 6 credits in Geography		
See page 78 for University and College requirements. MAJOR REQUIREMENTS HIST 101 Western Civilization to 1648	EDUC 201 Diversity in the Classroom		
ELECTIVES After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	176) to obtain the student teaching application and other information concerning student teaching policies. CREDITS TO TOTAL A MINIMUM OF		

DEGREE: BACHELOR OF ARTS

MAJOR: HISTORY/CLASSICS, FRENCH, GERMAN, RUSSIAN, SPANISH
CURRICULUM CREDITS
See page 78 for University and College requirements.
MAJOR REQUIREMENTS
HIST 101 Western Civilization to 1648
One of the following language options:
Classics Civilization: Two classical civilization (or culture) courses: e.g., FLLT 202 (Biblical and Classical Literature) and FLLT 316 (Mythology)
French Civilization: FREN 325 (French Civilization I), or FREN 326
(French Civilization II) 3 Literature: FREN 301 (Introduction to French Literature: Prose) and FREN 302 (Introduction to French Literature: Poetry and Theatre) 6 400-level literature course 3 Two courses at the 200, 300, or 400-level 6
German Civilization: GRMN 325 (German Civilization and Culture)
Literature: GRMN 311 (Introduction to German Literature I) and GRMN 312 (Introduction to German Literature II) 400-level literature course
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)
or SPAN 303 (Survey of Spanish-American Literature) and SPAN 304 (Survey of Spanish-American Literature) 6 400-level literature course
ELECTIVES
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree

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

CREDITS TO TOTAL A MINIMUM OF 124

To receive the B.A. with Honors, students must complete the following:
1 All requirements for the B.A. with a major in History, History
Education, or History/Foreign Language.

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

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

REQUIREMENTS FOR A MINOR IN HISTORY

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

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

INTERNATIONAL RELATIONS

(See Political Science)

IRISH STUDIES

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

JEWISH STUDIES

The College of Arts and Science offers an undergraduate minor in Jewish Studies. The minor involves the study of the texts, histories, and culture of the Jewish people which developed alongside and within Western and non-Western civilization, in every place where Jewish people and Jewish culture have existed. 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.

Telephone: (302) 831-3324 http://www.udel.edu/jsp/index.html

REQUIREMENTS FOR THE MINOR IN JEWISH STUDIES

The interdisciplinary minor in Jewish Studies requires 15 credits of Jewish Studies courses (all of which are cross-listed with other departments, such as history or philosophy or English), including the following:

JWST/ENGL 349 Introduction to Jewish Sources ... 3
JWST/PHIL 208 Introduction to Jewish Philosophy 3

The remaining 9 credits may be distributed among the other Jewish Studies courses, including independent studies (per approval of the Program Director). Only 3 credits of Hebrew language can count towards the minor.

JOURNALISM

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

LATIN AMERICAN STUDIES

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

Many career opportunities are open to students who major in Latin American Studies. Graduates of the program can work in governmental services and other fields in which it is important to work with Latin American topics. There is also employment in research and teaching, libraries, public relations, public administration, journalism and publishing. In addition, Latin American Studies graduates will have an unusually good background for advanced study in international business or international law.

Telephone: (302) 831-0794 E-mail: salchon@udel.edu

http://www.udel.edu/AreaStudies/latam.html

DEGREE: BACHELOR OF ARTS MAJOR: LATIN AMERICAN STUDIES

CURRICULUM CREDITS
See page 78 for University and College requirements. Note:
The Foreign Language College requirement must be fulfilled in
Spanish. Completion of PORT 107 is also highly recommended.

MAJOR REQUIREMENTS

MAJOR RE	EQUIREMENTS	
ANTH 265 ANTH 375	High Civilizations in the Americas 3 Peoples and Cultures of Modern Latin America 3	
or ANTH 380 GEOG 226 HIST 135 POSC 426 SPAN 326 SPAN 303 or	Peoples and Cultures of Mexico and Central America Geography of Latin America	
SPAN 304	Survey of Spanish-American Literature II	
One of the fo ANTH 323 ANTH 327 ANTH 337 ANTH 338 HIST 334 HIST 430 HIST 477	Illowing seven courses: 3 Prehistory of South America Peoples of the Caribbean South American Indians Arts and Crafts of Native South America History of Mexico 20th Century Latin American Revolutions Studies in Latin American History	
One of the fo POSC 431 POSC 450	llowing two courses:	
One of the fo SPAN 415 SPAN 430 SPAN 443	llowing three courses: 3 Latin American Literature in its Political Context Latin American Novel and Cinema Mexican Literature	
Suggested Course:		
ECON 311	Economics of Developing Countries 3 (Prerequisites: ECON 151, ECON 152)	

ELECTIVES

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

Study Abroad

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

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR A MINOR IN LATIN AMERICAN STUDIES

Purpose. This is an interdisciplinary program designed to provide 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, 334, 430, 477 GEOG 226 SPAN 303, 304, 326, 415, 430, 441, 443 ANTH 265, 323, 327, 330, 337, 338, 375, 380 POSC 426, 431, 450

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

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

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

LEGAL STUDIES

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

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

This program is designed for any undergraduate student who is interested in examining the law from a variety of perspectives. Legal studies is not a "pre-law" program, and it does not offer para-legal training. It is, however, a suitable minor for those who plan to pursue professional training. For information on Pre-Law Advisement, see page 68.

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

Telephone: (302) 831-8041 http://www.udel.edu/Legal.Studies/

REQUIREMENTS FOR A MINOR IN LEGAL STUDIES

CURRICULU	M	CREDITS
POSC 380 LEST 301 LEST 401	Introduction to Law (same as LEST 380)	3
Three course	Senior Seminarss from the following list. At least two of	
these courses must be from outside the requirements of the stu- dent's major and outside his or her major department. These two		

Accounting

ACCT 350	Business Law
ACCT 351	Business Law
ACCT 352	Law and Social Issues in Business

Communication

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

Criminal Justice

CRJU 202 Problems of Criminal Judiciary
CRJU 203 Problems of Corrections

CRIU 320 CRIU 346 CRIU 347 CRIU 375 CRIU 425 CRIU 428 CRIU 450	Introduction to Criminal Law Psychology and the Law (same as PSYC 346) The Jury: Guilty or Not Guilty Criminal Procedure Criminal Law and Social Policy Corporate Crime (same as SOCI 428) Prisoners and the Law		
CRJU 456 Economics	Lawyers and Society (same as SOCI 456)		
ECON 306 ECON 360 ECON 408 ECON 461 ECON 463	Economic Theory of Politics (same as POSC 306) Government Regulation of Business Economics of Law Industrial Organization and Antitrust Economics of Regulation		
History HIST 309 HIST 376	U S. Business and Political Economy English Legal and Constitutional History		
Philosophy			
PHIL 202 PHIL 308 PHIL 446	Contemporary Moral Problems Justice and Equality Philosophy of Law		
Political Sci	Political Science and International Relations		
POSC 306 POSC 380 POSC 402 POSC 404 POSC 405 POSC 406 POSC 423 POSC 413	Economic Theory of Politics (same as ECON 306) Introduction to Law Civil Liberties I Judicial Processes Constitutional Law of the United States Civil Liberties II Congress and Public Policy Problems in American Government: Gender, Sex and Law		
Psychology			
PSYC 346 PSYC 347	Psychology and the Law (same as CRJU 346) The Jury: Guilty or Not Guilty (taken with CRJU 347)		
Sociology SOCI 330 SOCI 345 SOCI 428 SOCI 456 Women's St	Population, Law and Society Sociology of Law Corporate Crime (same as CRJU 428) Lawyers and Society (same as CRJU 456)		
	Gender Sex and American Law Isame as POSC 4131		

LINGUISTICS

The Department of Linguistics offers two minors at the undergraduate level: one in Linguistics and one in Cognitive Science. The department also has course templates for individualized Bachelor of Arts in Liberal Studies degrees in Pre-professional Speech Pathology, and in Cognitive and Linguistic Science. The department offers courses in Linguistics and Cognitive Science at the introductory, intermediate, and advanced levels in both applied and theoretical areas. Many of the courses fulfill the Group A, Group C, and Group D General Education Requirement in the College of Arts and Science as well as the University's Multicultural Requirement.

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

REQUIREMENTS FOR THE MINOR IN LINGUISTICS

The minor in linguistics requires 18 credits, distributed as follows:		
	Introduction to Linguistics	
One of the following:		
LING 407	Phonology I	
LING 409	Syntax I	
LING 477	Structure of English	
LING 491	Semantics I	
Any four additional LING courses, two of which must be at the 300-level or above		

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

COGNITIVE SCIENCE MINOR

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

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

A. All of the following:		
CGSC 270	Introduction to Cognitive Science	
LING 101 PSYC 201	Introduction to Linguistics General Psychology	
B. One of the following:		
CISC 105	General Computer Science	
CISC 106	General Computer Science for Engineers	
CISC 181	Introduction to Computer Science (restriction: programming experience)	
	(coreq: MATH 115, MATH 171 or MATH 241)	
C. One of the following:		
LING 409	Syntax I (prereq: LING 101)	
LING 491 CGSC 480	Semantics I (prereq: LING 101) Computers and the Mind	
CGSC 340	Cognition (prereq: PSYC 309)	
D. One of the following:		
PSYC 310	Sensation & Perception (prereq: PSYC 309)	
CGSC 314 CISC 220	Brain & Behavior Data Structures (prereg: CISC 181)	
CGSC 681	Artificial Intelligence (prereq: CISC 220 & 310)	
PHIL 205 EDUC 462	Logic	
LING 610	Language Acquisition Syntax II (prereq: LING 409)	
OR, any of the courses not chosen under C		

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

For more information, contact: Professor Barbara Landau Cognitive Science Program (302) 831-1088 email: blandau@udel edu

PRE-PROFESSIONAL SPEECH PATHOLOGY AND COGNITIVE AND LINGUISTIC SCIENCE

Students who wish to prepare for graduate or professional work in Speech Pathology and Communication Disorders may follow a course of study drawing on linguistics, speech science, psychology, neuroscience, and biology. This will include courses in acoustics, physiology, psycholinguistics, normal and abnormal development, and a variety of other scientific and clinical fields. Those wishing to study Cognitive and Linguistic Science may follow a course of study integrating language, computing, and thinking: in particular, introductory courses in linguistics, computer science, and psychology; a formal foundations course to provide the requisite mathematical underpinnings; and courses in some area of specialization, such as language development, computational modeling, or mathematical and logical foundations of cognitive science. Students interested in these areas may pursue a Bachelor of Arts in Liberal Studies degree. Templates of courses for each of these options are available from the Department. Advisors will work with students individually to design courses of study appropriate to the students' needs and the requirements of the fields.

CONFERENCE INTERPRETATION PROGRAM

Within the Department of Linguistics, the Conference Interpretation Program occasionally offers an intensive course in simultaneous and consecutive interpretation during the summer session. Coursework includes: basic theoretical constructs, pre-interpretation exercises, consecutive note-taking and note-reading, public speaking skills, simultaneous interpretation, self-monitoring techniques, short-term memory strategies, ethics, scenario writing and role playing. Candidates must have a good working knowledge of English and at least one other language in order to enroll. Prospective students are urged to contact Professor Nancy Schweda-Nicholson of the Department of Linguistics regarding the language combinations for future seminars.

MATHEMATICAL SCIENCES

The Department of Mathematical Sciences offers four undergraduate degree programs: the Bachelor of Science in Mathematical Sciences, the Bachelor of Science in Statistics, the Bachelor of Arts in Mathematical Sciences, and the Bachelor of Arts in Mathematics Education, which trains students for careers in secondary school mathematics education Minors in mathematics and in statistics are also available. The Department is currently not accepting applications for admission to the statistics major or statistics minor.

The Department of Mathematical Sciences provides courses for others who need to use mathematics and statistics in their careers, be it engineering, science, medicine, or management. Mathematical sciences majors must also delve deeply into the structure of their subject without neglecting its applications.

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

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

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

COURSES FOR OTHER MAJORS

The three-semester calculus sequence MATH 241-242-243 is the traditional basis for programs in the physical sciences and engineering. Students with a sound preparation in calculus are encouraged to enroll in MATH 242 to avoid repetition of known material. Students with advanced placement are automatically placed in MATH 242, and others should follow the advice given during freshman orientation.

The calculus sequence MATH 221-222 and finite mathematics course MATH 230 are designed for students in the biological, behavioral, management and social sciences. Trigonometry is not a prereq-

uisite 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 is designed for prospective elementary school teachers and is restricted to declared majors in the appropriate programs of the College of Human Resources, 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 114 serves to establish minimal skill levels for students not expecting to continue at the 200-level. Students seeking mathematical electives for self-enrichment may select MATH 280 if their skills are adequate for the 200-level.

Ordinarily, credit is not given for 100-level courses that follow successful completion of 200-level courses. Credit for corresponding courses from different tracks MATH 114 and 115; MATH 210 and 230; MATH 221 and 241; MATH 222 and 242; MATH 302 and MATH 341; and, MATH 349 and MATH 342 will be given only upon approval of the chair.

