COLLEGE OF ARTS AND SCIENCE

- **DEPARTMENTS**
  - **Anthropology**
  - **Art**
  - **Art Conservation**
  - **Art History**
  - **Biology**
  - **Chemistry and Biochemistry**
  - **Communication**
  - **Computer and Information Sciences**
  - **Economics**
  - **English**
  - **Foreign Languages and Literatures**
  - **Geography**
  - **Geology**
  - **History**
  - **Linguistics**
  - **Mathematical Sciences**
  - **Military Science**
  - **Music**
  - **Philosophy**
  - **Physical Therapy**
  - **Physics and Astronomy**
  - **Political Science and International Relations**
  - **Psychology**
  - **Sociology and Criminal Justice**
  - **Theatre**
- **PROGRAMS**
  - **A&S Teacher Education**
  - **Black American Studies**
  - **Comparative Literature**
  - **Jewish Studies**
  - **Latin American Studies**
  - **Liberal Arts/Engineering**
  - **Medical Humanities**
  - **University Honors Program**
  - **Women's 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.

Students enrolled in the college may choose among a number of degree programs and options designed to permit undergraduates as much flexibility as possible 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 include in their selections 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 arts and humanities deal with the development and refinement of systems of value, aesthetic appreciation, a comprehensive world view, and increased skill in communication, both verbal and nonverbal. Courses in the grouping Culture and Institutions Through Time provide an understanding of the impact of history upon the way we live and think, dealing with a wide variety of social, technological, literary, artistic, scientific and political subject matter from a historical perspective. Through the behavioral and social sciences, students should acquire knowledge of facts and concepts relating to social and political organization and patterns of interaction among individuals and groups; awareness of the practical, moral and ethical issues in society; and an understanding of psychological development and the determinants of individual behavior.

In an increasingly complex, technological society, an educated person must have some knowledge of the natural sciences and competency to deal with mathematical and quantitative concepts.

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

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

BACHELOR OF ARTS

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

CORE CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing** ..... 3 [1]
ENGL 110 will be taken by all students as freshmen, except by students who have otherwise demonstrated the skills taught in that course. A score of 650 on the College Board Achievement Test in English Composition will be a satisfactory demonstration of basic writing skills. ENGL 110 must be completed by the time a student has earned 60 credits. Students who transfer into the College of Arts and Science with 45 credits or more must complete this requirement within two semesters.

MULTICULTURAL COURSE # ..... 3 [1-4]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content. (For a list of approved courses, see page 21.)

BACHELOR OF ARTS

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ..... 3 [3,4]
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Mathematics:

MATH 114 or MATH 170 College Mathematics and Statistics ..... 3 [1]
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115 or MATH 171 Pre-Calculus 3
(designed for students who intend to continue the study of mathematics)
or
Successful completion of any mathematics course at or above the 200-level except MATH 251 or MATH 252.
or
Successful performance on a proficiency test in mathematics administered by the Department of Mathematical Sciences through the College of Arts and Science Advisement Center.

The math 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: ..... 0-12 [1-4]
Completion of the intermediate-level course (107 or 112 or 214) in a given foreign language (ancient or modern). Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination.

BREADTH REQUIREMENTS†

GROUP A ..... 12 [1-4]
Analysis and appreciation of the creative arts and humanities
Twelve credits of courses representing at least two departments or appropriate instructional units.

GROUP B ..... 12 [1-4]
The study of culture and institutions over time.
Twelve credits of courses representing at least two departments or appropriate instructional units.

GROUP C ..... 12 [1-4]
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 [1-4]
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 both toward the major requirements and a breadth requirement, 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 70-73.

COURSES APPROVED FOR SECOND WRITING REQUIREMENT

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

Anthropology (ANTH)

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

Art History (ARTH)

ARTH 213 Art of the Northern Renaissance
ARTH 250 Rulers' Images: Augustus to Washington
ARTH 301 Research and Methodology in Art History
ARTH 302 Prints and Society
ARTH 310 The Role of the Artist in Society
ARTH 402 Undergraduate Seminar: History of Art
ARTH 405 Seminar in Greek and Roman Art
ARTH 406 Seminar in Medieval Art
ARTH 408 Seminar in Northern Renaissance Art
ARTH 413 Seminar in Italian Renaissance Art
ARTH 417 Seminar in Northern Baroque Art
ARTH 423 Seminar in Twentieth Century Art
ARTH 429 Seminar in Modern Architecture
ARTH 431 Seminar in American Architecture
ARTH 435 Seminar in American Art

Arts and Science (ARSC)

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

Biology (BISC)

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

Black American Studies (BAMS)

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

Center for Science and Culture (CSCC)

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

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†The only exception for total number of credits in breadth requirements for a Bachelor of Arts degree is for the Bachelor of Arts in Mathematics Education. See page 107 for these requirements.

Chemistry (CHEM)

CHEM 610 History of Chemistry

Communication (COMM)

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

Comparative Literature (CMLT)

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

Criminal Justice (CRJU)

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

English (ENGL)

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

Foreign Languages and Literatures (FLLT)

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

Geography (GEOG)

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

Geology (GEOL)

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

History (HIST)

HIST 130 Survey of the History of the Near East from the Rise of Islam to 1500 CE
HIST 131 History of the Islamic Near East: 1500 to the Present
HIST 250 Roots of Contemporary Culture
HIST 300 Women in American History (cross-listed with WOMS 300)
HIST 301 The Worker in American Life
HIST 302 The World in Our Time (cross-listed with WOMS 302)
HIST 303 American Intellectual History
HIST 304 American Intellectual History
HIST 307 The U.S. in the Early National Period
HIST 309 U.S. Business and Political Economy
HIST 313 Early Twentieth-Century America
HIST 314 Twentieth-Century America
HIST 318 Colonial America
HIST 319 Revolutionary America
HIST 323 The Old South
HIST 328 American Industrial Society: 1815 to Present
HIST 330 Peasants and Revolution in Africa
HIST 334 History of Mexico
HIST 335 History of Colonial Latin America
HIST 341 Ancient Rome
HIST 344 Renaissance Europe
HIST 345 Europe in the Reformation Era: 1517 to 1648
HIST 346 Age of Louis XIV
HIST 347 The French Revolution and Napoleon
HIST 352 Contemporary European Society
HIST 355 Early Modern Intellectual History
HIST 356 Modern European Intellectual History
HIST 359 Soviet Russia: 1917 to 1990
HIST 361 European Business History: 1850 to Present
HIST 363 Modern Germany: 1770 to 1919
HIST 364 Germany in 20th Century: 1914 to Present
HIST 368 Modern China: 1600-1920s
HIST 369 China Since 1900
HIST 373 Modern Ireland: 1534 to Present
HIST 385 History of Biological Ideas (cross-listed with CSCC 385)
HIST 392 History of Modern Japan
HIST 377 Radicalism and Revolution: Islamic Movements in the Modern Middle East
HIST 378 Nationalism in the Modern Middle East
HIST 397 History of South Africa
HIST 409 Varieties of Modern Feminism (cross-listed with WOMS 409)
HIST 411 Seminar in American History (cross-listed with CSCC 411 and WOMS 411)
HIST 430 Twentieth-Century Latin American Revolutions
HIST 440 Africa Under Colonial Rule
HIST 459 United States Urban History
HIST 471 Studies in Medieval History (cross-listed with WOMS 472)
HIST 473 Studies in Early Modern European History (cross-listed with WOMS 473)
HIST 474 Studies in English History
HIST 475 Seminar in Modern European History
HIST 479 Studies in Asian History

Music (MUSC)

MUSC 311 Music History: 400 through 1600
MUSC 312 Music History: 1600 through 1827
MUSC 313 Music History: 1825 to the Present
MUSC 345 History of Theatre: American Musical Theatre (cross-listed with THEA 345)

Philosophy (PHIL)

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

Political Science (PLSC)

POSC 334 Liberalism and Conservatism
POSC 380 Introduction to Law
POSC 408 International Organizations
POSC 433 African Politics
POSC 463 Political Thoughts II
POSC 465 Human Rights and World Politics
POSC 465 Theories of International Relations

Psychology (PSYC)

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

Sociology (SOCI)

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

Theatre (THEA)

THEA 341 Theatre/Drama: Classic/Medieval (cross-listed with CMLT 341)
THEA 342 Theatre/Drama: Renaissance to 1700 (cross-listed with CMLT 342)
THEA 343 Theatre/Drama: 1700 to 1900 (cross-listed with CMLT 343)
THEA 344 Theatre/Drama: 1900 to Present (cross-listed with CMLT 344)
THEA 345 History of Theatre: American Musical Theatre (cross-listed with MUSC 345)
THEA 346 History of Theatre: The American Theatre
THEA 410 Fundamentals of Dramaturgy

University (UNIV)

UNIV 490 Honors Tutorial: Humanities
UNIV 491 Honors Tutorial: Natural/Social Science

Women's Studies (WOMS)

WOMS 300 Women in American History (cross-listed with HIST 300)
WOMS 302 The World in Our Time (cross-listed with HIST 302)
WOMS 409 Varieties of Modern Feminism (cross-listed with HIST 409)
WOMS 411 Seminar in American History (cross-listed with CSCC 411 and HIST 411)
WOMS 415 Race, Class and Gender (cross-listed with BAMS 415 and SOCI 415)
WOMS 416 The American Family 1608 to 1900 (cross-listed with HIST 416)