	MATHEMATICAL SCIENCES	CDEDITS
CURRICULU	• • • • • • • • • • • • • • • • • • • •	CREDITS
. •	78 for University and College requirements.	
	EQUIREMENTS	
dents lacking	C- or better is required for major courses and related work. St g preparation for MATH 242 should begin with MATH 241	U-
level or a STAT 450	Statistical Methods and Theory of mathematics and/or statistics at the 300 bove. MATH 379, MATH 380, MATH 381, MATH 555, and STAT 555 are not applicable.	4 4 3 3 3 3 4 9
eNGL 312 or suitabl	Written Communications in Businesse equivalent	3
One of the	following options (A, B, or C):	6-9
Option A	with previous experience with a programming language)	
CISC 181	Introduction to Computer Science	
and	•	
CISC 220	Data Structures	
CISC 105	with no previous experience with a programming language) General Computer Science	
and CISC 181 and	Introduction to Computer Science	
CISC 220	Data Structures	
Option C (for students CISC 105	with no previous experience with a programming language) General Computer Science	
and CISC 120	Object Oriented Programming in C++	

ELECTIVES

Studies Committee

and CISC 220

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

Any substitutions must be approved by the department Undergraduate

Data Structures

HONORS BACHELOR OF ARTS: MATHEMATICS

The recipient must complete:

1. All requirements for the Bachelor of Arts degree in Mathematics.

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

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

DEGREE:	BACHELOR	OF SCIENCE
MAJOR:	MATHEMAT	ICAL SCIENCES

INTERIOR COMPLETE AND ADDRESS OF THE PARTY O

CURRICULUM

CISC 181

and

CISC 220

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing (minimum grade C-) 3 Three credits in an approved course or courses stressing 3 multicultural, ethnic, and/or gender-related content (see p. 57)
COLLEGE REQUIREMENTS
Writing: (minimum grade C-) A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81)
Foreign Language: Completion of the intermediate-level course (107 or 112) in a given language Number of credits needed and initial placement will depend on number of years of high school study of foreign language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination French, Russian, or German is recommended.
Breadth Requirements (See page 83)
A total of twenty-one credits from Groups A, B and C is 21 required with a minimum of six credits in each group. The six credits from each group could be from the same area
Group A: Understanding and appreciation of the creative arts and humanities
Group B: The study of culture and institutions over time.
Group C: Empirically based study of human beings and their environment.
MAJOR REQUIREMENTS
A grade of C- or better is required for major courses and related work. Stu- dents lacking adequate preparation for MATH 242 should begin with 241
MATH 210 Discrete Mathematics I. 3 MATH 242 Analytic Geometry and Calculus B 4 MATH 243 Analytic Geometry and Calculus C 4 MATH 245 An Introduction to Proof 3 MATH 302 Ordinary Differential Equations 3 MATH 349 Elementary Linear Algebra 3 MATH 401 Introduction to Real Analysis 3 MATH 426 Introduction to Numerical Analysis and 3 Algorithmic Computation 3
MATH 451 Abstract Algebra I
ENGL 312 Written Communications in Business 3 Two-semester sequence of laboratory science 8 (Courses designed for non-majors in a discipline are not appropriate)
One of the following options (A, B, or C):
Option A (for students with previous experience with a programming language)

Introduction to Computer Science

Data Structures

(for students with no previous experience with a programming language)

CISC 105 General Computer Science
and

CISC 181 Introduction to Computer Science

CISC 181 Introduction to Computer Science and

CISC 220 Data Structures

Option C
(for students with no previous experience with a programming language)

CISC 105 General Computer Science and CISC 120 Object Oriented Programming in C++ and

CISC 220 Data Structures

Any substitutions must be approved by the department Undergraduate Studies Committee

ELECTIVES

CREDITS

Option B

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

CREDITS TO TOTAL A MINIMUM OF 128

HONORS BACHELOR OF SCIENCE: MATHEMATICS

The recipient must complete:

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

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

DEGREE: BACHELOR OF SCIENCE MAJOR: STATISTICS

The Department of Mathematical Sciences is currently not accepting applications for admission to the major in statistics.

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

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

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

examination. French, Russian or German is recommended

Breadth Requirements (See page 83)

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

Group A: Understanding and appreciation of the creative arts and humanities.

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

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

0 - 12

	QUIREMENTS		
A grade of C- or better is required for all major courses and related work. Students lacking adequate preparation for MATH 242 should begin with MATH 241.			
MATH 210 MATH 242 MATH 243 MATH 245 MATH 349 MATH 302 MATH 426	Discrete Mathematics I	4 4 3 3	
MATH 401	Introduction to Real Analysis		
STAT 205 STAT 370 STAT 371 STAT 418 STAT 420 STAT 611 STAT 615	Statistical Methods Introduction to Statistical Analysis I. Introduction to Statistical Analysis II. Sampling Methods. Data Analysis and Nonparametric Statistics Regression Analysis. Design and Analysis of Experiments	3 3 3 3 3 3	
One of the fol STAT 616 STAT 617 STAT 618	lowing:	}	
	Written Communications in Business		
One of the f	following options (A, B, or C): 6-9)	
Option A (for students w CISC 181 and	rith previous experience with a programming language) Introduction to Computer Science		
_	Data Structures		
	ith no previous experience with a programming language) General Computer Science		
	Introduction to Computer Science		
CISC 220	Data Structures		
	ith no previous experience with a programming language) General Computer Science		
CISC 120 and	Object Oriented Programming in C++ Data Structures		
This program r	ation:	;	
	S courses are completed, sufficient elective credits must be the minimum credit requirement for the degree		
CREDITS TO	TOTAL A MINIMUM OF 128	,	
	ACHELOR OF ARTS ATHEMATICS EDUCATION	-	
CURRICULUM	CREDIT V. DE OLUBEMENTS	S	
ENGL 110 (Three credits in	Y REQUIREMENTS Critical Reading and Writing (minimum grade C-) 3 n an approved course or courses stressing 3 , ethnic, and/or gender-related content (see p. 57).		
COLLEGE F Skill Require	REQUIREMENTS ements		
Writing: (min	imum grade C-)		
A second writing two papers with extended facult must be taken a courses are not to the course	ng course involving significant writing experience including that a combined minimum of 3,000 words to be submitted for try critique of both composition and content. This course after completion of 60 credit hours. Appropriate writing rmally designated in the semester's Registration Booklet.		

Foreign Language: Completion of the intermediate-level course (107 or 112) in a given language. Number of credits needed and initial placement will depend on number of years of high school study of foreign language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement by taking an exemption examination. French, Russian or German is recommended.			
	quirements (See page 83)	_	
Understandin Twelve credits	g and appreciation of the creative arts and humanities. s representing at least two areas		
The study of a at least two a	culture and institutions over time. Nine credits representing reas.	9	
Empirically be	ased study of human beings and their environment Nine enting at least two areas	9	
The study of r	natural phenomena through experiment and analysis A nirteen credits representing at least two areas including a ne course with an associated laboratory	3	
	EQUIREMENTS		
A grade of C Students lacki	or better is required for major courses and related work ng preparation for math 242 should begin with MATH 241.		
MATH 210 MATH 242	Discrete Mathematics I. Analytic Geometry and Calculus B.		
MATH 243	Analytic Geometry and Calculus C		
MATH 245	An Introduction to Proof	3	
MATH 349	Elementary Linear Algebra	3	
MATH 389 MATH 401	Graph Théory	3	
MATH 451	Abstract Algebra I		
MATH 518	Mathematical Models and Applications		
or	Transmandar reduced and representations are assessed as a second and representations are a	Ŭ	
another Mode			
MATH 540 STAT 300	Geometry		
One of the fol	llowing:	3	
CISC 105 CISC 106 CISC 181	General Computer Science General Computer Science for Engineering Introduction to Computer Science		
PHYS 207 ENGL 312	Introductory Physics I		
EDUC 201	Diversity in the Classroom		
EDUC 304	Educational Psychology – Social Aspects	3	
EDUC 305	Educational Psychology – Cognitive Aspects	3	
MATH 179 MATH 379	Problem Solving Strategies I Problem Solving Strategies	1	
MATH 380	Approaches to Teaching Mathematics	3	
MATH 381	Practicum in Secondary Mathematics	1	
EDUC 420	Reading in the Content Areas		
EDUC 400	Student Teaching	9	
	to student teach, Mathematics Education students must have a		
	in their mathematics major and an overall g.p.a. of 2.5.		
Remaining in the program is subject to periodic review of satisfactory progress and, to be admitted to EDDV 400 Student Teaching, students must			
have completed all the mathematics courses required in the secondary			
mathematics e	mathematics education program. Students should consult the teacher educa-		
tion program coordinator (see list on p. 176) to obtain the student teaching application and other information concerning student teaching policies.			
• •			
After required	S		

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 43 of this catalog).

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

REQUIREMENTS FOR A MINOR IN MATHEMATICS

A student seeking a minor in mathematics must obtain permission from the chairperson or his designee in the Department of Mathematical Sciences

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

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

One of STAT 300, STAT 370, STAT 450, or STAT 475 may be counted toward the 18 credits in MATH courses required for the mathematics minor, but these courses cannot count toward the 9 credits above MATH 302. Courses which are cross-listed with a Mathematical Sciences MATH course may also be counted toward the minor. Courses in mathematics education (e.g., MATH 379, 380, 381) may not be counted toward the minor.

REQUIREMENTS FOR A MINOR IN STATISTICS

The Department of Mathematical Sciences is not currently accepting applications for the minor in Statistics.

A student seeking a minor in statistics must obtain permission from the chairperson or his/her designee in the Department of Mathematical Sciences. Course requirements include STAT 300 or STAT 370 and a total of at least 12 credits in statistics above STAT 370. Credit toward the minor can be obtained for both STAT 300 and STAT 370, but credit toward the minor will not be given for both STAT 300 and STAT 371.

MEDICAL HUMANITIES

The undergraduate minor in medical humanities is an organized curriculum of study with an emphasis on the relationship between various humanistic inquiries and the practice of medicine.

Telephone: (302) 831-8195

REQUIREMENTS FOR A MINOR IN MEDICAL HUMANITIES

CSCC/PHIL 246 CSCC/ENGL 369 CSCC/HIST 382 CSCC 366	Philosophical Perspectives of Medicine 3 Literature and Medicine 3 History of Western Medicine 3 Independent Study in Medical Humanities 1
Two courses from the	following: ,
CSCC/WOMS 233	Women, Biology and Medicine
CSCC/PHIL 241	Ethical & Moral Dimensions of Health Care
CSCC/SOCI 242	Society and the Health Professions
CSCC/SOCI 243	Society, Politics, and Health Care
CSCC 271	Comparative Medical Systems
CSCC/SOCI 310	Sociology of Health Care
CSCC/SOCI 311	Hospitals
CSCC/ENGL 368	Literature and Science
CSCC/HIST 385	History of Biological Ideas
CSCC/PHIL 444	Medical Ethics

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

MEDIEVAL STUDIES

The College of Arts and Science offers an undergraduate minor in Medieval Studies. Students interested in the Middle Ages and Medieval Studies have the opportunity to draw on the resources of a number of departments and structure individual programs of breadth and variety. Students pursuing a minor in Medieval Studies must take a minimum of 18 credits from the following courses, selected from at least three departments.

or mare dependent	
ARTH 209	Early Medieval Art (200-1000 AD)
ARTH 210	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
FLLT 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 302	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.

Telephone: (302) 831-3657

MILITARY SCIENCE-ARMY ROTC

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

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.

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, national security policy, and adventure training opportunities (rappelling, skiing, 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 many of the Basic Course students decide not to continue in the Advanced program, they all unequivocally state that the ROTC Basic Course instruction provided them with excellent life skills, abilities, and confidence.

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

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

Army ROTC Benefits

Four, three, and two-year scholarships are awarded to deserving ROTC students each year. Scholarships provide for total tuition costs (in- or out-of-state rates), up to \$16,000 per year, plus a \$450 book allowance and a \$1500 stipend annually. All these benefits may be combined with other scholarship benefits. The Military Sciences Department has additional scholarship incentives worth over \$60,000 to award to sophomore through senior cadets for academic excellence. Typically, 80% of all UD ROTC students are on some type of scholarship incentive

Many of the graduating cadets elect to go Active Duty to put their ROTC leadership training into practice. The annual salary for a new Second Lieutenant approaches \$30,000

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

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

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

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

MUSIC

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. All programs in music provide effective preparation for graduate study.

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

Entering majors are expected to demonstrate a high level of musical achievement and aptitude. Placement auditions and musicality tests for those students who wish to enter in the fall semester

should be completed by June 1 of the preceding spring and must be completed before acceptance is granted. Acceptance to the University does not indicate acceptance as a music major. Students who transfer from accredited colleges are placed in appropriate levels of music theory, literature, and applied music according to the results of tests given at the time of transfer.

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

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

For the general University undergraduate, the department offers courses in the fundamentals of music, music literature, and class study of voice, organ and piano. All courses in the department are available to any University student who meets course and department prerequisites. Music courses may be taken as partial fulfillment of breadth requirements in the College of Arts and Science. Private study is also available to freshmen in the University Honors Program and to other non-majors, on a space-available basis, through the Music Merit Program. Auditions for these programs are held during the first week of the academic year by arrangement with the department office. A variety of performing organizations are available to all University students: marching band, wind and jazz ensembles, choral groups, the early music ensemble, gamelan, opera workshop, steel band, and various chamber ensembles

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

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

DEGREE: BACHELOR OF ARTS MAJOR: MUSIC

CREDITS CURRICUIUM

See page 78 for University and College requirements. MAJOR REQUIREMENTS

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

Applied Music MUSC 100 Recital Attendance (four semesters required)......

MUSC 162 MUSC 175	Private Study 2 Private Study 2 Class Piano: Elementary I 1 Private Study 2
MUSC 262	Private Study 2
Theory MUSC 185/1 MUSC 195/1 MUSC 285/2 MUSC 295/2	96 Harmony I and II 688 Advanced Ear Training and Sight Singing I and II 4
Ensemble	

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

ELECTIVES

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

DEGREE: BACHELOR OF MUSIC	Orchestra, MUSC 118 Percussion Ensemble, and MUSC 321 Ensemble. (All Ensembles may be repeated.)
MAJOR: APPLIED MUSIC-INSTRUMENTAL	Guitarists must complete the following:
CONCENTRATION: PRINCIPAL INSTRUMENTS	MUSC 321 Ensemble: Guitar
The concentration designates the student's principal instrument. A list of instrumental options can be found in the chart on page vi at the	Two semesters of any departmental ensemble
front of this catalog, or can be obtained from the Department or the	Literature
College of Arts and Science Advisement Center	MUSC 211 Introduction to Music History 3 MUSC 311 Music History: 400-1600 3
CURRICULUM CREDITS	MUSC 312 Music History: 1600-1827 3
UNIVERSITY REQUIREMENTS	MUSC 313 Music History: 1825 to the Present
ENGL 110 Critical Reading and Writing (minimum grade C-)	Music Elective
Three credits in an approved course or courses stressing 3 multicultural, ethnic, and/or gender-related content (see p. 57).	Music Electives
· · · · · · · · · · · · · · · · · · ·	Excludes private study on primary instrument
COLLEGE REQUIREMENTS	,
Writing: (minimum grade C-) A second writing course involving significant writing experience including	CREDITS TO TOTAL A MINIMUM OF130
two papers with a combined minimum of 3,000 words to be submitted for	
extended faculty critique of both composition and content. This course	DEGREE: BACHELOR OF MUSIC
must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet	MAJOR: APPLIED MUSIC-PIANO
(See list of courses approved for second writing requirement, page 81.)	CURRICULUM CREDITS
Mathematics: One of the following	UNIVERSITY REQUIREMENTS
MATH 113 Contemporary Mathematics	ENGL 110 Critical Reading and Writing (minimum grade C-)
(designed for students who do not intend to continue the study of mathematics)	Three credits in an approved course or courses stressing.
MATH 114 College Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	multicultural, ethnic, and/or gender-related content (see p. 57).
MATH 115 Pre-Calculus	COLLEGE REQUIREMENTS
(designed for students who intend to continue the study of mathematics)	Writing: (minimum grade C-)
MATH 221 Calculus I MATH 241 Analytic Geometry and Calculus A	A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for
Successful performance on the college proficiency exam (0 credits awarded)	extended faculty critique of both composition and content. This course
English literature course (200-level – Group A or B)	must be taken after completion of 60 credit hours. Appropriate writing
HIST 101 Western Civilization to 1648	courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)
HIST 102 Western Civilization: 1648 to the Present 3	Mathematics: One of the following
Foreign Language	MATH 113 Contemporary Mathematics
Two semesters of the same modern foreign language	(designed for students who do not intend to continue the study of mathematics)
Breadth Requirements (See page 83) Group A	MATH 114 College Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)
Understanding and appreciation of the creative arts and humanities	MATH 115 Pre-Calculus
This requirement is satisfied by MUSC 195 and 196.)	(designed for students who intend to continue the study of mathematics)
Group B 15	MATH 221 Calculus I MATH 241 Analytic Geometry and Calculus A
The study of culture and institutions over time. Fifteen credits representing	Successful performance on the college proficiency exam (0 credits awarded)
at least two areas. (This requirement is satisfied by MUSC 311, 312, 313, HIST 101, and 102)	English literature course (200-level – Group A or B)
Group C 9	HIST 101 Western Civilization to 1648
Empirically based study of human beings and their environment. Nine	HIST 102 Western Civilization: 1648 to the Present
credits representing at least two areas	Foreign Language
Group D 6	Two semesters of the same modern foreign language 8
The study of natural phenomena through experiment and analysis.	Breadth Requirements (See page 83)
MAJOR REQUIREMENTS	Group A
Applied Music	Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.)
MUSC 100 Recital Attendance (six semesters required) 0 MUSC 161 Private Study 4	Group B
MUSC 161 Private Study 4 MUSC 162 Private Study 4	The study of culture and institutions over time Fifteen credits representing
MUSC 261 Private Study 4	at least two areas (This requirement is satisfied by MUSC 311, 312,
MUSC 262 Private Study 4 MUSC 361 Private Study 4	313, HIST 101, and 102.)
MUSC 362 Private Study 4	Group C 9
MUSC 461 Private Study 4	Empirically based study of human beings and their environment. Nine credits representing at least two areas.
AUSC 462 Private Study	Group D
AUSC 301 Junior Recital 0	The study of natural phenomena through experiment and analysis
AUSC 401 Senior Recital 0	MAJOR REQUIREMENTS
Theory	
AUSC 185/186 Ear Training and Sight Singing I and II	Applied Music MUSC 100 Recital Attendance (six semesters required)
AUSC 195/196 Harmony I and II 6 AUSC 285/286 Advanced Ear Training and Sight Singing I and II 4	MUSC 100 Recirci Affendance (six semesters required) 0 MUSC 161 Private Study 4
AUSC 295/296 Advanced Harmony I and II	MUSC 162 Private Study 4
AUSC Theory courses	MUSC 261 Private Study 4 MUSC 262 Private Study 4
insemble	MUSC 361 Private Study 4
welve credits selected from the following:	MUSC 362 Private Study 4
Vind Ensemble, MUSC 116 Jazz Ensemble, MUSC 117 University	MUSC 461 Private Study 4 MUSC 462 Private Study 4

MUSC 301 Junior Recital	MAJOR REQUIREMENTS
MUSC 401 Senior Recital 0	Applied Music
Theory	MUSC 100 Recital Attendance (six semesters required)
MUSC 185/186 Ear Training and Sight Singing I and II	MUSC 161 Private Study 4
MUSC 285/286 Advanced Ear Training and Sight Singing I and II	MUSC 162 Private Study 4
MUSC 195/196 Harmony I and II	MUSC 261 Private Study 4 MUSC 262 Private Study 4
MUSC 295/296 Advanced Harmony I and II	MUSC 361 Private Study 4
MUSC 393/394 Keyboard Harmony 4	MUSC 362 Private Study 4
MUSC Theory courses 4-6	MUSC 461 Private Study 4
Ensemble Ensemble	MUSC 462 Private Study.
Two semesters of any departmental ensemble	MUSC 175 Class Piano: Elementary I
MUSC 241 Accompanying Chamber Music: Piano	MUSC 176 Class Piano: Elementary II.
MUSC 242 Accompanying Chamber Music: Piano	MUSC 275 Class Piano: Intermediate I
MUSC 341 Accompanying Chamber Music: Piano	MUSC 276 Class Piano: Intermediate II
MUSC 342 Accompanying Chamber Music: Piano 1	MUSC 301 Junior Recital 0
MUSC 441 Accompanying Chamber Music: Piano	MUSC 401 Senior Recital 0
MUSC 442 Accompanying Chamber Music: Piano	Theory
Literature	MUSC 185/186 Ear Training and Sight Singing I and II
	MUSC 285/286 Advanced Ear Training and Sight Singing I and II
MUSC 211 Introduction to Music History 3 MUSC 311 Music History: 400-1600	MUSC 195/196 Harmony I and II 6
MUSC 312 Music History: 1600-1827	MUSC 295/296 Advanced Harmony I and II
MUSC 313 Music History: 1825 to the Present 3	
MUSC 363 Keyboard Literature I	Ensemble: One of the following (any 8 semesters)
MUSC 364 Keyboard Literature II 3	MUSC 108 University Singers
Music Literature course.	Or
	MUSC 109 Choral Union
Music Electives Excludes private study on primary instrument	or MUSC 110 Choral
May include two credits of ensemble	Literature
,	MUSC 211 Introduction to Music History
CREDITS TO TOTAL A MINIMUM OF 133	MUSC 311 Music History: 400-1600
	MUSC 312 Music History: 1600-1827
	MUSC 313 Music History: 1825 to the Present 3
DEGREE: BACHELOR OF MUSIC	Related Music Studies
MAJOR: APPLIED MUSIC-VOICE	
	MUSC 171 Diction: English and Italian
CURRICULUM CREDITS	MUSC 271 Diction: German 1
UNIVERSITY REQUIREMENTS	MUSC 272 Diction: French 1 MUSC 489 Opera Workshop 1
ENGL 110 Critical Reading and Writing (minimum grade C-)	
Three credits in an approved course or courses stressing	Music Electives
multicultural, ethnic, and/or gender-related content (see p. 57).	Nine credits from the following: (including four credits
moniconordi, entino, dilazior genderreidied comeni (see p. 57).	from MUSC 327, 427 and/or 428)
COLLEGE REQUIREMENTS	MUSC 103 Introduction to Opera
Writing: (minimum grade C-)	MUSC 104 Introduction to Opera II
A second writing course involving significant writing experience including	MUSC 327 German Lieder
two papers with a combined minimum of 3,000 words to be submitted for	MUSC 335 Basic Conducting
extended faculty critique of both composition and content. This course	MUSC 395 Form Analysis
must be taken after completion of 60 credit hours. Appropriate writing	MUSC 397 Contemporary Harmony
courses are normally designated in the semester's Registration Booklet.	MUSC 427 French Art Song
(See list of courses approved for second writing requirement, page 81.)	MUSC 428 Twentieth-Century Art Song
	MUSC 480 Vocal Pedagogy
Mathematics: One of the following 0-4	ELECTIVES
MATH 113 Contemporary Mathematics	After required courses are completed, sufficient elective credits must be
(designed for students who do not intend to continue the study of mathematics)	taken to meet the minimum credit requirement for the degree.
MATH 114 College Mathematics and Statistics	taken to meet the minimum cream requirement for the degree.
designed for students who do not intend to continue the study of mathematics)	CREDITS TO TOTAL A MINIMUM OF 134
MATH 115 Pre-Calculus	
designed for students who intend to continue the study of mathematics)	
MATH 221 Calculus I	PROPER DAGUELON OF MUCIO
MATH 241 Analytic Geometry and Calculus A	DEGREE: BACHELOR OF MUSIC
Successful performance on the college proficiency exam (O credits awarded)	MAJOR: MUSIC EDUCATION-INSTRUMENTAL
HIST 102 Western Civilization: 1648 to the Present	CONCENTRATION: PRINCIPAL INSTRUMENT
anguages courses (French, German and Italian)	The concentration designates the student's principal instrument. A list of
THEA 226 Acting I	instrumental options can be found in the chart on page vi at the front of
Breadth Requirements (See page 83)	this catalog, or can be obtained from the Department or the College of
Group A 6	Arts and Science Advisement Center.
Understanding and appreciation of the creative arts and humanities	CURRICULUM CREDITS
This requirement is satisfied by MUSC 195 and 196.)	
	UNIVERSITY REQUIREMENTS
Group B	ENGL 110 Critical Reading and Writing (minimum grade C-)
The study of culture and institutions over time. Twelve credits represent-	Three credits in an approved course or courses stressing 3
ng at least two areas (This requirement is satisfied by MUSC 311,	multicultural, ethnic, and/or gender-related content (see p 57)
312, 313 and HIST 102.)	COLLEGE PEOUPEMENTS
Group C 6	COLLEGE REQUIREMENTS
Empirically based study of human beings and their environment. Six	Skill Requirements
rmpirically based study of nutrial beings and metrenvironment. Six credits representing at least two areas.	Writing: (minimum grade C-) 3
	A second writing course involving significant writing experience including
Group D	two papers with a combined minimum of 3,000 words to be submitted for
he study of natural phenomena through experiment and analysis.	extended faculty critique of both composition and content. This course

must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)	Professional Studies EDUC 201 Diversity in the Classroom
Mathematics: One of the following 0-4 MATH 113 Contemporary Mathematics	EDUC 305 Educational Psychology – Cognitive Aspects
(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 1	enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program advisor (see list on p. 176) should be consulted for the exact G P A requirements and other policies concerning qualifications for student teaching.
MATH 241 Analytic Geometry and Calculus A Successful performance on the college proficiency exam (0 credits awarded)	CREDITS TO TOTAL A MINIMUM OF 129
Breadth Requirements (See page 83)	DECORE. DACHELOD OF MUCIC
Art or Art History course, to be selected from Group A or B	DEGREE: BACHELOR OF MUSIC MAJOR: MUSIC EDUCATION—GENERAL/CHORAL CONCENTRATION: PIANO
Nine credits representing at least two departments. (This requirement is partially satisfied by MUSC 195 and 196.)	CURRICULUM CREDITS UNIVERSITY REQUIREMENTS
Group B	ENGL 110 Critical Reading and Writing (minimum grade C-) 3 Three credits in an approved course or courses stressing 3 multicultural, ethnic, and/or gender-related content (see p. 57).
Group C 9	COLLEGE REQUIREMENTS
Empirically based study of human beings and their environment. Nine credits representing at least two areas.	Writing: (minimum grade C-)
Group D	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.
Applied Music	(See list of courses approved for second writing requirement, page 81.)
MUSC 100 Recital Attendance (six semesters required) 0 MUSC 161 Private Study 2 MUSC 162 Private Study 2	Mathematics: One of the following
MUSC 261 Private Study 2 MUSC 262 Private Study 2 MUSC 361 Private Study 2	MATH 114 College Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics) MATH 115 Pre-Calculus
MUSC 362 Private Study 2 MUSC 461 Private Study 2 MUSC 175 Class Piano: Elementary I 1	(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)
MUSC 176 Class Piano: Elementary II 1 MUSC 174 Class Voice: Beginning 1	Breadth Requirements (See page 83)
MUSC 301 Junior Recital 0	Art or Art History course, to be selected from Group A or B
WUSC 285/286 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	Group A
MUSC 295/296 Advanced Harmony Land II 6 MUSC 331 Orchestration 2 Ensemble	Group B
MUSC 113 Marching Band	Group C
MUSC 211 Introduction to Music History 3 MUSC 311 Music History: 400-1600 3 MUSC 312 Music History: 1600-1827 3	Group D
MUSC 313 Music History: 1825 to the Present	MAJOR REQUIREMENTS
Secondary Instruments VUSC 214 Stringed Instruments Class	Applied Music
MUSC 215 High Brass Instruments Class	MUSC 100 Recital Attendance (six semesters required) 0 MUSC 161 Private Study (piano) 2
MUSC 216 Low Brass Instruments Class 1 MUSC 217/218 Woodwind Instruments Class I and II 2 MUSC 219 Percussion Instruments 1	MUSC 162 Private Studý (piano) 2 MUSC 261 Private Study (piano) 2
Music Methods	MUSC 262 Private Study (piano) 2 MUSC 361 Private Study (piano) 2 MUSC 362 Private Study (piano) 2
MUSC 287 Music Technology	MUSC 461 Private Study (piano) 2
MUED 279 Practicum in Music Education 3	MUSC 161 Private Study (voice) 1
MUED 337 Instrumental Conducting 2 MUED 379 Music in the Elementary and Junior High (or Middle) School 3	MUSC 162 Private Study (voice) 1 MUSC 261 Private Study (voice) 1
AUED 479 Secondary Music Materials and Approaches 3	MUSC 262 Private Study (voice) 1 MUSC 480 Vocal Pedagogy 3
Music Electives	MUSC 480 Vocal Pedagogy 3 MUSC 171 Diction: English and Italian 1
ix music electives excluding ensemble and private study on	MUSC 271 Diction: German 1 MUSC 272 Diction: French 1 MUSC 301 Junior Recital 0