WOMS 472 Studies in Medieval History (cross-listed with HIST 471)
WOMS 473 Studies in Early Modern European History (cross-listed with HIST 473)
WOMS 480 Seminar (cross-listed with CMLT 480 and ENGL 480)

COURSES APPROVED FOR BREADTH REQUIREMENTS

GROUP A

Anthropology (ANTH)

ANTH 205 Anthropology and Human Nature
ANTH 227 American Culture
ANTH 231 Personality and Culture
ANTH 251 Introduction to the Ethnic Arts
ANTH 338 Arts and Crafts of Native South America
ANTH 360 Humanities Colloquium

Art (ART)

ART 315 Issues in Contemporary Art

Art History (ARTH)

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

Center for Science and Culture (CSCC)

CSCC 241 Ethical Issues in Health Care (cross listed with PHIL 241)
CSCC 245 Ethical Issues in Scientific Research (cross-listed with PHIL 245)
CSCC 246 Philosophical Perspectives of Medicine (cross-listed with PHIL 246)
CSCC 368 Literature and Science (cross-listed with ENGL 368)
CSCC 369 Literature and Medicine (cross-listed with ENGL 369)
CSCC 444 Medical Ethics (cross-listed with PHIL 444)

Comparative Literature (CMLT)

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

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 JWST 380 and WOMS 380)

Foreign Languages and Literatures (FLLT)

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

Geography (GEOG)

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

German (GRMN)

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

Jewish Studies (JWST)

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

Linguistics (LING)

LING 301 Dictionaries

Music (MUSC)

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

Philosophy (PHIL)

PHIL 100 Philosophies of Life (cross-listed with WOMS 100)
PHIL 101 Great Western Philosophers
PHIL 102 Introduction to Philosophy
PHIL 201 Social and Political Philosophy
PHIL 202 Contemporary Moral Problems (cross-listed with WOMS 203)
PHIL 204 World Religions
PHIL 210 Women and Religion (cross-listed with WOMS 210)
PHIL 216 Introduction to Feminist Theory (cross-listed with WOMS 216)
PHIL 241 Ethical Issues in Health Care (cross-listed with CSCC 241)
PHIL 244 Philosophy of Art
PHIL 245 Ethical Issues in Scientific Research (cross-listed with CSCC 245)
PHIL 246 Philosophical Perspectives of Medicine (cross-listed with CSCC 246)
PHIL 317 American Philosophy
PHIL 444 Medical Ethics (cross-listed with CSCC 444)

Political Science (POSC)

POSC 285 Currents in Political Theory
POSC 333 Communism, Fascism, and Democracy

Theatre (THEA)

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

University (UNIV)

UNIV 490 Honors Tutorial: Humanities

Women's Studies (WOMS)

WOMS 100 Philosophies of Life (cross-listed with PHIL 100)
WOMS 203 Contemporary Moral Problems (cross-listed with PHIL 202)
WOMS 204 Gender and Knowledge
WOMS 205 Women in the Arts and Humanities
WOMS 208 Introduction to Drama (cross-listed with CMLT 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)
WOMS 324 French Literature in Translation (cross-listed with FLLT 324)
WOMS 325 German Literature in Translation (cross-listed with FLLT 325)
WOMS 326 Hispanic Literature in Translation (cross-listed with FLLT 326)
WOMS 328 Topics: Japanese Literature in Translation (cross-listed with FLLT 328)
WOMS 380 Women Writers (cross-listed with ENGL 380 and JWST 380)

GROUP B

Anthropology (ANTH)

ANTH 101 Introduction to Social and Cultural Anthropology
ANTH 105 Introduction to Historical Archaeology
ANTH 228 Peoples and Cultures of the Southwest
ANTH 260 Sociocultural History of Africa
ANTH 261 Peoples and Cultures of the Middle East
ANTH 265 High Civilizations of the Americas
ANTH 278 Historic Cultures of the Mid-Atlantic Region (cross-listed with HIST 278)
ANTH 322 The City in American Culture (cross-listed with HIST 322)
ANTH 323 Prehistory of South America
ANTH 327 Peoples of the Caribbean
ANTH 375 Peoples and Cultures of Modern Latin America

Art History (ARTH)

ARTH 153 Introduction to Art History I
ARTH 154 Introduction to Art History II
ARTH 155 Asian Art
ARTH 207 Origins of Art
ARTH 208 Greek and Roman Art
ARTH 209 Early Medieval Art 200-1000 A.D.
ARTH 210 Later Medieval Art 1000-1400 A.D.
ARTH 217 Early Renaissance Art
ARTH 218 High Renaissance and Mannerist Art
ARTH 220 Italian Renaissance Architecture
ARTH 222 Baroque Art
ARTH 223 Baroque and Rococo Architecture and Urbanism
ARTH 225 Eighteenth Century Art
ARTH 227 Modern Art I
ARTH 228 Modern Art II
ARTH 230 American Art: 1607-1865
ARTH 231 American Art: 1865-Present
ARTH 233 Art of China
ARTH 234 Art of Japan
ARTH 235 Art of India
ARTH 236 The Arts of Islam
ARTH 250 Rulers' Images from Augustus to George Washington
ARTH 302 Prints and Society
ARTH 304 Northern Baroque Art
ARTH 305 Italian Baroque: Metaphor and Marvel
ARTH 308 Modern Architecture I: 1750-1900
ARTH 309 Modern Architecture II: 20th Century
ARTH 310 Role of the Artist in Society
ARTH 318 History of Photography

Black American Studies (BAMS)

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

Center for Science and Culture (CSCC)

CSCC 330 Varying Authors, Themes and Movements (cross-listed with CMLT 330, FLLT 330 and WOMS 330)
CSCC 382 History of Western Medicine (cross-listed with HIST 382)

Comparative Literature (CMLT)

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

Economics (ECON)

ECON 315 Economic History of Colonial America
ECON 316 Economic History of the U.S
ECON 318 Economic History of France

English (ENGL)

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

Foreign Languages and Literatures (FLLT)

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

French (FREN)

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

Geography (GEOG)

GEOG 225 Historical Geography of the United States

German (GRMN)

GRMN 311 Introduction to German Literature I (to be taught in German)
GRMN 312 Introduction to German Literature II (to be taught in German)
GRMN 325 German Civilization and Culture (to be taught in German)

History (HIST)

HIST 101 Western Civilization to 1648
HIST 102 Western Civilization: 1648 to Present
HIST 103 World History to 1648
HIST 104 World History: 1648 to Present
HIST 130 Islamic Near East: 600-1500
HIST 131 Islamic Near East: 1500 to Present
HIST 134 History of Africa (cross-listed with BAMS 134)
HIST 135 Introduction to Latin American History
HIST 137 East Asian Civilization: China
HIST 138 East Asian Civilization: Japan
HIST 205 United States History
HIST 206 United States History
HIST 210 War and Society
HIST 220 The American Civil Rights Movement
HIST 270 History of Modern Asia
HIST 278 Historic Cultures of the Mid-Atlantic Region (cross-listed with ANTH 278)
HIST 280 Science and Civilization
HIST 300 Women in American History (cross-listed with WOMS 300)
HIST 303 American Intellectual History
HIST 304 American Intellectual History
HIST 306 History of American Foreign Policy
HIST 315 Postwar America: The United States Since 1945
HIST 318 Colonial America
HIST 319 Revolutionary America
HIST 322 The City in American Culture (cross-listed with ANTH 322)
HIST 325 History of Black America to the Civil War (cross-listed with BAMS 304)
HIST 326 History of Black America Since the Civil War (cross-listed with BAMS 306)
HIST 330 Peasants and Revolution in Africa
HIST 340 Ancient Near East and Greece
HIST 341 Ancient Rome
HIST 344 Renaissance Europe
HIST 345 Europe in the Reformation Era: 1517 to 1648
HIST 348 History of Spain: 1479 to Present
HIST 349 Hispanic Societies: 1492 to Present
HIST 355 Early Modern Intellectual History
HIST 356 Modern European Intellectual History
HIST 359 Soviet Russia: 1917 to 1990
HIST 363 Modern Germany: 1770 to 1919
HIST 364 Germany in 20th Century: 1914 to Present
HIST 368 Modern China: 1600-1920s
HIST 369 China Since 1900
HIST 374 History of England to 1715
HIST 375 History of England: 1715 to Present
HIST 377 Radicalism and Revolution: Islamic Movements in the Modern Middle East
HIST 378 Nationalism in the Modern Middle East
HIST 382 History of Western Medicine (cross-listed with CSCC 382)
HIST 383 History of Science and Medicine I
HIST 384 History of Science and Medicine II
HIST 387 Technology in Western Civilization I
HIST 388 Technology in Western Civilization II
HIST 392 History of Modern Japan
HIST 393 History of Modern Vietnam
HIST 397 History of South Africa
HIST 474 Studies in English History

Italian (ITAL)

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

Music (MUSC)