MUSC 185/ MUSC 285/		
MU3C 2837	186 Ear Training and Sight Singing I and II	4
MUSC 195/		4
MUSC 295/	296 Advanced Harmony I and II	
MUSC 397	Contemporary Harmony	3
MUSC 108	One of the following (any 7 semesters) University Singers	7
or MUSC 109 or	Choral Union	
MUSC 110	Choral	
Literature MUSC 211	Introduction to Music History	
MUSC 311	Music History: 400-1600	3
MUSC 312	Music History: 1600-1827	3
MUSC 313 MUSC 328	Music History: 1825 to the Present Choral Literature	3
		4
MUSC 214	Instruments Stringed Instruments Class	1
MUSC 214	High Brass Instruments Class	
or	nigh brass instruments class	
MUSC 217	Woodwind Instruments Class I	
Music Meth MUSC 287	nods Music Technology	,
MUSC 335	Basic Conducting	
MUED 279	Practicum in Music Education	3
MUED 336	Choral Conducting	2
MUED 379 MUED 479	Music in the Elementary and Junior High (or Middle) School Secondary Music Materials and Approaches	3
Music Elect		_
	of music electives excluding ensemble and dy on primary instrument (MUSC 407 recommended)	3
Profession		_
EDUC 201 EDUC 304	Diversity in the Classroom	3
EDUC 304	Educational Psychology – Social Aspects Educational Psychology – Cognitive Aspects	3
EDUC 400	Student Teaching	. 9
To be eligible	to student teach, Music Education students must have a	
	5 in their music major and an overall g.p a. of 2.5. Students	
should consul	t the teacher education program coordinator (see list on p.	
should consul 176) to obtai	It the teacher education program coordinator (see list on p. n the student teaching application and other information con-	
should consul 176) to obtai cerning stude	It the teacher education program coordinator (see list on p. n the student teaching application and other information con- nt teaching policies.	100
should consul 176) to obtai cerning stude	It the teacher education program coordinator (see list on p. n the student teaching application and other information con-	133
should consul 176) to obtai cerning stude	It the teacher education program coordinator (see list on p. n the student teaching application and other information con- nt teaching policies.	133
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should consul 176) to obtain cerning stude CREDITS To DEGREE: B MAJOR: A CONCENTICULUM	It the teacher education program coordinator (see list on p. n the student teaching application and other information connt teaching policies. O TOTAL A MINIMUM OF	
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should consul 176) to obtain cerning stude CREDITS To DEGREE: B MAJOR: M CONCENT CURRICULUM UNIVERSITENGL 110 Three credits	It the teacher education program coordinator (see list on p. n the student teaching application and other information connt teaching policies. O TOTAL A MINIMUM OF	EDIT
should consul 176) to obtai cerning stude CREDITS TO DEGREE: B MAJOR: A CONCENT CURRICULUM UNIVERSITENGL 110 Three credits multiculture COLLEGE	It the teacher education program coordinator (see list on p. n the student teaching application and other information connt teaching policies. O TOTAL A MINIMUM OF	EDIT 3
should consul 176) to obtai cerning stude CREDITS To DEGREE: B MAJOR: N CONCENT CURRICULUM UNIVERSITENGL 110 Three credits multiculture COLLEGE Writing: (mirror)	It the teacher education program coordinator (see list on p. n the student teaching application and other information connt teaching policies. O TOTAL A MINIMUM OF	EDIT 3
should consul 176) to obtain cerning stude CREDITS To DEGREE: B MAJOR: M CONCENT CURRICULUM UNIVERSITY ENGL 110 Three credits multiculture COLLEGE Writing: (min. A second writing students)	It the teacher education program coordinator (see list on p. n the student teaching application and other information connt teaching policies. O TOTAL A MINIMUM OF	EDIT 3
should consul 176) to obtai cerning stude CREDITS To DEGREE: B MAJOR: M CONCENT CURRICULUM UNIVERSITENGL 110 Three credits multiculture COLLEGE Writing: (min A second writh two papers w	It the teacher education program coordinator (see list on p. n the student teaching application and other information connt teaching policies. O TOTAL A MINIMUM OF	EDIT 3
should consul 176) to obtai cerning stude CREDITS To DEGREE: B MAJOR: N CONCENT CURICULUM UNIVERSITENGL 110 Three credits multiculture COLLEGE Writing: (mit A second writ two papers wextended facumust be taken	It the teacher education program coordinator (see list on p. n the student teaching application and other information connt teaching policies. O TOTAL A MINIMUM OF	EDIT 3
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	quirements (See page 83)	
	story course, to be selected from Group A or B	
Understandin Nine credits	ng and appreciation of the creative arts and humanities. representing at least two areas. (This requirement is partially MUSC 195 and 196.)	. 9
Group B	culture and institutions over time. (MUSC 311, 312, and	. 9
	ward completion of this requirement)	_
Empirically b	ased study of human beings and their environment Nine senting at least two areas	. 9
		4
science cours	natural phenomena through experiment and analysis. One se with an associated laboratory.	
	EQUIREMENTS	
Applied Mu		_
MUSC 100 MUSC 161	Recital Attendance (six semesters required) Private Study	
MUSC 162	Private Study	
MUSC 261	Private Study	
MUSC 262	Private Study	
MUSC 361	Private Study	. 2
MUSC 362	Private Study	. 2
MUSC 461	Private Study	. 2
MUSC 175	Class Piano: Elementary I	. [
MUSC 176 MUSC 275	Class Piano: Elementary II. Class Piano: Intermediate I.	. ! 1
MUSC 276	Class Piano: Intermediate II	
MUSC 171	Diction: English and Italian	1
MUSC 271	Diction: German	
MUSC 272	Diction: French	. 1
MUSC 480	Vocal Pedagogy	
MUSC 301	Junior Recital	. 0
MUSC 185/2 MUSC 285/2 MUSC 195/2 MUSC 295/2 MUSC 397	286 Advanced Ear Training and Sight Singing I and II	6 6 3
Ensemble: 0 MUSC 108 or	One of the following (any 7 semesters) University Singers	. 7
MUSC 109 or	Choral Union	
MUSC 110 Literature	Choral	
MUSC 211	Introduction to Music History	. 3
MUSC 311	Music History: 400-1600	
MUSC 312	Music History: 1600-1827	. 3
MUSC 313	Music History: 1825 to the Present	
MUSC 328	Choral Literature	. 2
	Instruments	
MUSC 214	Stringed Instruments Class	.]
MUSC 215	High Brass Instruments Class	. 1
or MUSC 217	Woodwind Instruments Class I	. 1
Music Meth		_
MUSC 287	Music Technology	. 3
MUSC 335	Basic Conducting	
MUED 279 MUED 336	Practicum in Music Education Choral Conducting	
MUED 379	Music in the Elementary and Junior High (or Middle) School	3
MUED 479	Secondary Music Materials and Approaches	3
Music Electi		
Three credits	of music electives excluding ensemble and	3
Professiona		
EDUC 201	Diversity in the Classroom	3
EDUC 304	Educational Psychology - Social Aspects	3
EDUC 305	Educational Psychology – Cognitive Aspects	3
EDUC 400	Student Teaching	
The Music Edu enrollment in I	ucation program requires a certain minimum G.P.A. for EDDV 400, Student Teaching, a course required for the	

degree The teacher education program advisor (see list on p. 176) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.
CREDITS TO TOTAL A MINIMUM OF 133
DEGREE: BACHELOR OF MUSIC MAJOR: THEORY/COMPOSITION CONCENTRATIONS: THEORY/COMPOSITION
CURRICULUM CREDITS
UNIVERSITY REQUIREMENTS ENGL 110 Critical Reading and Writing (minimum grade C-) 3 Three credits in an approved course or courses stressing 3 multicultural, ethnic, and/or gender-related content (see p. 57)
COLLEGE REQUIREMENTS
Writing: (minimum grade C-) A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 81.)
Mathematics: One of the following
Modern Languages and History
Twelve credits in one of the following: French, German 12 or Italian HIST 101 HIST 102 Western Civilization to 1648 MIST 102 Western Civilization 1648 to the Present 3
Breadth Requirements (See page 83) Two 200-level or higher English literature courses selected from
Group A
Group B
Group C
Group D
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 331 Orchestration 2 MUSC 392 Contrapuntal Writing 2

MUSC 393/3 MUSC 395 MUSC 397	394 Keyboard Harmony I and II 4 Form Analysis 3 Contemporary Harmony 3	
One of the	following concentrations (Theory or Composition):	
Theory Con	centration	
MUSC 421		
	Pedagogy of Theory Advanced Composition (two semesters)	
or	Advanced Composition (two semesters)	
	Advanced Composition (one semester) and	
MUSC Theory	y, literature or applied music elective	
Compositio	n Concentration	
	Pedagogy of Theory	
MUSC 420	Advanced Composition (three semesters required)	
Literature		
MUSC 211	Introduction to Music History	
MUSC 311 MUSC 312	Music History: 400-1600	
MUSC 312	Music History: 1600-1827	
MUSC 407	Twentieth-Century Music 3	
Ensemble A variety of er	nsembles are recommended, including Chamber ensembles4	
CREDITS TO TOTAL A MINIMUM OF 126		

REQUIREMENTS FOR A MINOR IN MUSIC

A minimum grade of C is required in each course for music minors.

MUSIC MINOR: APPLIED MUSIC-PRINCIPAL INSTRUMENT

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

The Applied Music minor is for nonmusic majors with some musical background who wish to continue their musical training on a more formal basis or music majors who wish to receive formal training on an additional instrument. Places in the minor program are dependent upon the total load of the applied faculty member involved. Admission into the Applied Music minor is determined by audition and musicality testing. The requirements are:

	KEDIIS
MUSC 175 Class Piano	1
Not required of persons minoring in Applied Music-Piano.	0
MUSC 161, 162, 261, 262 Applied Music	8
Lessons will be 1/2 hour per week and will include a repertory class.	4
Ensemble	- 4
Ensemble and private study must be taken concurrently. (See Ensem-	
ble 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 Theory/Composition	5
Music Literature/History	3
(MUSC 101 and 102 do not fulfill this requirement	
Any other music history course will do)	
•	
Total Credits	
(For Piano minor	s 20)

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:

		KEDIIS
MUSC 181 and 281 Jazz Styles/Tech		4
MUSC 116 (four semesters), MUSC 321	Ensemble	5

CREDITS

MUSC 197	nd 294 Jazz Improvisation Jazz Harmony History of Jazz	3	
Total Credits			

MUSIC MINOR: MUSIC MANAGEMENT STUDIES

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

In declaring the minor, students who are not also music majors will select a music emphasis from the following areas: Music History/Literature, Music Theory/Composition, Jazz, or Applied Music and will complete between 8 and 11 credits of music courses within that area of emphasis.

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

Total Cred	lits 18-23	
MUSC 464	Internship	
MUSC 309	Patterns of Patronage	
MUSC 389	Elements of Music Management.	
MUSC 388	Principles of Music Industry Practice	
	CREDIT	

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:

		CKEDII
MUSC 185	Ear Training and Sight Singing I	2
MUSC 195	Harmony I	3
MUSC 211	Introduction to Music History	
MUSC 311	Music History: 400 - 1600	
ог		
MUSC 312	Music History: 1600 - 1827	
or		
	Music History: 1825 to Present	
	ble	
fulfill this re	y/Literature Elective (MUSC 101 and 102 do not	
MUSC Theory	Elective (MUSC 186, 196, 197, 287, 385)	2-3

Total Credits 18-19

PHILOSOPHY

Philosophy provides training in basic methods of reasoning, both clear thinking procedures for everyday decision making and more formal techniques of logical analysis. It examines fundamental issues and ideas about our knowledge and values. It furnishes a critical perspective on the methods and results of other disciplines.

A major, a minor, or a concentration in philosophy is a useful background for many careers including the teaching of philosophy. Majors often go on to graduate work in other arts and science disciplines, as well as to further schooling in law, theology, education, data processing, or business. In general, philosophy offers all students opportunities to develop their critical and analytical skills.

Telephone: (302) 831-2359

http://www.udel.edu/Philosophy/default.html

The American Philosophical Association's national headquarters is on the Delaware campus (http://www.udel.edu/apa/).

DEGREE: BACHELOR OF ARTS MAJOR: PHILOSOPHY

See page 78 for University and College requirements.

MAJOR REQUIREMENTS

PHIL 105	Critical Thinking	3
or PHIL 205	Logic	
PHIL 201 or	Social and Political Philosophy	3
PHIL 203	Ethics	
PHIL 301 PHIL 303	Ancient Philosophy Modern Philosophy	3 3
PHIL 305	Twentieth Century Philosophy	3
or PHIL 320	Theory of Knowledge	
PHIL 465	Senior Seminar	3
Six additional Six additional	Philosophy credits at the 300-level or above Philosophy elective credits	6 6
advisor, from Women's, Jew hours may inc	multicultural courses, selected in consultation with the	6

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR A MINOR IN PHILOSOPHY

A minor in philosophy requires a minimum of 15 credits, consisting of PHIL 105 or 205; PHIL 301 or PHIL 303; an additional 300-level PHIL course; and two PHIL electives.

PHYSICAL THERAPY

The Department of Physical Therapy offers a graduate program that prepares students for professional licensure, and counsels undergraduates who are interested in pursuing a pre-physical therapy course of study. These students are admitted to the University as "physical therapy interest" and follow a program of study leading to a baccalaureate degree with a major in one of the traditional disciplines (e.g., biological sciences, psychology, or other choices). A major in a traditional discipline must be declared by the end of the fifth semester. Students receive academic advice by staff members in the advisement center or in their major department. They receive career counseling from faculty in the Physical Therapy Department. Upon graduation from their undergraduate program, students will have the necessary course work that will allow them to compete for admission to graduate programs throughout the United States, including the University of Delaware.

Telephone: (302) 831-8910 http://www.udel.edu/PT/index.html

PHYSICS AND ASTRONOMY

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

0-12

The department maintains a balanced program of instruction for students who wish to acquire some understanding of physics as part of their cultural background, as well as for those who require training in physics in preparation for engineering or scientific careers. Intermediate and advanced courses are offered for students who plan teaching or research careers in physics or related disciplines.

The research activity of the staff of the Physics and Astronomy Department and of the staff of the Bartol Research Institute, which is affiliated with the University of Delaware and housed in Sharp Laboratory, is diverse and substantial. Undergraduate participation in research is encouraged.

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

BACHELOR OF SCIENCE DEGREE IN GEOPHYSICS

The Geology Department, jointly with the Physics Department, offers a B.S. degree in geophysics. Geophysics involves the use of seismic, gravity, magnetic, and electrical methods to study the structure and tectonic evolution of the earth. Geophysicists may perform such diverse tasks as using ground penetrating radar to detect the presence of buried hazardous wastes to modeling seismic waves to determine the nature of the earth's core-mantle boundary. The geophysics program is designed to produce students well-grounded in both geology and physics, but specifically trained in geophysical principles and techniques.

DEGREE: BACHELOR OF ARTS MAJOR: PHYSICS

CREDITS See page 78 for University and College requirements. Note: MATH 241 Analytical Geometry and Calculus A satisfies the

Mathematics Skills College requirement and is strongly recommended as the first math course for physics majors, unless the placement exam suggests differently.

MAJOR REQUIREMENTS

Ordinarily, no more than four credits from among PHYS 201, and 207 may be counted toward graduation requirements; similarly no more than four from among PHYS 202, 208. Students interested in majoring in Physics who have taken an introductory sequence other than PHYS 207-8 should consult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation may be given with permission of the Physics chair.

PHYS 207/208 Fundamentals of Physics I and II (strongly recommended) 8 PHYS 201/202 Introductory Physics I and II the 300-level or higher.

One of the following..... MATH 241/242/243 Analytic Geometry and Calculus A, B and C (recommended)

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

COLLEGE REQUIREMENTS

Skill Requirements

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

Foreign Language: Completion of the intermediate-level course (107 or 112) in a given language. Number of credits needed and initial placement will depend on

number of years of high school study of foreign language Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination

Breadth Requirements (See page 83)

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

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

Group B: The study of culture and institutions over time

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

MAJOR REQUIREMENTS

Within the Department

Ordinarily, no more than four credits from among PHYS 201, and 207 may be counted toward graduation requirements; similarly no more than four from among PHYS 202, 208. Students interested in majoring in Physics who have taken an introductory sequence other than PHYS 207/208 should consult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation may be given with permission of the Physics chair

,
PHYS 207/208/209 Fundamentals of Physics I, II and III 11 PHYS 306 Computational Methods of Physics 3
PHYS 313 Physical Optics
PHYS 419 Classical Mechanics I 3
PHYS 422 Quantum Mechanics
PHYS 603/604 Electricity and Magneticism I and II 6
PHYS 616 Kinetic Theory and Thermodynamics
PHYS 620 Classical Mechanics II
PHYS 621 Fundamentals of Modern Physics
PHYS 645 Electronics for Scientists 3
PHYS 647 Modern Physics Laboratory 3
MATH 241/242/243 Analytic Geometry and Calculus A, B and C
MATH 302 Ordinary Differential Equations 3
MATH 302 Ordinary Differential Equations 3 MATH 349 Elementary Linear Algebra 3
One of the following two courses:
MATH 503 Advanced Calculus for Applications
WATH 508 Introduction to Complex Variables and Applications
CHEM 103/104 General Chemistry
ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 130

DEGREE: BACHELOR OF SCIENCE MAJOR: PHYSICS

CONCENTRATION: ASTRONOMY/ASTROPHYSICS

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

COLLEGE REQUIREMENTS

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

3

Foreign Language: 0-12	Breadth Requirements (See page 83)
Completion of the intermediate-level course (107 or 112) in a given lan- guage. Number of credits needed and initial placement will depend on	A total of twenty-one credits from Groups A, B and C is 21 required with a minimum of six credits in each group. The six credits
number of years of high school study of foreign language. Students with	from each group could be from the same area
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	Group A: Understanding and appreciation of the creative arts and humanities.
examination.	Group B: The study of culture and institutions over time.
Breadth Requirements (See page 83)	Group C. Empirically based study of human beings and their environment.
A total of twenty-one credits from Groups A, B and C is	MAJOR REQUIREMENTS
from each group could be from the same area	Ordinarily, no more than four credits from among PHYS 201, and 207 may
Group A: Understanding and appreciation of the creative arts and humanities.	be counted toward graduation requirements; similarly no more than four from among PHYS 202, 208. Students interested in majoring in Physics who
Group B: The study of culture and institutions over time.	have taken an introductory sequence other than PHYS 207/208 should con-
Group C: Empirically based study of human beings and their environment.	sult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation
MAJOR REQUIREMENTS	may be given with permission of the Physics chair
Ordinarily, no more than four credits from among PHYS 201, and 207 may	PHYS 207/208/209 Fundamentals of Physics I, II and III 11 PHYS 306 Computational Methods of Physics 3
be counted toward graduation requirements; similarly no more than four from among PHYS 202, 208 Students interested in majoring in Physics who	PHYS 313 Physical Optics
have taken an introductory sequence other than PHYS 207/208 should con-	PHYS 419 Classical Mechanics I 3 PHYS 603 Electricity and Magnetism I 3
sult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation	PHYS 603 Electricity and Magnetism I
may be given with permission of the Physics chair.	PHYS 621 Fundamentals of Modern Physics I
PHYS 133 Introduction to Astronomy	PHYS 645 Electronics for Scientists 3 PHYS 646 Instrumentation for Scientists 3
PHYS 207/208/209 Fundamentals of Physics I, II and III	MATH 241/242/243 Analytic Geometry and Calculus A, B and C
PHYS 313 Physical Optics 4	MATH 302 Ordinary Differential Equations 3
PHYS 419 Classical Mechanics I 3 PHYS 422 Quantum Mechanics 3	MATH 349 Elementary Linear Algebra 3
PHYS 449 Introduction to Research	Natural Science CHEM 103/104 General Chemistry
PHYS 603 Electricity and Magnetism I	CHEM 443/444 Physical Chemistry 6
PHYS 620 Classical Mechanics II 3	CHEM 457 Inorganic Chemistry
PHYS 621 Fundamentals of Modern Physics I 3 PHYS 632 Astrophysics 3	ELECTIVES
PHYS 633 Stellar Astrophysics	After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree
PHYS 645 Electronics for Scientists 3 PHYS 646 Instrumentation for Scientists 3	·
MATH 241/242/243 Analytic Geometry and Calculus A, B and C 12	CREDITS TO TOTAL A MINIMUM OF 130
MATH 302 Ordinary Differential Equations 3	
MATH 349 Elementary Linear Algebra 3	DEGREE: BACHELOR OF SCIENCE
GEOL 109 Planets, Asteroids, and Impacts	MAJOR: PHYSICS CONCENTRATION: MATERIALS PHYSICS
ELECTIVES After required courses are completed, sufficient elective credits must be	CURRICULUM CREDIT
taken to meet the minimum credit requirement for the degree	UNIVERSITY REQUIREMENTS
CREDITS TO TOTAL A MINIMUM OF 130	ENGL 110 Critical Reading and Writing (minimum grade C-)
	Three credits in an approved course or courses stressing
DEGREE: BACHELOR OF SCIENCE	COLLEGE REQUIREMENTS Writing: (minimum grade C-) 3
MAJOR: PHYSICS CONCENTRATION: CHEMICAL PHYSICS	A second writing course involving significant writing experience including
CURRICULUM CREDITS	two papers with a combined minimum of 3,000 words to be submitted for
UNIVERSITY REQUIREMENTS	extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate writing
ENGL 110 Critical Reading and Writing (minimum grade C-)	courses are normally designated in the semester's Registration Booklet
Three credits in an approved course or courses stressing	(See list of courses approved for second writing requirement, page 81)
multicultural, ethnic, and/or gender-related content (see p 57)	Foreign Language: 0-12 Completion of the intermediate-level course (107 or 112) in a given lan-
COLLEGE REQUIREMENTS	guage Number of credits needed and initial placement will depend on
Writing: (minimum grade C-)	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
ing two papers with a combined minimum of 3,000 words to be submit-	attempt to fulfill the requirement in that language by taking an exemption
ted for extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. Appropriate	examination.
writing courses are normally designated in the semester's Registration	Breadth Requirements (See page 83)
Booklet. (See list of courses approved for second writing requirement,	A total of twenty-one credits from Groups A, B and C is 21 required with a minimum of six credits in each group. The six credits
page 81.) Foreign Language: 0-12	from each group could be from the same area
Foreign Language: 0-12 Completion of the intermediate-level course (107 or 112) in a given lan-	Group A: Understanding and appreciation of the creative arts and humanities.
guage Number of credits needed and initial placement will depend on	Group B: The study of culture and institutions over time.
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	Group C: Empirically based study of human beings and their environment.
attempt to fulfill the requirement in that language by taking an exemption	MAJOR REQUIREMENTS
examination.	Ordinarily, no more than four credits from among PHYS 201, and 207 may be counted toward graduation requirements; similarly no more than four
	and the state of t

from among PHYS 202, 208. Students interested in majoring in Physics who have taken an introductory sequence other than PHYS 207/208 should consult with a member of the Physics faculty to consider the need for additional introductory courses, for which some additional credit toward graduation may be given with permission of the Physics chair.

PHYS 207/2	08/209 Fundamentals of Physics I, II and III
PHYS 306	Computational Methods of Physics
PHYS 313	Physical Optics 4
PHYS 419	Classical Mechanics I 3
PHYS 422	Quantum Mechanics
PHYS 603	Electricity and Magnetism I
PHYS 616	Kinetic Theory and Thermodynamics 3
PHYS 621	Fundamentals of Modern Physics I
PHYS 624	Introduction to Solid State Physics
PHYS 645	Electronics for Scientists 3
PHYS 646	Instrumentation for Scientists
PHYS 647	Modern Physics Laboratory 3
MATH 241/2	242/243 Analytic Geometry and Calculus A, B and C
MATH 302	Ordinary Differential Equations
MATH 349	Elementary Linear Algebra
CHEM 1037	,
CHEM 103/	104 General Chemistry 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 130

DEGREE: BACHELOR OF ARTS MAJOR: PHYSICS EDUCATION

CREDITS

See page 78 for University and College requirements. Note: MATH 241 Analytical Geometry and Calculus A satisfies the Mathematics Skills College requirement and is strongly recommended as the first math course for physics education majors, unless the placement exam suggests differently.

MAJOR REQUIREMENTS

PHYS 207/208/209 Fundamentals of Physics I, II and III 11 Nineteen credits, fifteen of which must be at the 300-level or higher 19 MATH 241/242/243 Analytic Geometry and Calculus A, B and C 12 CHEM 103/104 General Chemistry 8 EDUC 201 Diversity in the Classroom 3 EDUC 304 Educational Psychology – Social Aspects 3 EDUC 305 Educational Psychology – Cognitive Aspects 3 SCEN 491 Teaching Science in Secondary Schools 4 EDUC 420 Reading in the Content Areas 1 EDUC 400 Student Teaching 9			
CHEM 103/104 General Chemistry 8 EDUC 201 Diversity in the Classroom 3 EDUC 304 Educational Psychology – Social Aspects 3 EDUC 305 Educational Psychology – Cognitive Aspects 3 SCEN 491 Teaching Science in Secondary Schools 4 EDUC 420 Reading in the Content Areas 1	PHYS 207/20 Nineteen cred	08/209 Fundamentals of Physics I, II and III	1 9
EDUC 304 Educational Psychology – Social Aspects 3 EDUC 305 Educational Psychology – Cognitive Aspects 3 SCEN 491 Teaching Science in Secondary Schools 4 EDUC 420 Reading in the Content Areas 1	MATH 241/2 CHEM 103/1	42/243 Analytic Geometry and Calculus A, B and C	2 8
	EDUC 304 EDUC 305 SCEN 491 EDUC 420	Educational Psychology – Social Aspects Educational Psychology – Cognitive Aspects Teaching Science in Secondary Schools Reading in the Content Areas	3 4 1

To be eligible to student teach, Physics Education students must have a g.p.a of 2.75 in their physics major and an overall g.p.a. of 2.5. Stu-dents should consult the teacher education program coordinator (see list on p. 176) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR A MINOR IN PHYSICS

5 tudents in other majors can declare a physics minor, consisting of PHYS 207-208 plus 9 credits from PHYS courses at or above the 300level. Students considering minoring in physics should consult the physics associate chair for advice or prerequisites for these courses and for assignment to an advisor.

POLITICAL SCIENCE AND INTERNATIONAL RELATIONS

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

Telephone: (302) 831-2355

http://www.udel.edu/POSCISR/index.html

POLITICAL SCIENCE

The Department offers major programs leading to the B.A. in Political Science, the B.A. in Political Science Education, and a joint program with the Department of Foreign Languages and Literatures leading to a B.A. in French, German, or Spanish/Political Science. Honors degree options are available for all degrees. A minor in political science is also available, as well as a minor in public administration.

Political science majors acquire a broad introduction to the study of government and politics within a liberal arts tradition. Majors are required to complete at least sixty percent of their work in upper-division (300- and 400-level) courses in four of the five subfields in the discipline, a way to gain appreciation for non-U.S., international, and philosophical topics. Coursework typically helps students develop analytic and communication skills that have lifetime benefits as preparation for a wide array of careers (including law) and active citizenship. Beyond traditional classroom experiences, majors may also engage in several experiential learning opportunities: internships in political organizations, public agencies, and community service agencies; independent research under faculty direction; participation in a department-sponsored study abroad experience. Detailed explanations of requirements and opportunities are available in the department office.

Students changing their major to political science must have completed POSC 105 with a grade of C- or better and completed at least 12 additional hours of University courses. Students must have a minimum of a 2.3 average to change their major to political science. Students transferring into the major from outside the University of Delaware will have their transcripts evaluated by the Department on a case-by-case basis.

The department maintains an advisory program for prelaw students and for students interested in government service.

Except as otherwise indicated, nonmajors may enroll in any political science course without prerequisites.

DEGREE: BACHELOR OF ARTS MAJOR: POLITICAL SCIENCE

CURRICULUM CREDIT
See page 78 for University and College requirements.
MAJOR REQUIREMENTS
POSC 105 The American Political System
Eighteen credits distributed as follows:
A student must take at least one course numbered at the 300 or 400-level in four of the five fields listed below: (Detailed list available in

- department office)
 - a. American Government and Politics
 - b. Comparative Government and Politics
 - International Relations
 - d Public Administration and Public Policy
 - e. Political Theory

Political Science courses including courses at the 200-level, POSC 302 Research Methods (Recommended), Independent Study (POSC 366, 466), POSC 458 Community Service Fieldwork or POSC 464 Fieldwork in Political Science (Internship)

No more than three courses at the 200-level can be counted toward the thirty credits required for completion of the major

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

DEGREE: BACHELOR OF ARTS MAJOR: POLITICAL SCIENCE ED	UCATION
CURRICULUM	CREDITS
See page 78 for University and Co	llege requirements.
MAJOR REQUIREMENTS	
POSC 105 The American Political System	em 3
Eighteen credits distributed as follows: Nine credits from courses at the 400-le at the 300 or 400-level.	vel; nine credits from courses
A student must take at least one course nu level in four of the five fields listed below: department office) a. American Government and Politics b. Comparative Government and Politic c. International Relations d. Public Administration and Public Pol e. Political Theory	(Detailed list available in
Political Science courses	s (Recommended)
No more than three courses at the 200-leve thirty credits required for completion of the	
ECON 152 Introduction to Macroecond GEOG 120 World Regional Geography World History 1648 to Pres	mics 3 mics 3 / 3 ient 3 esent 3
EDUC 304 EDUC 305 Educational Psychology – S Edu	
To be eligible to student teach, Political Schave a g.p.a. of 3 0 in their major and a should consult the teacher education prog 176) to obtain the student teaching applic	n overall g.p.a. of 2.75. Students ram coordinator (see list on p.

cerning student teaching policies CREDITS TO TOTAL A MINIMUM OF 124

HONORS BACHELOR OF ARTS: POLITICAL SCIENCE OR POLITICAL SCIENCE EDUCATION

A candidate for the Honors Bachelor of Arts in Political Science or Political Science Education must:

- 1. Fulfill all requirements for the B.A. in Political Science or Political Science Education.
- 2. Fulfill all the University's generic requirements for the Honors Degree (see page 43 of this catalog).