MUSC 205 Music of the Non-Western World
MUSC 206 Music of China, Korea and Japan
MUSC 207 History of Jazz
MUSC 311 Music History: to 1600
MUSC 312 Music History: 1600 through 1827
MUSC 313 Music History: 1825 to the Present
MUSC 345 History of Theatre: American Musical Theatre (cross-listed with THEA 345)

Philosophy (PHIL)

PHIL 301 Ancient Philosophy
PHIL 302 Medieval Philosophy
PHIL 303 Modern Philosophy
PHIL 309 Indian Religion and Philosophy
PHIL 310 Chinese Religion and Philosophy

Political Science (POSC)

POSC 311 Politics of Developing Nations
POSC 387 American Political Thought

Russian (RUSS)

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

Spanish (SPAN)

SPAN 301 Survey of Spanish Literature (to be taught in Spanish)
SPAN 302 Survey of Spanish Literature (to be taught in Spanish)
SPAN 303 Survey of Spanish-American Literature (to be taught in Spanish)
SPAN 304 Survey of Spanish-American Literature (to be taught in Spanish)
SPAN 325 Spanish Civilization and Culture (to be taught in Spanish)
SPAN 326 Latin American Civilization and Culture (to be taught in Spanish)

Theatre (THEA)

THEA 341 Theatre/Drama: Classic/Medieval (cross-listed with CMLT 341)
THEA 342 Theatre/Drama: Renaissance to 1700 (cross-listed with CMLT 342)
THEA 343 Theatre/Drama: 1700 to 1900 (cross-listed with CMLT 343)
THEA 344 Theatre/Drama: 1900 to Present (cross-listed with CMLT 344)
THEA 345 History of Theatre: American Musical Theatre (cross-listed with MUSC 345)
THEA 346 History of Theatre: The American Theatre

Women's Studies (WOMS)

WOMS 300 Women in American History (cross-listed with HIST 300)
WOMS 330 Varying Authors, Themes, and Movements (cross-listed with CMLT 330, CSCC 330 and FLLT 330)

GROUP C

Anthropology (ANTH)

ANTH 103 Introduction to Prehistoric Archaeology (duplicate credit with ANTH 104 in Group D)
ANTH 222 Technology and Culture
ANTH 225 Peasant Societies
ANTH 229 Indians of North America
ANTH 230 Peoples of the World
ANTH 255 Applied Anthropology
ANTH 259 Hunting Societies
ANTH 320 Prehistory of North America
ANTH 337 South American Indians
ANTH 370 Culture of Food Production and Economic Development
ANTH 377 Ecological Anthropology
ANTH 380 Peoples and Cultures of Mexico and Central America

Arts and Science (ARSC)

ARSC 127 Shaping of the Modern World

Black American Studies (BAMS)

BAMS 110 Introduction to Black American Studies
BAMS 204 Urban Communities (cross-listed with SOCI 204)
BAMS 205 Contemporary Afro-American Issues
BAMS 212 Afro-Caribbean Life and Culture
BAMS 361 Race, Power, and Social Conflict (cross-listed with SOCI 361)

Center for Science and Culture (CSCC)

CSCC 243 Society, Politics, and Health Care (cross-listed with SOCI 243)
CSCC 271 Comparative Medical Systems
CSCC 310 Sociology of Health Care (cross-listed with SOCI 310)
CSCC 311 Hospitals (cross-listed with SOCI 311)

Communication (COMM)

COMM 200 Introduction to Human Communication Systems
COMM 245 Mass Communication and Culture
COMM 251 The Development of Verbal Communication
COMM 330 Communication and Social Behavior

Criminal Justice (CRJU)

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

Economics (ECON)

ECON 100 Economic Issues and Policies
ECON 151 Introductory Microeconomics: Prices and Markets
ECON 152 Introductory Macroeconomics: National Economy
ECON 305 Comparative Economic Systems
ECON 306 Economic Theory of Politics (cross-listed with POSC 306)
ECON 311 Economics of Developing Countries
ECON 332 Economics of Government Spending and Taxation
ECON 340 International Economics
ECON 348 Industrial Policies of France
ECON 360 Government Regulation of Business
ECON 381 Economics of Human Resources
ECON 393 Urban Economics

English (ENGL)

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

Geography (GEOG)

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

History (HIST)

HIST 327 American Labor before Industrialization

Linguistics (LING)

LING 101 Introduction to Linguistics I
LING 102 Language, Mind and Society
LING 203 Languages of the World
LING 222 Language and Gender (cross-listed with WOMS 222)
LING 265 Studies in Language
LING 270 Introduction to Cognitive Science
LING 390 English Linguistics (cross-listed with ENGL 390)

Political Science (POSC)

POSC 105 The American Political System
POSC 106 Introduction to Political Science: Issues
POSC 220 Introduction to Public Policy
POSC 240 Introduction to International Relations
POSC 270 Comparative Politics
POSC 306 Public Choice (cross-listed with ECON 306)

Psychology (PSYC)

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

Sociology (SOCI)

SOCI 201 Introduction to Sociology
SOCI 202 Social Deviance
SOCI 203 The Individual and Society
SOCI 204 Urban Communities (cross-listed with BAMS 204)
SOCI 206 Women and Work (cross-listed with WOMS 206)
SOCI 209 Social Problems
SOCI 210 Population Problems
SOCI 211 Men, Conflict, and Social Change (cross-listed with WOMS 211)
SOCI 243 Society, Politics, and Health Care (cross-listed with CSCC 243)
SOCI 308 The Family
SOCI 310 Sociology of Health Care (cross-listed with CSCC 310)
SOCI 311 Hospitals (cross-listed with CSCC 311)
SOCI 322 Crowds, Cults, and Revolutions
SOCI 345 Sociology of Law (cross-listed with CRJU 345)
SOCI 361 Race, Power, and Social Conflict (cross-listed with BAMS 361)
SOCI 362 Sociology of Mass Communication

Women's Studies (WOMS)

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

GROUP D

Anthropology (ANTH)

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

ANTH 104 Introduction to Archaeology and Biological Anthropology (duplicate credit with ANTH 102, and with ANTH 103 in Group C)
ANTH 202 Human Evolution and the Fossil Record

Biology (BISC)

BISC 103 General Biology (Both BISC 103 and BISC 207 cannot be used to fulfill Group D. Duplicate credit if taken after BISC 207.)
BISC 113 General Biology Laboratory
BISC 104 Neurobiology of the Brain
BISC 105 Human Heredity and Development
BISC 115 Human Heredity and Development Laboratory
BISC 106 Elementary Human Physiology
BISC 116 Elementary Human Physiology Laboratory
BISC 107 Elementary Evolutionary Ecology
BISC 117 Elementary Evolutionary Ecology Laboratory
BISC 108 Molecular Bases of Human Disease
BISC 110 Viruses, Genes, and Cancer
BISC 152 Biology of Human Sexuality
BISC 171 Microbiology in Modern Society
BISC 195 Biological Evolution
BISC 207 Introductory Biology I (Both BISC 103 and BISC 207 cannot be used to fulfill Group D.)
BISC 208 Introductory Biology II

Chemistry (CHEM)

CHEM 100 Chemistry and the Human Environment
CHEM 101 General Chemistry (duplicate credit with CHEM 103, 105, 111)
CHEM 102 General Chemistry (duplicate credit with CHEM 104, 112)
CHEM 103 General Chemistry (duplicate credit with CHEM 101, 105, 111)
CHEM 104 General Chemistry (duplicate credit with CHEM 102, 112)
CHEM 105 General Chemistry (duplicate credit with CHEM 101, 103, 111)
CHEM 111 General Chemistry (duplicate credit with CHEM 101, 103, 105)
CHEM 112 General Chemistry (duplicate credit with CHEM 102, 104)

Computer and Information Sciences (CISC)

CISC 101 Computers and Information Systems
CISC 105 General Computer Science
CISC 106 General Computer Science for Engineers

Entomology (ENTO)

ENTO 201 Wildlife Conservation and Ecology
ENTO 205 Elements of Entomology
ENTO 305 Entomology Laboratory

Geography (GEOG)

GEOG 101 Physical Geography
GEOG 152 Climate and Life
GEOG 206 Physical Geography: Topography—Soils
GEOG 220 Meteorology
GEOG 250 Computer Methods in Geography

Geology (GEOL)

GEOL 105 General Geology (duplicate credit with GEOL 107)
GEOL 106 General Geology (duplicate credit with GEOL 108)
GEOL 107 General Geology I (duplicate credit with GEOL 105)
GEOL 110 Evolution and Extinction (duplicate credit with GEOL 144)
GEOL 144 Evolution and Earth History (duplicate credit with GEOL 110)
GEOL 233 The Ice Ages and Human Chronology
GEOL 234 Earth Resources and Ecology
GEOL 243 Rocks and Minerals
GEOL 245 Volcanoes and Earthquakes

Linguistics (LING)

LING 253 Laboratory Phonetics

Mathematical Sciences (MATH)

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

Nutrition and Dietetics (NTDT)

NTDT 200 Nutrition Concepts

Philosophy (PHIL)

PHIL 205 Logic (PHIL 351 alternate. Duplicate credit if taken after PHIL 351)
PHIL 207 Inductive Logic and Scientific Method
PHIL 211 Basic Decision Theory
PHIL 351 Advanced Logic (alternate to PHIL 205)

Physics (PHYS)

PHYS 109 Planets, Asteroids, and Impacts
PHYS 133 Introduction to Astronomy
PHYS 140 Great Concepts of Physics
PHYS 141 Light, Lasers, Cameras, Perception
PHYS 143 Energy, Technology, and Society
PHYS 144 Concepts of the Universe (duplicate credit if taken after PHYS 133 or 134)
PHYS 145 Quasars, Black Holes, and the Universe
PHYS 146 Quarks, Gluons, and the Big Bang
PHYS 201 Introductory Physics I (duplicate credit with PHYS 101, 104, 207, and SCEN 101)
PHYS 202 Introductory Physics II (duplicate credit with PHYS 102, 208)
PHYS 207 Fundamentals of Physics I (duplicate credit with PHYS 101, 104, 201, and SCEN 101)
PHYS 208 Fundamentals of Physics II (duplicate credit with PHYS 102, 202)

Plant Science (PLSC)

PLSC 101 Botany I

Psychology (PSYC)

PSYC 314 Brain and Behavior

Science (SCEN)

SCEN 101 Physical Science (duplicate credit with PHYS 101, 104, 201, and 207)
SCEN 102 Physical Science

Statistics (STAT)

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

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.

MAJOR OPTIONS

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

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

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 Polit-

ical 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 or International Relations. Students majoring in International Relations would be required to take 51 credits distributed among appropriate departments. Thirty of the 51 credits must be earned with at least a *C-* grade, and a C average is required for the total of the 51 credits.

GENERAL INFORMATION (All Degrees)

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.

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

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

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

Minors. In addition to the major, students may also elect a minor concentration. 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 the minor. (See the list of minors in the front of this catalog.)

BACHELOR OF SCIENCE

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

BACHELOR OF ARTS IN LIBERAL STUDIES

An option that offers a great deal of flexibility is the Bachelor of Arts in Liberal Studies (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 that 60 credits be at the 300-level or higher. The most significant difference from the more conventional degree, however, is that, instead of a major, students pursue a sequence of courses of their choice that are consistent with their stated educational goals.

Admission into Bachelor of Arts in Liberal Studies is determined by the College Faculty Senate Committee on Special Academic Programs which reviews student proposals and approves them or makes suggestions on improving or strengthening them. To be eligible to apply to the program, a student must have a cumulative grade index of 2.25 and must have completed *no more* than 75 credit hours at the time of the application. The committee looks for proposals that are cohesive and realistic, designed to afford the student knowledge in some broad, interdisciplinary field or focused more narrowly and in greater depth on one theme and, in general, involve course combinations that would not be feasible within one of the other degree options. A minimum of 39 credit hours must be related to the main theme of the 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 will expect the applications to carry the signature of at least two faculty members including the candidate's adviser. Proposals should be submitted to the Dean's Office by October 15 or by March 15.

DEAN'S SCHOLAR PROGRAM

Each year some undergraduate colleges consider upon application a number of highly motivated students who have clear educational goals and the ability to achieve those goals. These students may be appointed Dean's Scholars. These students are freed of all college general education requirements so that they can build their entire program with faculty advisers. 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.

ASSOCIATE DEGREES

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

Associate Degrees from the College of Arts and Science. The nonterminal degrees of Associate in Arts and Associate in Science may be awarded upon application before completion of 75 earned credit hours. Specific requirements follow:

ASSOCIATE IN ARTS REQUIREMENTS

If any of the course requirements are satisfied through proficiency tests or exams, elective credits must be substituted to make up 60 hours.

CURRICULUM	CREDITS
UNIVERSITY REQUIREMENTS	
Writing	
ENGL 110**	3
or	
Exemption	0
Multicultural Course	3

**Minimum grade of C- required.

SKILL REQUIREMENTS

Mathematics

MATH 114 3
or
MATH 115 3
or
Successful completion of any mathematics course above the 100-level (except MATH 251 and MATH 252) 3-4
or
Proficiency Test 0

Foreign Language

Elementary Level 4
or
Proficiency Test 0

Breadth Requirements

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

Group A. Creative Arts and Humanities 9
Group B. Culture and Institutions through Time 9
Group C. Humans and Their Environment 9
Group D. Natural Phenomena 10
At least one course in Group D must be a laboratory science.

ELECTIVES

Elective Courses [1,2,3]

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

CURRICULUM	CREDITS

UNIVERSITY REQUIREMENTS

Writing

ENGL 110** 3
or
Exemption 0
Multicultural Course 3

SKILL REQUIREMENTS

Mathematics

MATH 221-222 6
or
MATH 241-242 8

Foreign Language [4]

Elementary Level 4
or
Proficiency Test 0

Breadth Requirements

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

Group A. Creative Arts and Humanities 9
Group B. Culture and Institutions through Time 9
Group C. Humans and Their Environment 9
Group D. Natural Phenomena 12
At least one course in Group D must be a laboratory science.

ELECTIVES

Elective Courses [1,2,3]

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

CREDITS TO TOTAL A MINIMUM OF 60

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

TEACHER EDUCATION PROGRAMS

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

Each degree program in teacher education requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The appropriate teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

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

ADVISEMENT

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

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.

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

**Minimum grade of C- required.

[1] Course credit may be counted only once toward a degree. A course repeated to improve a passing grade already received may not be counted a second time toward the minimum total credit hours required.

[2] Courses taken to fulfill specific group, or language proficiency requirements must be on a regular grade, not pass/fail, basis. Students may opt to take one free elective course per semester P/F, but the total number of credits taken on a pass/fail basis may not exceed 12 in the associate degree program, excluding courses that are graded pass/fail only.

[3] Courses numbered below 100 (e.g., MATH 010, Intermediate Algebra) do not count toward a degree.

[4] For the Associate in Science degree, students must have completed the elementary level course of a foreign language if there is a language requirement for the corresponding Bachelor of Science degree.

tests as juniors. Early academic advisement is essential to ensure that the preprofessional curriculum requirements are met. The Health Sciences Advisory and Evaluation Committee (Room 117A, Wolf Hall) coordinates advisory services for all students preparing for admission to health-related professional schools.

MEDICAL SCHOLARS PROGRAM

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

FIELD STUDIES OPTION

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

THE DEPARTMENTS

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.

ANTHROPOLOGY

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: ANTHROPOLOGY

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
Social and Cultural Anthropology courses		12 [1-4]
Biological Anthropology courses		6 [1-4]
Archaeological Anthropology courses		6 [1-4]
ANTH 486	Tutorial in Social and Cultural Anthropology	3 [1-4]
ANTH 487	Tutorial in Archaeology	3 [1-4]
or		
ANTH 488	Tutorial in Physical Anthropology	3
Anthropology course		3 [1-4]

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

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: ANTHROPOLOGY EDUCATION

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
Social and Cultural Anthropology courses		12 [1-4]
Biological Anthropology courses		6 [1-4]
Archaeological Anthropology courses		6 [1-4]
ANTH 486	Tutorial in Social and Cultural Anthropology	3 [1-4]
ANTH 487	Tutorial in Archaeology	3 [1-4]
or		
ANTH 488	Tutorial in Physical Anthropology	3
Anthropology course		3 [1-4]

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

Within the College		
Economics course		3 [1-4]
Geography course		3 [1-4]
History course		3 [1-4]
Political Science course		3 [1-4]
Sociology course		3 [1-4]
PSYC 201	General Psychology	3 [1-4]
Six additional credits selected from the departments listed above		6 [1-4]
Professional Studies		
EDST 201	Education in a Multicultural Society	3 [1-4]
EDST 304	Educational Psychology – Social Aspects	3 [1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3 [1-4]
HIST 491	Planning a Course of Instruction	3 [4]

*Superior figures indicate year or years in which the course is normally taken, i e, [1]freshman year, [2]sophomore year, etc.

HIST 493	Seminar: Problems in Teaching History and Social Sciences	3[4]
EDST 420	Reading in the Content Areas	1[1-4]
EDDV 400	Student Teaching	9[4]

The Anthropology Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

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

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

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

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

INTERDEPARTMENTAL MAJORS

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

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

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

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

REQUIREMENTS FOR THE MINOR IN ANTHROPOLOGY

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

ART

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

The Department of Art offers two undergraduate degrees: Bachelor of Arts (B.A.) and Bachelor of Fine Arts (B.F.A. in Fine Arts and Visual Communications). The department offers two graduate degrees: Master of Fine Arts (M.F.A.) and Master of Arts (M.A.).

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 and a minimum of 12 credits of Foundations courses. A limited number of students are admitted to the program.

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

DEGREE: BACHELOR OF ARTS
MAJOR: ART

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department‡		
Art Foundations		
ART 110	Foundation Drawing I	3[1]
ART 111	Foundation 2D Design	3[1]
ART 112	Foundation Drawing II	3[1]
ART 113	Foundation 3D Design	3[1]
ART 114	Foundation Colloquium⌀	0[1]
Area of Concentration		
Art Concentration		12[2-4]
Twelve credits beyond those that might have been taken as part of foundations requirements. At least three credits must be at the 400-level. (ceramics, fibers, illustration, metals, painting, photography, printmaking, sculpture)		
Art Electives		9[2-4]
Courses from department disciplines outside of art concentration.		
ART 315	Issues in Contemporary Art†	3[3-4]
Within the College		
Art History courses†		6[1-4]
ELECTIVES		
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.		