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

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

CREDITS

See page 78 for University and College requirements. MAJOR REQUIREMENTS

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

POSC 105	The American Political System (or other required intro courses)	3
POSC 270	Introduction to International Relations Comparative Politics European Governments	3

POSC 441 Problems of Western European Politics by Country 3
or POSC 442 Problems of Western European Politics
In addition to completing the courses listed below, students are required to participate in a semester abroad program sponsored by the Department of Foreign Languages and Literatures (in Paris, or the equivalent, for French; in Bayreuth, or the equivalent, for German; in Granada, or the equivalent, for Spanish).
One of the following language options:
French FREN 2xx, 3xx, 4xx (Prior to semester abroad; FREN 255 recommended) 6 FREN 3xx, 4xx 12 FREN 4xx (literature) (Newark campus only) 3
German GRMN 2xx, 3xx, 4xx [Prior to semester abroad; GRMN 255 recommended] 6 GRMN 3xx, 4xx 12 GRMN 4xx [literature] (Newark campus only) 3
SpanishSPAN 2xx, 3xx, 4xx (Prior to semester abroad; SPAN 255 recommended)6SPAN 3xx, 4xx12SPAN 4xx (literature) (Newark campus only)3
The following courses taken abroad count toward the French, German, or Spanish/Political Science major:
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

5 tudents wishing to complete an Honors B.A. in French, German, or Spanish/Political Science must:

- 1. Complete all requirements of the B.A. in French, German, or Spanish /Political Science.
- 2. Complete all the University's generic requirements for the Honors Degree (see page 43 of this catalog)

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.

REQUIREMENTS FOR A MINOR IN POLITICAL SCIENCE

The required 15 credits for a minor are distributed as follows:

Lower-division courses: POSC 105

Field requirements. Three courses numbered 300 or above are required and must be taken in two of the five fields of political science, as indicated under requirements for the major. Two of these courses must be at the 400-level. Students are required to take one additional political science course.

REQUIREMENTS FOR A MINOR IN PUBLIC ADMINISTRATION

The required 18 credits for this minor are distributed as follows:

Lower-division course: POSC 105, 302, 303.

Field requirements: Any two of three courses numbered 400 or above in Public Budgeting and Financial Management, Organization Theory, and Public Personnel Administration are required. Students are also required to take one additional course from a list of nine political science electives.

INTERNATIONAL RELATIONS

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

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

Study Abroad, Internships, and Undergraduate Research: International Relations majors are strongly encouraged to consider a study abroad experience as a part of their program. Students participating in study abroad programs not only enrich their education through exposure to foreign cultures, but often have the opportunity to take courses, internships, and undertake other educational experiences abroad not otherwise offered in University of Delaware course lists. In many instances, these courses may count towards IR Concentration and Regional Specialization requirements. 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 IR Program Director when enrolling in study abroad courses and programs, internships, and undergraduate research programs to determine if the specific course, program, or educational experience meets a particular IR major requirement, or, if some major requirement might be waived by means of study abroad, internships, or undergraduate research programs.

Transfer Students: Students changing their major to international relations must have completed POSC 240 with a grade of C or better and completed at least 12 additional hours of university courses. Students must have a minimum of a 2.3 average to change their major to international relations. Students transferring to the major from outside the University of Delaware will have their transcripts evaluated by the director on a case-by-case basis.

DEGREE: BACHELOR OF ARTS MAJOR: INTERNATIONAL RELATIONS CURRICULUM CREDITS		
	8 for University and College requirements.	
	QUIREMENTS	
The core cons POSC 240 ECON 151 ECON 152 ECON 340 GEOG 120 One Foreign	sists of 24 hours of course work: Introduction to International Relations	
One course fr HIST 102 or	rom: 3 Western Civilization I648 to Present	
HIST 104	World History 1648 to Present	
And one history HIST 131 HIST 134 HIST 135 HIST 137 HIST 138	ory course from: 3 Islamic Near East 1500 to Present History of Africa Introduction to Latin American History East Asian Civilization: China East Asian Civilization: Japan	
Concentrati		
Diplomacy ar U.S. Foreign	choose one of four IR concentrations: (1) Development, (2) and World Order, (3) International Political Economy, or (4) Policy. Each concentration requires 18 hours of course st three courses must be taken at the 400-level centration.	
Developme	nt Concentration	
Required POSC 311	Politics of Developing Nations	
At least two (c) POSC 316 POSC 341 POSC 362 POSC 408 POSC 414 POSC 444 POSC 445 POSC 448 POSC 463 POSC 465 POSC 640	6 credits) from: International Political Economy Environment of Multinational Corporations Diplomacy Problems of International Relations Problems of U.S. Foreign Policy Seminar in World Politics Human Rights and World Politics Theories of International Relations The United Nations and World Affairs Model OAS International Development Policy and Administration	
At least one (3 credits) from:	
ECON 305 ECON 311 ECON 341 ECON 405 ECON 411 ECON 443	Comparative Economic Systems Economics of Developing Countries Environment of Multinational Corporations Planned Economies Economic Theory of Developing Countries International Monetary Economics	
	approved to fulfill the mum in addition to courses listed above	
ANTH 225 ANTH 230 ANTH 231 ANTH 330 ANTH 363 ANTH 370 ANTH 408 GEOG 210 GEOG 236 GEOG 422 GEOG 460 HIST 395 SOCI 210 SOCI 360 SOCI 361 SOCI 380 SOCI 460	Technology and Culture Peasant Societies Peoples of the World Personality and Culture Development and Underdevelopment Women in Cross- Cultural Development Culture/Food Production and Economic Development Ecological Anthropology The Idea of Race Economic Geography Conservation: Global Issues Resources Development and the Environment Women in International Development Pan Africanism Population Problems Sociology of Religion Race, Power and Social Conflict Development and Modernization Women in International Development	
FREC 410 FREC 420 PHIL 204	International Agricultural Trade Agriculture in Economic Development World Religions	

Diplomacy and World Order Concentration	GEOG 203 Introduction to Cultural Geography
Required:	GEOG 210 Economic Geography GEOG 236 Conservation: Global Issues
POSC 362 Diplomacy 3	GEOG 230 Conservation: Global issues GEOG 422 Resources Development and the Environment
At least two (6 credits) from:	GEOG 426 World Cities in Comparative Perspective
POSC 313 American Foreign Policy	GEOG 460 Women in International Development
POSC 316 International Political Economy	HIST 210 War and Society
POSC 330 Political Terrorism	HIST 302 The World in Our Time
POSC 333 Communism Fascism and Democracy	HIST 306 History of U.S. Foreign Policy
POSC 341 Environment of Multinational Corporations	HIST 351 Europe in Crisis 1919-1945
POSC 363 International Law and Organization POSC 365 Model United Nations	SOCI 210 Population Problems
POSC 408 International Organization	SOCI 380 Development and Modernization
POSC 409 Problems of International Relations	SOCI 460 Women in International Development FREC 410 International Agricultural Trade
POSC 414 Problems of U.S. Foreign Policy	FREC 420 Agriculture in Economic Development
POSC 415 Force and World Politics	
POSC 444 Seminar in World Politics3	U.S. Foreign Policy Concentration
POSC 445 Human Rights and World Politics	Required:
POSC 448 Theories of International Relations	POSC 313 American Foreign Policy 3
POSC 463 The United Nations and World Affairs	At least two (6 credits) from:
POSC 465 Model OAS	POSC 330 Political Terrorism
POSC 604 International Law	POSC 333 Communism, Fascism, and Democracy
At least one (3 credits) from:	POSC 341 Environment of Multinational Corporations
ECON 305 Comparative Economic Systems	POSC 362 Diplomacy POSC 363 International Law and Organization
ECON 341 Environment of Multinational Corporations	POSC 408 International Organization
ECON 443 International Monetary Economics	POSC 409 Problems of International Relations
Other courses approved to fulfill the 18 credit	POSC 414 Problems of U.S. Foreign Policy
concentration minimum in addition to courses listed above	POSC 415 Force and World Politics
ANTH 222 Technology and Culture	POSC 444 Seminar in World Politics
ANTH 230 Peoples of the World	POSC 445 Human Rights and World Politics
ANTH 377 Ecological Anthropology	POSC 448 Theories of International Relations
ANTH 408 The Idea of Race	POSC 463 The United Nations and World Affairs
GEOG 102 Human Geography	POSC 465 Model OAS
GEOG 203 Introduction to Cultural Geography	POSC 604 International Law
GEOG 210 Economic Geography GEOG 236 Conservation: Global Issues	At least one (3 credits) from:
GEOG 422 Resources Development and the Environment	ECON 305 Comparative Economic Systems
GEOG 426 World Cities in Comparative Perspective	ECON 311 Economics or Developing Countries
HIST 210 War and Society	ECON 341 Environment of Multinational Corporations
HIST 254 Jewish Holocaust 1933-1945	ECON 405 Planned Economies
HIST 302 The World in Our Time	ECON 411 Economic Theory of Developing Countries ECON 443 International Monetary Economics
HIST 306 History of U.S. Foreign Policy	•
HIST 351 Europe in Crisis 1919-1945	Other courses approved to fulfill the 18 credit
HIST 481 Seminar in Military History	concentration minimum in addition to courses listed above 0-6
HIST 483 Seminar in Comparative History	ANTH 222 Technology and Culture
SOCI 210 Population Problems SOCI 306 Personality and Society	ANTH 230 Peoples of the World ANTH 401 The Idea of Race
SOCI 320 Personality and Politics	GEOG 102 Human Geography
SOCI 360 Sociology of Religion	GEOG 210 Economic Geography
SOCI 361 Race, Power and Social Conflict	GEOG 422 Resources Development and the Environment
SOCI 460 Women in International Development	GEOG 426 World Cities in comparative Perspective
FREC 410 International Agricultural Trade	HIST 210 War and Society
FREC 420 Agriculture in Economic Development	HIST 302 The World in Our Time
PHIL 204 World Religions	HIST 306 History of U.S. Foreign Policy
Political Economy Concentration	HIST 351 Europe in Crisis 1919-1945
Required:	HIST 481 Seminar in Military History
POSC 316 International Political Economy 3	HIST 483 Seminar in Comparative History SOCI 210 Population Problems
At least two (6 credits) from:	SOCI 210 Population Problems SOCI 306 Personality and Society
POSC 333 Communism, Fascism, and Democracy	SOCI 320 Personality and Politics
POSC 341 Environment of Multinational Corporations	SOCI 361 Race, Power and Social Conflict
POSC 362 Diplomacy	PHIL 204 World Religions
POSC 409 Problems of International Relations	
POSC 414 Problems of U.S. Foreign Policy	Regional Specializations
POSC 444 Seminar in World Politics	Students must choose one of six regional specializations: (1) Africa, (2)
POSC 448 Theories of International Relations	
POSC 640 International Development and Policy Administration	Asia, (3) Europe, (4) Latin America, (5) Middle East, (6) Russia/Central
	Europe. Specializations require 9 hours of course work. At least one
At least one (3 credits) from:	
ECON 305 Comparative Economic Systems	Europe. Specializations require 9 hours of course work. At least one
ECON 305 Comparative Economic Systems ECON 311 Economics of Developing Countries	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization.
ECON 305 Comparative Economic Systems ECON 311 Economics of Developing Countries ECON 341 Environment of Multinational Corporations	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization. African Specialization
ECON 305 Comparative Economic Systems ECON 311 Economics of Developing Countries ECON 341 Environment of Multinational Corporations ECON 405 Planned Economies	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization. African Specialization At least one course (3 credits) from:
ECON 305 Comparative Economic Systems ECON 311 Economics of Developing Countries ECON 341 Environment of Multinational Corporations ECON 405 Planned Economies ECON 411 Economic Theory of Developing Countries	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization. African Specialization At least one course (3 credits) from:
ECON 305 Comparative Economic Systems ECON 311 Economics of Developing Countries ECON 341 Environment of Multinational Corporations ECON 405 Planned Economies ECON 411 Economic Theory of Developing Countries International Monetary Economics	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization. African Specialization At least one course (3 credits) from: 3 POSC 270 Comparative Politics POSC 311 Politics of Developing Countries POSC 433 African Politics POSC 439 Southern African Politics
ECON 305 ECON 311 ECON 341 ECON 405 ECON 411 ECON 443 Comparative Economic Systems Economics of Developing Countries Economics Economics Economics Economic Theory of Developing Countries International Monetary Economics Other courses approved to fulfill the 18 credit	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization. African Specialization At least one course (3 credits) from: 3 POSC 270 Comparative Politics POSC 311 Politics of Developing Countries POSC 433 African Politics POSC 439 Southern African Politics
ECON 305 Comparative Economic Systems ECON 311 Economics of Developing Countries ECON 405 Planned Economies ECON 411 Economic Theory of Developing Countries ECON 443 International Monetary Economics Other courses approved to fulfill the 18 credit concentration minimum in addition to courses listed above 0-6	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization. African Specialization At least one course (3 credits) from:
ECON 305 Comparative Economic Systems ECON 311 Economics of Developing Countries ECON 405 Planned Economies ECON 411 Economic Theory of Developing Countries ECON 443 International Monetary Economics Other courses approved to fulfill the 18 credit concentration minimum in addition to courses listed above 0-6 ANTH 222 Technology and Culture	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization. African Specialization At least one course (3 credits) from: 3 POSC 270 Comparative Politics POSC 311 Politics of Developing Countries POSC 433 African Politics POSC 439 Southern African Politics Any two courses from: 6 ANTH 225 Peasant Societies ANTH 260 Sociocultural History of Africa
ECON 305 ECON 311 ECON 311 ECON 341 ECON 405 ECON 411 ECON 443 ECON 443 CONTROLL THE TOTAL THE T	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization. African Specialization At least one course (3 credits) from: 3 POSC 270 Comparative Politics POSC 311 Politics of Developing Countries POSC 433 African Politics POSC 439 Southern African Politics Any two courses from: 6 ANTH 225 Peasant Societies ANTH 260 Sociocultural History of Africa ANTH 330 Development and Underdevelopment
ECON 305 Comparative Economic Systems ECON 311 Economics of Developing Countries ECON 405 Planned Economies ECON 411 Economic Theory of Developing Countries ECON 443 International Monetary Economics Other courses approved to fulfill the 18 credit concentration minimum in addition to courses listed above 0-6 ANTH 222 Technology and Culture	Europe. Specializations require 9 hours of course work. At least one course must be at the 400-level in each specialization. African Specialization At least one course (3 credits) from: 3 POSC 270 Comparative Politics POSC 311 Politics of Developing Countries POSC 433 African Politics POSC 439 Southern African Politics Any two courses from: 6 ANTH 225 Peasant Societies ANTH 260 Sociocultural History of Africa