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

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

CURRICULUM		CREDITS*
UNIVERSITY REQUIREMENTS		
ENGL 110	Critical Reading and Writing**	3[1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #		3[1-4]
COLLEGE REQUIREMENTS		
Skill Requirements		
Writing:*		3[3,4]
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course		

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
‡No more than forty-five credits of studio art courses may be counted toward the degree. All courses in the major must be passed with a grade of C- or better.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
⌀Must be taken both fall and spring of freshman year.

must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Mathematics:

MATH 114 College Mathematics and Statistics ..... 3[1]
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115 Pre-Calculus 3
(designed for students who intend to continue the study of mathematics)
or

One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
or
Successful performance on the college proficiency exam.

Breadth Requirements † (See page 70)

Group A ..... 9[1-4]
Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas.

Group B ..... 9[1-4]
The study of culture and institutions over time. Nine credits representing at least two areas.

Group C ..... 9[1-4]
Empirically based study of human beings and their environment. Nine credits representing at least two areas.

Group D ..... 7[1-4]
The study of natural phenomena through experiment and analysis. A minimum of seven credits representing at least two areas including a minimum of one course with an associated laboratory

MAJOR REQUIREMENTS

Within the Department‡‡

Art Foundations

ART 110 Foundation Drawing I ..... 3[1]
ART 111 Foundation 2D Design ..... 3[1]
ART 112 Foundation Drawing II ..... 3[1]
ART 113 Foundation 3D Design ..... 3[1]
ART 114 Foundation Colloquium[ø] ..... 0[1]

Area of Concentration

Art Concentration ..... 21[2-4]
Taken from a specified sequence of courses for each discipline in the department. At least nine credits must be at the 400-level (advertising design, applied photography, ceramics, fibers, graphic design, illustration, metals, painting, photography, printmaking, sculpture)

Art Studies ..... 21[2-4]
Taken from a list of specified courses established for each discipline

Art Electives ..... 9[2-4]
ART 315 Issues in Contemporary Art† ..... 3[3-4]
ART 416 Professional Practices ..... 3[4]
ART 417 BFA Exhibition ..... 0[4]

Within the College

Art History courses† ..... 9[1-4]

ELECTIVES

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

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

REQUIREMENTS FOR A MINOR IN ART

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

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

ART HISTORY

Art history is concerned with the historical development of ideas and institutions as expressed in the visual arts throughout the ages. The Department offers courses in nearly every area of art history, but its faculty has special expertise in the various areas of American and European painting, photography, sculpture, and architecture from antiquity to the present. The faculty of the Department also collaborate with the research and vocational objectives of the Winterthur Program in Early American Culture and the Department of Art Conservation. Visits to various museums from New York to Washington are scheduled in connection with many art history courses. The University Gallery houses a collection of original works of art and offers internship, research, and exhibition opportunities for students. Advanced students may draw upon the departmental slide and photograph collections, including the Wayne Andrews photographic archive of American architecture and the Index of American Sculpture.

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 majors have gone on to positions in businesses that are art related, education, museums, art galleries, historic preservation, fine arts and slide librarianship, state and national arts and humanities agencies, art book and magazine publishing, art journalism, and various posts connected with architecture and the decorative arts. Additional study on the graduate level prepares students for professional careers in the fields of college teaching, museums, historic preservation, librarianship, and research.

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. See the section on Interdisciplinary Programs in this catalog. Students interested in museum work should consider taking museum studies courses offered at the University.

DEGREE: BACHELOR OF ARTS
MAJOR: ART HISTORY

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

ARTH 153 Introduction to Art History I ..... 3[1]
ARTH 154 Introduction to Art History II ..... 3[1]

Fifteen credits at the 200-level or above, distributed as follows: ..... 15[2-4]
a Ancient ..... 3[2-4]
b Medieval (including Northern Renaissance) ..... 3[2-4]
c Renaissance ..... 3[2-4]
d Baroque or 18th Century ..... 3[2-4]
e Modern ..... 3[2-4]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
‡‡NOTE: 69 credit hours minimum Art Department courses; 80 credit hours maximum Art Department courses; all grades in art must be C- or better
[ø]Must be taken both fall and spring of freshman year.

ARTH 301	Research and Methodology in Art History	3[3]
Art History Seminar at the 300 or 400-level		3[3-4]
Art History courses above 100-level		6[1-4]

Within the College

Fifteen credits of related work as follows:		15[1-4]
ENGL 202	Biblical and Classical Literature	3[1-4]
Any adviser-approved 200- or 300-level History course		3[1-4]

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

ELECTIVES

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

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

REQUIREMENTS FOR THE MINOR IN ART HISTORY

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

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

ASTRONOMY

(See Physics and Astronomy)

BIOLOGY

The undergraduate programs in biology are designed to meet intellectual needs as well as to prepare students for subsequent professional or vocational training. Men and women interested in various fields of biology and related activities will find challenging and flexible undergraduate programs which provide broad scope and some necessary specialization appropriate to further study. Many interests call for graduate study or specialized professional training beyond four years of college work; these include human and veterinary medicine, dentistry, biological and medical research, genetics, marine biology, physiology, and molecular biology.

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 117A Wolf Hall.

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

The Department of Biology 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.

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

BIOLOGICAL SCIENCES

During the freshman year, biological science majors for the B.A. degree ordinarily take courses in biology, chemistry, English, foreign language, and mathematics. The minimal mathematics requirement is one semester of calculus. Students should consider their objectives and abilities and consult their advisers to select wisely from the variety of advanced courses and electives available.

Many opportunities exist for research experience with a faculty member. In addition, an opportunity for teaching experience exists. Up to 4 credits of research or independent study (BISC 266, 366, 466, or 666) may be counted toward the 33 credits required for the major in Biological Sciences or Biological Sciences Education. Some 600-level courses in other departments may be counted toward the major.

A grade of C- or better must be obtained in all biology courses that are used to satisfy the requirements for the degree. Biology courses at the 100-level may not be counted toward the degree. The following sequence of courses is recommended for the biological sciences major as well as premedical, prephysical therapy, predental, and preveterinary students.

DEGREE: BACHELOR OF ARTS
MAJOR: BIOLOGICAL SCIENCES

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
BISC 207	Introductory Biology I	4[1]
BISC 208	Introductory Biology II	4[1]
BISC 303	Genetic and Evolutionary Biology	4[3]
At least two of the following courses:		
BISC 301	Molecular Biology of the Cell	4[2,3]
BISC 302	General Ecology	3[2,3]
BISC 306	General Physiology	4[2,3]
Biology electives at the 300-level or above (must include one 600-level course other than Independent Study) for a total of at least 33 credits in biology		13-14[2-4]
Within the College		
CHEM 103	General Chemistry	4[1]
CHEM 104	General Chemistry	4[1]
CHEM 321	Organic Chemistry	4[2]
CHEM 322	Organic Chemistry	4[2]
or		
CHEM 213	Elementary Organic Chemistry	4
CHEM 214	Elementary Biochemistry	3
CHEM 216	Elementary Biochemistry Laboratory	1
PHYS 201	Introductory Physics I	4[3]
PHYS 202	Introductory Physics II	4[3]
MATH 221	Calculus I	3[2]

ELECTIVES

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

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

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc

BIOTECHNOLOGY

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

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

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

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

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

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

CURRICULUM		CREDITS*
UNIVERSITY REQUIREMENTS		
ENGL 110	Critical Reading and Writing**	3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #		3 [1-4]
COLLEGE REQUIREMENTS		
Skill Requirements		
Writing:*		3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Foreign Language: 0-12 [1-4]

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

Breadth Requirements† (See page 70) 21 [1-4]

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

BISC 207	Introductory Biology I	4 [1]
BISC 208	Introductory Biology II	4 [1]
BISC 371	Introduction to Microbiology	4 [2]
BISC 301	Molecular Biology of the Cell	4 [2]
BISC 303	Genetic and Evolutionary Biology	4 [3]
BISC 305	Cell Physiology	4 [3,4]
BISC 604	Recombinant DNA Laboratory	4 [4]
BISC 653	Recent Advances in Molecular Biology	2 [3,4]

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

I

BISC 492	Human and Mammalian Cytogenetics	3 [3,4]
BISC 493	Mammalian Cytogenetics Laboratory	3 [3,4]

II

BISC 471/BISC 671	Immunobiology	3 [3,4]
BISC 601	Immunochemistry	3 [3,4]

III

BISC 619	Macromolecules Laboratory	4 [3,4]

Two courses selected from the following:

BISC 499/BISC 699	Computers in Biological Research	4 [3,4]
BISC 602	Molecular Biology of Animal Cells	3 [3,4]
BISC 608	Genetic Toxicology	3 [3,4]
BISC 617	Laboratory Techniques for Electron Microscopy	3 [3,4]
BISC 650	Bacterial Physiology	3 [3,4]
BISC 654	Biochemical Genetics	3 [3,4]
BISC 658	Developmental Genetics	3 [3,4]
BISC 667	Plant Cell Biology	3 [3,4]
BISC 673	Topics in Immunogenetics	3 [3,4]
BISC 679	Virology	3 [3,4]
BISC 693	Human Genetics	3 [3,4]
BISC 667	Gene Control: Antibody Genes, HIV-1	3 [3,4]

Within the College

CHEM 103	General Chemistry	4 [1]
CHEM 104	General Chemistry	4 [1]
CHEM 321	Organic Chemistry	4 [2]
CHEM 322	Organic Chemistry	4 [2]
CHEM 527	Introductory Biochemistry	3 [3,4]
or		
CHEM 641 and CHEM 642	Biochemistry	6
PHYS 201	Introductory Physics I	4 [3]
PHYS 202	Introductory Physics II	4 [3]
MATH 221	Calculus I	3 [1]

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.

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

DEGREE: BACHELOR OF ARTS
MAJOR: BIOLOGICAL SCIENCES EDUCATION

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

CURRICULUM		CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

BISC 207	Introductory Biology I	4 [1-4]
BISC 208	Introductory Biology II	4 [1-4]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.

BISC 301	Molecular Biology of the Cell	4 [1-4]
BISC 303	Genetic and Evolutionary Biology	4 [1-4]
BISC 302	General Ecology	3 [1-4]
or		
BISC 306	General Physiology	4 [1-4]
Biology electives at the 300-level or above (must include one 600-level course other than Independent Study for a total of at least 33 credits in biology)		13-14 [1-4]

Within the College

CHEM 103	General Chemistry	4 [1-4]
CHEM 104	General Chemistry	4 [1-4]
CHEM 213	Elementary Organic Chemistry	4 [1-4]
or		
CHEM 321	Organic Chemistry	4
CHEM 214	Elementary Biochemistry	3 [1-4]
and		
CHEM 216	Elementary Biochemistry Laboratory	1 [1-4]
PHYS 201	Introductory Physics I	4 [1-4]
PHYS 202	Introductory Physics II	4 [1-4]
MATH 221	Calculus I	3 [1-4]
GEOL 105	General Geology	4 [1-4]
Geology Elective		3-4 [1-4]

Professional Studies

EDST 201	Education in a Multicultural Society	3 [1-4]
EDST 304	Educational Psychology – Social Aspects	3 [1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3 [1-4]
EDST 420	Reading in the Content Areas	1 [1-4]
SCEN 491	Teaching Science in Secondary Schools	4 [4]
EDDV 400	Student Teaching	9 [4]

The Biological Sciences Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

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

REQUIREMENTS FOR A MINOR IN BIOLOGY

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

Since most of the BISC courses above apply to the major in biological sciences, as well as to the minor, students will retain these credits if they switch to the major during the course of their degree program, so long as a grade of C- has been obtained in these courses.

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, biopsychology, neuropsychology, physiology, pharmacology and anatomy and for positions in pharmaceutical and biotechnology companies. It also provides preparation for professional programs in medicine, physical therapy, dentistry 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 and Dean's Office.

MEDICAL EDUCATION PROGRAMS

The University participates in a cooperative medical education program with the Medical Center of Delaware and the Jefferson Medical College of Philadelphia, sponsored by the Delaware Institute for Medical Education and Research. Under the terms of this program, up to twenty students who are Delaware residents will be 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 Director of the Department of Biology.

The University of Delaware also participates with Jefferson Medical College in the Medical Scholars Program which permits selected students to begin their medical education while undergraduates at the University (see page 133).

COOPERATIVE EDUCATION PROGRAM

Through the cooperation of area businesses, industry, and government agencies, students may integrate their academic study with practical work experience. Especially beneficial to students wishing to join the work force after obtaining their bachelor's degree, participation in the Co-op Program offers students an opportunity to explore abilities and career interests before graduation, to complement their formal education with opportunities for learning not available in the regular classroom, to apply theoretical academic knowledge to real work situations, and to obtain practical work experience prior to entering the job market, giving them a "jump" on the competition.

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.

CHEMISTRY AND BIOCHEMISTRY

Chemists are concerned with matter and its properties: composition, structure, and reactions. The methods and techniques of chemistry are broadly applicable in many areas of science and engineering. Familiarity with the many chemicals in common use is becoming more and more necessary for the nonchemists who are concerned with public policy. Because of the central position of chemistry in the sciences, it covers areas from the fundamental to the applied and allows strong interactions with areas as diverse as physics, mathematics, biology, geology, computer science, business, economics, chemical engineering, criminal justice, art history, medicine, and marine studies.

Because of the large number of elective credits in the chemistry and biochemistry curricula, it is possible to arrange a course of study that will include work in another area of interest in order to broaden the student's education or more precisely fit the student for the specific career in view. Students in the B.A. programs must earn a minimum of *C-* in each course counted toward the major.

The department has extensive equipment and space for research, and advanced undergraduates are encouraged to undertake research with graduate students under the supervision of the faculty. Undergraduate research often leads to publication, and seniors frequently present the results of their research at the annual Intercollegiate Student Chemists Convention. The department has a vigorous graduate teaching and research program and an active seminar program with many notable visiting speakers. Seminars are generally open to undergraduates.

DEGREE: BACHELOR OF ARTS
MAJOR: CHEMISTRY

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

CHEM 103	General Chemistry	4[1]
CHEM 104	General Chemistry	4[1]
CHEM 220	Quantitative Analysis	3[2]
CHEM 221	Quantitative Analysis Laboratory	1[2]
or		
CHEM 111	General Chemistry	3
CHEM 112	General Chemistry	3
CHEM 119	Quantitative Chemistry I	2
CHEM 120	Quantitative Chemistry II	3
CHEM 321	Organic Chemistry	4[2]
CHEM 322	Organic Chemistry	4[2]
or		
CHEM 331	Organic Chemistry	3
CHEM 333	Organic Chemistry Laboratory I	2
CHEM 332	Organic Chemistry	3
CHEM 334	Organic Chemistry Laboratory II	2
CHEM 437	Instrumental Methods	3[3]
CHEM 438	Instrumental Methods Laboratory	1[3]
CHEM 418	Introductory Physical Chemistry	3[3]
CHEM 419	Introductory Physical Chemistry	3[3]
CHEM 445	Physical Chemistry Laboratory	1[3]
or		
CHEM 443	Physical Chemistry	3
CHEM 444	Physical Chemistry	3
CHEM 445	Physical Chemistry Laboratory	1

One of the following eight courses:

CHEM 457	Inorganic Chemistry	3[3,4]
CHEM 527	Introductory Biochemistry	3[3,4]
CHEM 610	History of Chemistry	3[4]
CHEM 620	Analytical Spectroscopy	3[4]
CHEM 622	Electroanalytical Chemistry	3[4]
CHEM 623	Chemometrics	3[4]
CHEM 633	Advanced Organic Chemistry: Physical	3[4]
CHEM 634	Advanced Organic Chemistry: Synthesis and Reactivity	3[4]

Within the College

Related Work

Mathematics

MATH 221	Calculus I	3[1-4]
or		
MATH 241	Analytic Geometry and Calculus A (strongly preferred)	4

Physics

PHYS 201	Introductory Physics I	4[1-4]
or		
PHYS 207	Fundamentals of Physics I	4
PHYS 202	Introductory Physics II	4[1-4]
or		
PHYS 208	Fundamentals of Physics II	4

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: CHEMISTRY EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

(30 credits)

CHEM 111	General Chemistry	3[1]
CHEM 112	General Chemistry	3[1]
CHEM 119	Quantitative Chemistry I	2[1]
CHEM 120	Quantitative Chemistry II	3[1]
or		
CHEM 103	General Chemistry	4[1]
CHEM 104	General Chemistry	4[1]
CHEM 220	Quantitative Analysis	3[2,3]
CHEM 221	Quantitative Analysis Laboratory	1[2,3]
CHEM 213	Elementary Organic Chemistry	4[2,3]
or		
CHEM 321	Organic Chemistry	4
CHEM 322	Organic Chemistry	4
or		
CHEM 331	Organic Chemistry	3
CHEM 332	Organic Chemistry	3
CHEM 333	Organic Chemistry Laboratory I	2
CHEM 437	Instrumental Methods	3[3,4]
CHEM 438	Instrumental Methods Laboratory	1[3,4]
CHEM 418	Introductory Physical Chemistry	3[3,4]
CHEM 445	Physical Chemistry Laboratory	1[3,4]
or		
CHEM 443	Physical Chemistry	3
CHEM 445	Physical Chemistry Laboratory	1
CHEM 214	Elementary Biochemistry	3[2-4]
CHEM 216	Elementary Biochemistry Laboratory	1[2-4]
Chemistry courses selected with consent of adviser		0-3[1-4]

Within the College

Related Work

BISC 207	Introductory Biology I	4[1-4]
GEOL 105	General Geology	4[1-4]
MATH 221	Calculus I	3[1-4]
MATH 222	Calculus II	3[1-4]
or		
MATH 241	Analytic Geometry and Calculus A	4
MATH 242	Analytic Geometry and Calculus B	4
PHYS 201	Introductory Physics I	4[1-4]
or		
PHYS 207	Fundamentals of Physics I	4
PHYS 202	Introductory Physics II	4[1-4]
or		
PHYS 208	Fundamentals of Physics II	4

Professional Studies

(23 credits)

EDST 201	Education in a Multicultural Society	3[1-4]
EDST 304	Educational Psychology – Social Aspects	3[1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3[2-4]
SCEN 491	Teaching Science in Secondary Schools	4[4]
EDST 420	Reading in the Content Areas	1[1-4]
EDDV 400	Student Teaching	9[4]

The Chemistry Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF SCIENCE
MAJOR: CHEMISTRY

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3[1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #		3[1-4]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc

**Minimum grade of C- required.

#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ..... 3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Foreign Language: ..... 0-12 [1-4]

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

Breadth Requirements† (See page 70)

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. ..... 21 [1-4]

Group A

Understanding and appreciation of the creative arts and humanities.