HIST 134 HIST 330 HIST 394 HIST 395 HIST 397 HIST 439 HIST 440	History of Africa Peasants and Revolution in Africa Africa Since 1960 Pan Africanism History of South Africa Women and Revolution in Africa Africa Under Colonial Rule	
Asian Spec	ialization	
•	course (3 credits) from: 3 Comparative Politics Politics of Developing Countries East Asian Political Systems Politics in China Politics in Japan China and the World	
Any two cour ANTH 225 ANTH 330 ECON 305 ECON 311 ECON 401 ECON 411 HIST 137 HIST 138 HIST 270 HIST 368 HIST 369 HIST 370 HIST 390 HIST 390 HIST 393 HIST 479 PHIL 309 PHIL 310	ses from:	
Furanean S	pecialization	
At least one of POSC 270 POSC 310 POSC 339 POSC 441 POSC 442	ourse (3 credits) from: Comparative Politics European Government Britain and Europe Problems of European Politics: Countries Problems of Western European Politics ses from: Ses from: Comparative Economic Systems Economic History of France Environment of Multinational Corporations The Making of the European Economy Industrial Policies of France Analysis of European Economic Performance New Europe: Culture, Geopolitics, Milieu The Jewish Holocaust, 1933-1945 Modern Germany, 1770-1919 Topics in Modern Europe History Europe in Crisis, 1919-1945 Contemporary European Society Germany in the Twentieth Century Modern Ireland, 1534 to Present History of England to 1715 History of England 1715 to Present English Legal and Constitutional History Studies in English History Seminar in Modern European History Contemporary Spain II Contemporary Spain II Contemporary Germany II	
FREN 308	Contemporary France II	
Latin American Specialization		
POSC 270 POSC 311 POSC 426 POSC 431	Durse (3 credits) from: 3 Comparative Politics Politics of Developing Nations Latin American Political System Latin American Politics: Country	
Any two cours ANTH 225 ANTH 327 ANTH 330	es from:	

ANTH 375 ANTH 380 ECON 305 ECON 311 ECON 341 ECON 411 GEOG 226 HIST 135 HIST 331 HIST 332 HIST 334 HIST 335 HIST 430 HIST 477	Peoples Cultures of Modern Central America Peoples Cultures of Mexico Central America Comparative Economic Systems Economics of Developing Countries Environment of Multinational Corporations Economic Theory of Developing Countries Geography of Latin America Introduction to Latin American History Caribbean History I Caribbean History II History of Mexico Colonial Latin America Seminar in 20th Century Latin America Studies in Latin American History
Middle East	Specialization
At least one c POSC 270 POSC 311 POSC 377	ourse (3 credits) from: 3 Comparative Politics Politics of Developing Nations Arab-Israeli Politics
Any two cours ANTH 330 ECON 305 ECON 341 HIST 131 HIST 377 HIST 380	ses from: 6 Development and Underdevelopment Comparative Economic Systems Environment of Multinational Corporations Islamic Near East 1500 to Present Islamic Movement Arab-Israeli Conflict
Russia/Cen	tral European Specialization
At least one of POSC 270 POSC 372 POSC 412 POSC 432	ourse (3 credits) from: 3 Comparative Politics East Central European Politics Foreign Policy of Post-Soviet Union Political System Post-Soviet Union
Any two cours ANTH 225 ECON 305 ECON 405 GEOG 454 HIST 358 HIST 359	ses from:
ELECTIVES	S
	courses are completed, sufficient elective credits must be the minimum credit requirement for the degree.
CREDITS TO	O TOTAL A MINIMUM OF 124

HONORS BACHELOR OF ARTS: INTERNATIONAL RELATIONS

A candidate for the Honors Bachelor of Arts in International Relations must:

- 1. Fulfill all requirements for the B.A. in International Relations.
- 2. Fulfill all the University's generic requirements for the Honors Degree (see page 43 of this catalog).

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

PSYCHOLOGY

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

Psychology is a biological, behavioral, social, and applied science, whose theories are integral to an understanding of ourselves and our place in the world. Students first learn the fundamentals of biology and psychology and then concentrate on courses that examine the structure and function of the nervous system and its relationship to behavior. Detailed instructions regarding an interdepartmental major are available from the Department or the Arts and Science Advisement Center and Dean's Office.

The courses offered by the Department of Psychology provide students with an understanding of the principles of behavior, of the scientific methods used to derive and add to those principles, and of appropriate ways in which to apply such knowledge. Experimental psychology seeks to isolate in the laboratory the basic processes involved in neural systems, learning, perception, social behavior, personality development, thinking, etc. Applied psychology focuses on methods used to approach problems in settings such as industry, government, and the general community, as well as in the field of mental health. The many aspects of theoretical, experimental and applied psychology are represented in the introductory and 300-level courses, and more advanced courses enable students to pursue special interests in greater depth. Many courses offer experience in laboratory or field research. Laboratory experiences include the study of cognitive, learning, perceptual, physiological, and social processes, and the investigation of clinically interesting phenomena. Facilities are also available, both on campus and at nearby institutions, for computer modeling of psychological processes and for data analysis.

Telephone: (302) 831-2271

http://www.udel.edu/skeen/PSY/PSYhome.html

DECDEE, DACHELOD OF ADTO

DEGREE: BACHELOR OF ARTS MAJOR: PSYCHOLOGY
CURRICULUM CREDITS
See page 78 for University and College requirements.
MAJOR REQUIREMENTS
PSYC 201 General Psychology 3 Note that PSYC 201 is a prerequisite for all of the required higher level PSYC courses.
PSYC 309 Measurement and Statistics 3 Note that PSYC 309 must be taken after the MATH requirement is fulfilled; PSYC 309 is a prerequisite for PSYC 350, 370, 380, 390, 310, 312, 340.
PSYC 415 History and Systems of Psychology
One of the following four courses: PSYC 301 Personality PSYC 303 Introduction to Social Psychology PSYC 325 Child Psychology PSYC 334 Abnormal Psychology
One of the following four courses: 3 PSYC 350 Developmental Psychology PSYC 370 Research in Personality PSYC 380 Psychopathology PSYC 390 Social Psychology
Credit for the lower (e.g., PSYC 325) and higher (PSYC 350) level versions of these courses may not both be counted toward the 30 credit major. Both versions may be counted toward the 124 credits for the B.A., but if both are taken only credit for the lower numbered version will count toward the major. FOR EXAMPIE:
If PSYC 301 is taken, PSYC 350 cannot count towards the major If PSYC 301 is taken, PSYC 370 cannot count towards the major If PSYC 334 is taken, PSYC 380 cannot count towards the major. If PSYC 303 is taken, PSYC 390 cannot count towards the major.
Two of the following four courses: 6 PSYC 310 Sensation and Perception PSYC 312 Learning and Motivation PSYC 314 Brain and Behavior PSYC 340 Cognition
Two courses at or above the 400-level 6 however, PSYC 466 and 468 may not be used to fulfill this requirement Three credits of any Psychology course 3 [except PSYC 301, 303, 325 and 334]
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 CRED	ITS
See page 78 for University and College requirements.	
MAJOR REQUIREMENTS	
PSYC 201 General Psychology Note that PSYC 201 is a prerequisite for all of the required higher level PSYC courses	3
PSYC 309 Measurement and Statistics Note that PSYC 309 must be taken after the MATH requirement is fulfilled; PSYC 309 is a prerequisite for PSYC 350, 370, 380, 390, 310, 312, 340	3
PSYC 415 History and Systems of Psychology PSYC 415 must be taken after the student has completed the 300-level course requirements	3
One of the following four courses: PSYC 301 Personality PSYC 303 Introduction to Social Psychology PSYC 325 Child Psychology PSYC 334 Abnormal Psychology	3
One of the following four courses: PSYC 350 Developmental Psychology PSYC 370 Research in Personality PSYC 380 Psychopathology PSYC 390 Social Psychology	3
Credit for the lower (e.g., PSYC 325) and higher (PSYC 350) level versions of these courses may not both be counted toward the 30 credit major. Both versions may be counted toward the 124 credits for the B.A., but if both are taken only credit for the lower numbered version will count toward the major. FOR EXAMPLE:	
If PSYC 325 is taken, PSYC 350 cannot count towards the major. If PSYC 301 is taken, PSYC 370 cannot count towards the major. If PSYC 334 is taken, PSYC 380 cannot count towards the major. If PSYC 303 is taken, PSYC 390 cannot count towards the major.	
Two of the following four courses: PSYC 310 Sensation and Perception PSYC 312 Learning and Motivation PSYC 314 Brain and Behavior PSYC 340 Cognition	6
Two courses at or above the 400-level however, PSYC 466 and 468 may not be used to fulfill this requirement. Three credits of any Psychology course	
Twenty-four credits in the social sciences with at least three credits in each of the following departments: 2 Anthropology course Economics course Geography course History course Political Science course Sociology course	!4
Six additional credits selected from the social science departments listed above	6
EDUC 201 Diversity in the Classroom EDUC 304 Educational Psychology – Social Aspects EDUC 305 Educational Psychology – Cognitive Aspects HIST 491 Planning a Course of Instruction HIST 493 Seminar: Problems in Teaching History and Social Sciences EDUC 420 Reading in the Content Areas EDUC 400 Student Teaching	3 3 3
To be eligible to student teach, Psychology Education students must have a g.p.a. of 3.0 in their major and an overall g.p.a. of 2.75 . Students should consult the teacher education program coordinator (see list on p. 176) 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.

REQUIREMENTS FOR A MINOR IN PSYCHOLOGY

A minor in psychology requires 18 credits including PSYC 201; PSYC 309; one course chosen from PSYC 301, 303, 325, or 334; one course chosen from PSYC 310, 312, 314, or 340; one course chosen from PSYC 350, 370, 380, or 390; AND any three credits in psychology (with the following restrictions):

If PSYC 301 is taken, PSYC 370 may not be counted for the minor. If PSYC 303 is taken, PSYC 390 may not be counted for the minor. If PSYC 325 is taken, PSYC 350 may not be counted for the minor. If PSYC 334 is taken, PSYC 380 may not be counted for the minor.

RELIGIOUS STUDIES

The Religious Studies undergraduate minor is described as "interdisciplinary" because it involves work in three or more different departments. The general requirements include 15 credits from a list of approved courses. These must include PHIL 204 (World Religions) and at least two courses at the 300-level or higher in any of the three departments listed. For enrollment forms, course substitutions or exemptions, or a list of the approved courses, contact Professor Alan Fox, Department of Philosophy.

Telephone: (302) 831-8077 E-mail: AFOX@udel.edu

http://www.udel.edu/Philosophy/RelStud/

SOCIOLOGY AND CRIMINAL JUSTICE

The Department of Sociology and Criminal Justice administers separate undergraduate programs in Sociology and in Criminal Justice

Telephone: (302) 831-2581

http://www.udel.edu/soc/homepage.htm

SOCIOLOGY

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

Field Experience: One important feature of the sociology major program is a field experience in the data analysis, health services, law and society, and social welfare concentrations. Each field experience involves placement of students in various organizations and departments related to their area of interest, including city offices and agencies, hospitals and other health care organizations, human services and welfare agencies, and law offices and research bureaus. These field placement programs are offered during the winter session and involve four hours of pass/fail course credit. This credit is considered part of the student's related studies requirement.

Over a five-week period students are placed in the field between 120 and 180 hours, depending upon the nature of the work and the need of the student. In addition, students in each field placement meet in a two-hour weekly seminar (for five weeks) to discuss and analyze their experiences.

Advantages of the Field Experience Program

- Provides 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.

	ACHELOR OF ARTS OCIOLOGY	
CURRICULUM		CREDITS
See page 7	8 for University and College requirements.	
MAJOR RE	QUIREMENTS	
At least 6 c	Introduction to Sociology Introduction of Sociological Research Theories of Society gy courses with no more than 12 credits at the 200-level credits must be at the 400-level or higher, but cannot be ful-	
the advisor, nomics, Bla	n related subjects chosen in consultation with	15
ELECTIVE	S	
	courses are completed, sufficient elective credits must be the minimum credit requirement for the degree.	
CREDITS TO	O TOTAL A MINIMUM OF	124
MAJOR: SO CONCENTION CURRICULUM		CREDITS
. •	8 for University and College requirements.	
	QUIREMENTS	2
SOCI 201 SOCI 301 SOCI 312 SOCI 401 SOCI 411 SOCI 414	Introduction to Sociology Introduction of Sociological Research Theories of Society Advanced Sociological Methods Techniques of Demographic Analysis Data Analysis	3
Any five other at the 200-	courses in Sociology, with no more than 12 creditslevel At least 6 credits must be at the 400-level or higher, be fulfilled with 400-level directed study courses (466).	
This course	Practicum is required but does not count as part of the thirty-four credits for the major.	4
STAT 201 STAT 202	Introduction to Statistics I	
Three courses GEOG 250 GEOG 470 PHIL 245 PHIL 320 ECON 422 STAT 418 STAT 420	chosen from the following: Computer Methods in Geography Computer Cartography Ethical Issues in Scientific Research Theory of Knowledge Econometric Methods and Models I Sampling Methods Data Analysis and Nonparametric Statistics	9-11
ELECTIVES		
	courses are completed, sufficient elective credits must be the minimum credit requirement for the degree.	
CREDITS TO	O TOTAL A MINIMUM OF	124
DECREE, D	ACUELOD OF ADTS	

DEGREE: BACHELOR OF ARTS MAJOR: SOCIOLOGY

CONCENTRATION: HEALTH SERVICES CURRICULUM

See page 78 for University and College requirements.		
MAJOR R	EQUIREMENTS	
SOCI 201	Introduction to Sociology	
SOCI 301	Introduction of Sociological Research 4	
SOCI 310	Sociology of Health Care	