Group B

The study of culture and institutions over time.

Group C

Empirically based study of human beings and their environment.

MAJOR REQUIREMENTS

Within the Department

CHEM 111	General Chemistry	3 [1]
CHEM 119	Quantitative Chemistry I	2 [1]
CHEM 112	General Chemistry	3 [1]
CHEM 120	Quantitative Chemistry II	3 [1]
CHEM 331	Organic Chemistry	3 [2]
CHEM 333	Organic Chemistry Laboratory I	2 [2]
CHEM 332	Organic Chemistry	3 [2]
CHEM 334	Organic Chemistry Majors Laboratory II	2 [2]
CHEM 443	Physical Chemistry	3 [3]
CHEM 445	Physical Chemistry Laboratory	1 [3]
CHEM 437	Instrumental Methods	3 [3]
CHEM 438	Instrumental Methods Laboratory	1 [3]
CHEM 527	Introductory Biochemistry	3 [3]
or		
CHEM 641	Biochemistry	3
CHEM 444	Physical Chemistry	3 [3]
CHEM 446	Physical Chemistry Laboratory	1 [3]
CHEM 457	Inorganic Chemistry	3 [3]
CHEM 458	Inorganic Chemistry Laboratory	1 [3]
CHEM 465	Seminar (two semesters)	2 [4]
Advanced Chemistry course at 600-level or higher		3 [3,4]
CHEM 468	Undergraduate Research (optional)	3 [3,4]

(Chemistry credits to total a minimum of 45)

Within the College

Related Work

MATH 241	Analytic Geometry and Calculus A	4 [1]
MATH 242	Analytic Geometry and Calculus B	4 [1]
MATH 243	Analytic Geometry and Calculus C	4 [2]
MATH 302	Ordinary Differential Equations I (Recommended)	3 [2]
PHYS 207	Fundamentals of Physics I	4
PHYS 208	Fundamentals of Physics II	4
or		
PHYS 201	Introductory Physics I	4 [1-4]
PHYS 202	Introductory Physics II	4 [1-4]

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 128

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

CURRICULUM — CREDITS*

MAJOR REQUIREMENTS

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

Concentration Requirements

Basic Environmentally Related Science

One of the following two-semester sequences:

BISC 207/208	Introductory Biology I/II	8
GEOG 152/220	Climate and Life/Meteorology	7
GEOL 106/107	General Geology	8

Advanced courses in Chemistry of the Environment

Two of the following three-credit courses:

BISC 302	General Ecology	3
CIEG 433	Hazardous Waste Management	3
CIEG 435	Industrial Wastes Management	3
CIEG 437/637	Water and Waste Water Quality	3
CIEG 632	Chemical Aspects of Environmental Engineering	3
CIEG 634	Physical Aspects of Environmental Engineering	3
CIEG 636	Biological Aspects of Environmental Engineering	3
GEOG 412	Physical Climatology	3
GEOG 420	Atmospheric Physics	3
GEOG 423	Atmospheric Dynamics	3
GEOL 421	Environmental and Applied Geology	3
MAST 646	Chemical Oceanography	3
MAST 647	Physical Chemistry of Seawater	3
MAST 681	Remote Sensing of Environment	3
PLSC 608	Soil Chemistry	3

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

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: BIOCHEMISTRY

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #		3 [1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ..... 3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Foreign Language: ..... 0-12 [1-4]

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

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.

***Breadth Requirements*†** (See page 70)

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. ..... 21 [1-4]

Group A

Understanding and appreciation of the creative arts and humanities.

Group B

The study of culture and institutions over time.

Group C

Empirically based study of human beings and their environment.

MAJOR REQUIREMENTS

Within the Department

CHEM 111	General Chemistry	3 [1F]
CHEM 112	General Chemistry	3 [1S]
CHEM 119	Quantitative Chemistry I	2 [1F]
CHEM 120	Quantitative Chemistry II	3 [1S]
CHEM 331	Organic Chemistry	3 [2F]
CHEM 333	Organic Chemistry Laboratory I	2 [2F]
CHEM 332	Organic Chemistry	3 [2S]
CHEM 334	Organic Chemistry Majors Laboratory II	2 [2S]
CHEM 342	Introduction to Biochemistry	3 [2S]
CHEM 310	Computers in Chemistry (Recommended)	3 [3]
CHEM 418	Introductory Physical Chemistry	3 [3F]
or		
CHEM 443	Physical Chemistry	3 [3F]
CHEM 437	Instrumental Methods	3 [3]
CHEM 438	Instrumental Methods	1 [3]
CHEM 641	Biochemistry	3 [3F]
CHEM 419	Introductory Physical Chemistry	3 [3S]
or		
CHEM 444	Physical Chemistry	3 [3S]
CHEM 445	Physical Chemistry Laboratory	1 [3S]
CHEM 642	Biochemistry	3 [3S]
Advanced Chemistry or Biochemistry course at 600-level		3 [4]
Advanced Biochemistry courses at 600-level		6 [4]
or		
Biology courses selected from the following:		6-8 [4]
BISC 301	Molecular Biology of the Cell (4)	
BISC 303	Genetic and Evolutionary Biology (4)	
BISC 601	Immunochemistry (4)	
BISC 604	Recombinant DNA Laboratory (4)	
BISC 654	Biochemical Genetics (3)	
BISC 679	Virology (3)	
BISC 698	Comparative Endocrinology (3)	
CHEM 465	Seminar(two semesters)	2 [4]
CHEM 468	Undergraduate Research	6 [4]
or		
Biology laboratory courses selected from the following:		8 [4]
BISC 303	Genetic and Evolutionary Biology (4)	
BISC 306	General Physiology (4)	
BISC 371	Introduction to Microbiology (4)	
BISC 601	Immunochemistry (4)	

(Chemistry credits to total a minimum of 46)

Within the College

Related Work

MATH 241	Analytic Geometry and Calculus A	4 [1F]
or		
MATH 221	Calculus I	3 [1F]
MATH 242	Analytic Geometry and Calculus B	4 [1S]
or		
MATH 222	Calculus II	3 [1S]
BISC 207	Introductory Biology I	4 [1S]
BISC 208	Introductory Biology II	4 [2F]
PHYS 201	Introductory Physics I	4 [2F]
PHYS 202	Introductory Physics II	4 [2S]

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 127

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

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

REQUIREMENTS FOR A MINOR IN CHEMISTRY

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

	Credits
CHEM 103, 104, (or 111,112,119)	8
Any three of the following:	
CHEM 220, 221 (or 437, 438)	4
CHEM 321 (or 331, 333)	4-5
CHEM 457, 458	4
CHEM 418, 445 (or 443, 445)	4
CHEM 527 or 641	3

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

COMMUNICATION

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

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

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

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

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

CURRICULUM	CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

NOTE: All 4XX communication courses may be limited to COMM majors.

COMM 245	Mass Communication and Culture‡	3 [1S]
COMM 256	Principles of Communication Theory‡	3 [1F]
COMM 301	Introduction to Communication Research Methods‡	3 [2S]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
‡Must be completed with a grade point average of 2.75 or better.

COMM 330	Communication and Social Behavior‡	3	2F
COMM 350	Public Speaking	3	3,4
COMM 361	Interpersonal Communication	3	3F
COMM 417	Communication and the Management of Conflict	3	3S
COMM 455	Symbolism in Organizations	3	4S
COMM 456	Communication in Organizations	3	4F
One additional 400-level COMM course, not COMM 466 or COMM 464, outside your concentration		3	3,4
Six to 15 COMM elective credits for a total of not less than 36 nor more than 45 COMM credits. These may be taken from the other concentrations or from the following:		6-15	3,4

Interpersonal/Organizational Communication Electives

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

Mass Communication Electives

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

COMM 325	Television Production	3
COMM 388	TV Production Practicum	3
COMM 418	Topics in Mass Communication	3
COMM 435	Advanced TV Production and Direction	3
COMM 454	Children and the Mass Media	3

Public Relations Electives

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

COMM 309	Introduction to Public Relations	3
COMM 311	Public Relations Communication Techniques	3
COMM 409	Public Relations Planning	3
COMM 413	Public Relations Program Design	3

General Electives

COMM x66	Independent Study/Special Problems (366/466)	1-6
COMM 464	Internship	1-6
COMM x67	Experimental Courses (367/467)	3

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

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

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

NOTE: All 4XX communication courses may be limited to COMM majors.