CREDITS

SOCI 311 SOCI 312 Any five add	Hospitals		BACHELOR OF ARTS SOCIOLOGY
at the 20	O-level. At least 6 credits must be at the 400-level or higher,	CONCEN	TRATION: SOCIAL WELFARE
but canno	ot be fulfilled with 400-level directed study courses (466). 11 and 348 recommended for those interested in medical	CURRICULU	
social wa		See page	78 for University and College requirements.
SOCI 410	Health Services Practicum and Seminar		EQUIREMENTS
	is required but does not count as part of the thirty-one Sociol-	SOCI 201 SOCI 301	Introduction to Sociology
	for the major.	SOCI 3112	Theories of Society 3
will be se	ional credits of related work are required and	SOCI 341	Welfare and Society 3
offering of	courses filling the needs of health concentration students	SOCI 348 SOCI 441	Theories of Social Work Practice
include A	anthropology, Business Administration, Science and Culture, cs, Individual and Family Studies, Philosophy, Psychology,	This course	is required but does not count as part of the thirty-one Sociol-
	nen's Studies	ogy credits	for the major
ELECTIV	ES	Any five cou	urses in Sociology, no more than 12 credits at the 200-level 15
After require	ed courses are completed, sufficient elective credits must be	filled with 4	redits must be at the 400-level or higher, but cannot be ful- 00-level directed study courses (466) The following courses
taken to me	et the minimum credit requirement for the degree	are recomm	ended:
CREDITS	TO TOTAL A MINIMUM OF 124	SOCI 202 SOCI 204	Social Deviance Urban Communities
		SOCI 303	Juvenile Delinquency
		SOCI 304	Criminology
	BACHELOR OF ARTS SOCIOLOGY	SOCI 305 SOCI 308	Social Class and Inequality The Family
	TRATION: LAW AND SOCIETY	SOCI 346	Sociology of Aging
CURRICULU		SOCI 361 SOCI 448	Race, Power and Šocial Conflict Community Based Treatment
	78 for University and College requirements.		tional credits of related work are required11
MAJOR R	EQUIREMENTS		clude the following:
SOCI 201	Introduction to Sociology	POSC 411	Politics and Poverty
SOCI 301	Introduction of Sociological Research 4	PSYC 301 PSYC 322	Personality Psychology of Adjustment
SOCI 312 SOCI 345	Theories of Society 3 Sociology of Law 3	PSYC 325	Child Psychology
SOCI 456	Lawyers and Society 3	PSYC 334	Abnormal Psychology
-SOCI 495	Law and Society Practicum and Seminar	EDCE 334 IFST 235	Experiential Education Survey in Child and Family Services
	se is required but does not count as part of the thirty-one	or	
٠,	v credits for the major.	Other course	es chosen with the approval of the advisor.
at the 20	er courses in Sociology, with no more than 12 credits		ed courses are completed, sufficient elective credits must be
	ourses for the study of family/gender include:	taken to me	et the minimum credit requirement for the degree
SOCI 202 SOCI 213	Social Deviance Men and Women in American Society	CREDITS '	TO TOTAL A MINIMUM OF 124
SOCI 303	Juvenile Delinquency		
SOCI 308	The Family	DECREE	DACUELOD OF ARTS
SOCI 330 SOCI 407	Population, Law and Society Sociology of Sex and Gender	_	BACHELOR OF ARTS SOCIOLOGY EDUCATION
	ourses in the organization/work area:	CURRICULU	
SOCI 327	Sociology of Organizations		78 for University and College requirements.
SOCI 330 SOCI 355	Population, Law and Society Computers, Ethics and Society		EQUIREMENTS
SOCI 428	Corporate Crime	SOCI 201	Introduction to Sociology 3
SOCI 450	Political Sociology	SOCI 301	Introduction of Sociological Research 4
	ts from the following courses are recommended:	SOCI 312	Theories of Society
CRJU 320 CRJU 347	Introduction to Criminal Law The Jury: Guilty or Not Guilty	at the 20	O-level. At least 6 credits must be at the 400-level or higher,
CRJU 357	Seminar on the Police		ot be fulfilled with 400-level directed study courses (466)
CRJU 425 CRJU 4xx	Criminal Law and Social Policy Contemporary Debates		credits in the social sciences with
POSC 402	Civil Liberties I	Anthropolog	nree credits in each of the following departments:
POSC 404	The Judicial Process	Economics of	ourse
POSC 405 POSC 406	Constitutional Law of the U.S. Civil Liberties II	Geography	
PHIL 201	Social and Political Philosophy	History cour Political Scie	
PHIL 446	Philosophy of Law	PSYC 201	General Psychology
HIST 301 HIST 309	The Worker in American Life U.S. Business and Political Economy	Six addition	al credits selected from the social science departments listed above 6
	iting course in any department	EDUC 201	Diversity in the Classroom
A course in a	oral communication is suggested 3	EDUC 304 EDUC 305	Educational Psychology – Social Aspects 3 Educational Psychology – Cognitive Aspects 3
ELECTIVI		EDUC 420	Reading in the Content Areas
	d courses are completed, sufficient elective credits must be	HIST 491	Planning a Course of Instruction
taken to mee	t the minimum credit requirement for the degree	HIST 493 EDUC 400	Seminar: Problems in Teaching History and Social Sciences 3 Student Teaching
CREDITS 1	O TOTAL A MINIMUM OF 124	To be eligibl	e to student teach, Sociology Education students must have a D in their major and an overall g.p a. of 2.75. Students should

consult the teacher education program coordinator (see list on p. 176) to obtain the student teaching application and other information concerning student teaching policies.

CREDITS TO TOTAL A MINIMUM OF 124

REQUIREMENTS FOR A MINOR IN SOCIOLOGY

The minor in sociology requires SOCI 201 plus 15 credits in sociology, with at least 9 credits at or above the 300-level. SOCI 301 or 312 is required or an equivalent course in another social science discipline, such as PSYC 309, 405, ECON 422, 426, STAT 205, POSC 302, 434 or 435.

CRIMINAL JUSTICE

The Criminal Justice major program is structured around a core of criminal justice courses on such topics as law enforcement, the judicial process, juvenile justice, corrections, and the criminal law. The Criminal Justice curriculum includes courses in political science, psychology, and at least one foreign language, as well as in sociology.

Students may become criminal justice majors in one of two ways. First, any incoming freshman or transfer student may choose criminal justice as a major. These students are expected to demonstrate both the ability and the commitment to perform well in all of their course work. Those who do not 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 elect to fulfill requirements for two majors such as criminal justice and English (for a career in journalism), criminal justice and chemistry (for a career in forensic science), criminal justice and political science (for a career in court administration), criminal justice and psychology (for a career in corrections), or criminal justice and sociology (for a career in related fields).

DEGREE: BACHELOR OF ARTS MAJOR: CRIMINAL JUSTICE

MAJUK: C	KIMINAL JUSTICE	
CURRICULUM	A CR	EDITS
See page 7	78 for University and College requirements.	
MAJOR RE	EQUIREMENTS	
CRJU 110 CRJU 201 CRJU 202 CRJU 203 Criminal Justin	Introduction to Criminal Justice Problems of Law Enforcement Problems of Criminal Judiciary Problems of Corrections ice courses at the 300 or 400-level	3
SOCI 201 SOCI 301 POSC 105 PSYC 201	Introduction to Sociology Introduction of Sociological Research The American Political System General Psychology	3
PSYC 301 PSYC 303 PSYC 325 PSYC 334	Illowing four courses: Personality Introduction to Social Psychology Child Psychology Abnormal Psychology	
One of the fol POSC 402 POSC 405 POSC 406	Illowing three courses: Civil Liberties I Constitutional Law of the United States Civil Liberties II	. 3
ELECTIVE	S	

After required courses are completed sufficient elective credits must be

CREDITS TO TOTAL A MINIMUM OF 124

taken to meet the minimum credit requirement for the degree

STATISTICS

(See Mathematical Sciences)

THEATRE

The B.A in Theatre Production is designed for those students who are interested in learning about the production areas of the theatre, i.e., Costume Production, Stage Management and Technical Production, and who desire the opportunity to explore these production areas through the prescribed course work and laboratory experiences of a major. Students' practical experiences in the production areas described above will include participating in the production of plays of the Professional Theatre Training Program (a graduate-level conservatory).

The Theatre Department also offers a theatre minor designed to deepen the student's appreciation of the theatre as a liberal art. The courses are designed to give the student a foundation in the viewing of theatre, as well as the art and craft of the theatre.

The Theatre Department also provides the University with a variety of general education courses in theatre designed to expand appreciation for, and future participation in, theatre Students interested in performance opportunities should contact one of the amateur theatre groups on campus: E-52, Harrington Theatre Arts, Bacchus Players, or Black Student Theatre

Telephone: (302) 831-2201 http://www.udel.edu/theatre/

DEGREE: BACHELOR OF ARTS MAJOR: THEATRE PRODUCTION

CURRICULUM CREE		DITS
See page 7	78 for University and College requirements.	
MAJOR RI	EQUIREMENTS	
THEA 102 THEA 104 THEA 200 THEA 202 THEA 203 THEA 407	Introduction to Performance Introduction to Theatre Introduction to Theatre Production Introduction to Theatre Design Introduction to Costuming for the Stage Theatre Practicum for Majors	3 3
THEA 300 THEA 302 THEA 305	Fundamentals of Stage Lighting	. 6
ENGL 208 ENGL 324	Illowing: Introduction to Drama Shakespeare courses as approved by advisor	6
to meet the mi the major may	ES d courses are completed, sufficient elective credits must be taken inimum credit requirement for the degree. Additional credits in y be taken, not to exceed a total of 45 credits in the major. TO TOTAL A MINIMUM OF	24

REQUIREMENTS FOR MINOR IN THEATRE THEA 104 Introduction to Theatre

THEA 104	Introduction to Theatre
THEA 226	Fundamentals of Acting
Theatre Electives at the 200-level	
Theatre Electi	ves at the 300-level 6
TOTAL CR	EDITS 18

WOMEN'S STUDIES

The Women's Studies Interdisciplinary Program is designed to foster in undergraduate students a knowledge of the rich heritage, challenges, and concerns of women. The program offers a B.A.

degree in Women's Studies, with an Honors Degree option and a minor in Women's Studies. In addition to being a unique field of study with its own philosophies, methodologies, and materials, both the major and the minor in Women's Studies provide vehicles for reexamining the traditional scholarly disciplines in order to identify and correct misinformation and unexamined assumptions about "women's place" in human history. In the process, Women's Studies challenges disciplinary boundaries, encourages research on women within existing disciplines, and requires an understanding of the interplay among gender, culture, race, sexual orientation and class in human experience

This program offers introductory core courses, upper-division courses, seminars, and colloquia. An internship is also available that provides students an opportunity to integrate what they have learned in the classroom with the practical competencies that can only be gained from actual experience. Both the courses and the internship introduce and analyze areas of scholarship and knowledge that have largely been excluded from conventional disciplines

Interdepartmental majors and double majors are also options No minimum grade point average is required to begin, but students must not be on probation at the time.

Telephone: (302) 831-8474

http://www.udel.edu/WomensStudies/index.html

DEGREE: BACHELOR OF ARTS

MAJOR: WOMEN'S STUDIES CURRICULUM **CREDITS** See page 78 for University and College requirements. MAJOR REQUIREMENTS **WOMS 201** Introduction to Women's Studies WOMS/PHIL 216 Introduction to Feminist Theory Six credits in Women's Studies courses cross-listed with History and/or humanities departments chosen from the following list (only sections cross-listed with WOMS): WOMS 203/PHIL 202 Contemporary Contemporary Moral Problems Women and Religion WOMS/PHIL 210 WOMS/ENGL 214 Literature and Gender WOMS 242/ARTH 240 Women and Art WOMS/EDST/HIST 290 History of Women and Education Honors Short Course WOMS/ARSC 293 WOMS/HIST 300 Women in American History WOMS/ENGL 318 Studies in Film WOMS/FLLT 320 Varying Authors and Genres WOMS/FLLT 324 Topics: French Literature in Translation WOMS/FLLT 325 Topics: German Literature in Translation WOMS/FLLT 326 Topics: Hispanic Literature in Translation WOMS/FLLT 328 Topics: Japanese Literature in Translation WOMS/FLLT 330 Varying Authors, Themes, and Movements WOMS/PHIL 338 Topics in Philosophy and Gender WOMS/ENGL 353 Twentieth Century British Literature WOMS/ENGL 380 Women Writers WOMS/ENGL 381 Women in Literature WOMS/ENGL 382 Studies in Multicultural Literature in English WOMS/HIST 409 Varieties of Modern Feminism WOMS/ENGL 465 Studies in Literature Genres, Types, and Movements

Seminar in Modern European History

Six credits in Women's Studies courses or courses cross-listed with social science departments chosen from the following list:
WOMS/SOCI 206 Women and Work
WOMS/SOCI 211 Men, Conflict, and Social Change
WOMS/SOCI 213 Men and Women in American Society
WOMS/LING 222 Language and Gender
WOMS 240 Women and Violence
WOMS/POSC 323 Introduction to Women and Politics
WOMS/PSYC 333 Psychology of Women
WOMS/CRJU 350 Women and Criminal Justice
WOMS/ANTH 363 Women in Cross-cultural Perspective
WOMS/IFST 401 Foundations of Human Sexuality
WOMS/SOCI 407 Sociology of Sex and Gender
WOMS/POSC 413 Problems in American Government
WOMS/SOCI 415 Race, Class, and Gender
WOMS/IFST 430 Teaching Family Life
WOMS/POSC 436 Politics and Literature
WOMS/SOCI/GEOG/IFST 460 Women in International Development
WOMS/SOCI 607 Sociology of Sex and Gender
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/CSCC/PHIL 389 Topics: Women and Health Issues
Nine additional credits in courses in Women's Studies or cross-listed
with Women's Studies. These may include, but are not limited to,
courses listed under Women's Studies Humanities, Social Sciences,
and Science-Related Courses, which have not been used to satisfy
those requirements.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

HONORS BACHELOR OF ARTS: WOMEN'S STUDIES

The recipient must complete:

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

The Honors credits required in the major must be in courses in Women's Studies or courses cross-listed with Women's Studies.

REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES

A minimum of 18 credit hours is required, which must include the following: **CREDITS**

WOMS 201 Introduction to Women's Studies Two courses in WOMS or cross-listed with WOMS at or above the 300-level Three elective courses in WOMS or cross-listed with WOMS

Note: No more than 9 credits may be taken in any one department. No more than 6 credits in WOMS experimental courses (x67-numbered) may be counted toward the 18-credit requirement

A minimum grade of C- is required in each course.

WOMS/HIST 475

WOMS/ENGL 480