COMM 245	Mass Communication and Culture‡	3	1S
COMM 256	Principles of Communication Theory‡	3	1F
COMM 301	Introduction to Communication Research Methods‡	3	2S
COMM 330	Communication and Social Behavior‡	3	2F
COMM 350	Public Speaking	3	3,4
COMM 365	Legal Issues of the Mass Media	3	3S
COMM 370	Theories of Mass Communication	3	3S
COMM 424	Media Message Analysis	3	3S
COMM 450	Mass Communication Effects	3	4F
One additional 400-level COMM course, not COMM 466 or COMM 464, outside your concentration		3	3,4
Six to 15 COMM elective credits for a total of not less than 36 nor more than 45 COMM credits. These may be taken from the other concentrations or from the following:		6-15	3,4

Interpersonal/Organizational Communication Electives

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

Mass Communication Electives

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

COMM 325	Television Production	3
COMM 388	TV Production Practicum	3
COMM 418	Topics in Mass Communication	3
COMM 435	Advanced TV Production and Direction	3
COMM 454	Children and the Mass Media	3

Public Relations Electives

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

COMM 309	Introduction to Public Relations	3
COMM 311	Public Relations Communication Techniques	3
COMM 409	Public Relations Planning	3
COMM 413	Public Relations Program Design	3

General Electives

COMM x66	Independent Study/Special Problems (366/466)	1-6
COMM 464	Internship	1-6
COMM x67	Experimental Courses (367/467)	3

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

COMPUTER AND INFORMATION SCIENCES

With the aid of computers, it is possible to solve problems previously well beyond the reach of human capability at speeds that are equal to the urgency created by the modern world. Problems recently considered far too complex to be treated quantitatively are now solved routinely. These same computers, which are helping to solve the problems of science, technology, government, and business, are widely applied in information systems of service to everyone and in automation systems to further reduce the toil of humankind. Their potential for extending human brainpower is just beginning to be appreciated.

In recognition of the importance of these new concepts, techniques and technology, the Department of Computer and Information Sciences offers four-year undergraduate programs leading to either a Bachelor of Arts degree in computer science or a Bachelor of Science degree in computer science. The latest information on these programs is available in the department office in 103 Smith Hall.

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

DEGREE: BACHELOR OF ARTS
MAJOR: COMPUTER AND INFORMATION SCIENCES

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

CISC 181	Introduction to Computer Science	3	1
or			
CISC 105, CISC 120	General Computer Science, and	3	1
	Object Oriented Programming in C++	2	1
then			
CISC 220	Data Structures	3	1

*Superior figures indicate year or years in which the course is normally taken, i.e., 1freshman year, 2sophomore year, etc.
‡Must be completed with a grade point average of 2.75 or better

CISC 260	Machine Organization and Microcomputers	3[2]
CISC 280	Programming Paradigms	3[2]
Eighteen credits of Computer Science numbered 301 or above, approved by the student's adviser		18

Within the College

MATH 210	Discrete Mathematics I	3[1]
MATH 241	Analytic Geometry and Calculus A	4[1]
MATH 315	Discrete Mathematics II	3[2]

ELECTIVES

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

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: COMPUTER AND INFORMATION SCIENCES

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3[1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #		3[1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ** 3[3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Breadth Requirements† (See page 70)

Six credits from each of the following groups 18[1-4]

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

CISC 181	Introduction to Computer Science	3[1]
or		
CISC 105, CISC 120	General Computer Science, and	3[1]
	Object Oriented Programming in C++	2[1]
then		
CISC 220	Data Structures	3[1]
CISC 260	Machine Organization and Microcomputers	3[2]
CISC 280	Programming Paradigms	3[2]
CISC 310	Logic and Programming	3[3]
CISC 320	Algorithms and Advanced Programming	3[3]
CISC 360	Computer Architecture	3[3]
CISC 361	Operating Systems	3[3]
CISC 471	Compiler Design	3[4]

CISC Electives 9[1-4]

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

CISC Concentration 12[1-4]

Twelve credits in advanced courses in an adviser-approved concentration. Students are encouraged to explore how other subject areas impact and are impacted by computer science. An approval form signed by the CISC adviser is required.

Within the College

Related Work

MATH 210	Discrete Mathematics I	3[1]
MATH 241	Analytic Geometry and Calculus A	4[1]
MATH 315	Discrete Mathematics II	3[2]
STAT 205	Statistical Methods	4[2]
ENGL 312	Written Communications in Business	3[3]
or		
ENGL 410	Technical Writing	3[3]
CSCC 355	Computers, Ethics and Society	3[3]

One of the following sequences of laboratory science courses:

PHYS 207	Fundamentals of Physics I	4[1-3]
PHYS 208	Fundamentals of Physics II	4[1-3]
or		
CHEM 103	General Chemistry	4[1-3]
CHEM 104	General Chemistry	4[1-3]
or		
BISC 207	Introductory Biology I	4[1-3]
BISC 208	Introductory Biology II	4[1-3]
or		
GEOL 106	General Geology	4[1-3]
GEOL 107	General Geology	4[1-3]

Within the University

ELEG 202	Introduction to Digital Systems	4[2]
or		
ELEG 210	Introduction to Combinational Logic	2[2]
and		
ELEG 211	Introduction to Sequential Circuits	2[2]

ELECTIVES

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

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

REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE

A minor in computer science consists of a total of 15 to 17 credits including CISC 181 (or CISC 105 and CISC 120), CISC 220, and CISC 280. Six additional credits at the 200-level or above should be chosen with the adviser's approval.

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.

The policy problems encountered in this study are varied, fascinating, and important for social welfare. The issues include (1) the conflicts between efficiency in production and equity in the distribution of income; (2) the causes of, and solutions to, unemployment and inflation; (3) the prospects for growth and development in the world's poorer nations; (4) the contrasts between managed and market economics; (5) efficient and fair solutions for pollution problems; (6) the implications of monopoly and other private constraints on economic efficiency; and (7) the advantages of, and difficulties with, international trade.

The program leading to a Bachelor of Arts degree with a major in economics for a student enrolled in the College of Arts and Science has 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.

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.

A minor program in economics is also available.

Students majoring in economics will be advised by the faculty of the Department of Economics within the College of Business and Economics.

DEGREE: BACHELOR OF ARTS
MAJOR: ECONOMICS

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department†

ECON 151	Introductory Microeconomics: Prices and Markets**	3 [1]
ECON 152	Introductory Macroeconomics: National Economy**	3 [1]
ECON 300	Intermediate Microeconomic Theory**	3 [2]
or		
ECON 301	Quantitative Microeconomic Theory**	3
ECON 302	Banking and Monetary Policy**	3 [2-4]
ECON 303	Intermediate Macroeconomic Theory**	3 [2,3]
Five Economics courses, at least two of which are at or above the 400-level**		15 [1-4]

Within the College†

STAT 201	Introduction to Statistics I	3 [1-4]
or		
STAT 370	Introduction to Statistical Analysis I	3
STAT 202	Introduction to Statistics II	3 [1-4]
or		
STAT 371	Introduction to Statistical Analysis II	3
Nine credits chosen from any 300-level or higher course in Accounting, Anthropology, Business Administration, Computer Science, Finance, Geography, History, Mathematics, Philosophy, Political Science, Psychology, Sociology and Statistics. Also acceptable are ACCT 207,208 and 261, any 200-level Mathematics course and any BUEC courses.		9 [1-4]

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

Credit will not be allowed for both courses of any of the following sets of corresponding courses: ECON 311 and EC 411; ECON 332 and ECON 433; ECON 344 and ECON 444; ECON 340 and ECON 443; ECON 360 and ECON 461 or ECON 463; and ECON 381 and ECON 483.

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

DEGREE: BACHELOR OF ARTS
MAJOR: ECONOMICS EDUCATION

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

ECON 151	Introductory Microeconomics: Prices and Markets**	3 [1]
ECON 152	Introductory Macroeconomics: National Economy**	3 [1]
ECON 300	Intermediate Microeconomic Theory**	3 [2]
or		
ECON 301	Quantitative Microeconomic Theory**	3
ECON 302	Banking and Monetary Policy**	3 [2-4]
ECON 303	Intermediate Macroeconomic Theory**	3 [2,3]
Five Economics courses, at least two of which are at or above the 400-level**		15 [1-4]

Within the College†

STAT 201	Introduction to Statistics I	3 [1-4]
or		
STAT 370	Introduction to Statistical Analysis I	3
STAT 202	Introduction to Statistics II	3 [1-4]
or		
STAT 371	Introduction to Statistical Analysis II	3
PSYC 201	General Psychology	3 [1-4]
Fifteen credits in the following social sciences with at least three credits in each department: Anthropology, Geography, History, Political Science and International Relations, and Sociology		15 [1-4]

Professional Studies

EDST 201	Education in a Multicultural Society	3 [1-4]
EDST 304	Educational Psychology – Social Aspects	3 [1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3 [1-4]
HIST 491	Planning a Course of Instruction	3 [4]
HIST 493	Seminar: Problems in Teaching History and Social Sciences	3 [4]
EDST 420	Reading in the Content Areas	1 [1-4]
EDDV 400	Student Teaching	9 [4]

The Economics Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

CREDITS TO TOTAL A MINIMUM OF 124

ENGLISH

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

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

The following courses may not be counted toward the English major or minor: ENGL 200, 204, 210, 301, and 365. ENGL 307, 308, 309, 310, 407, and 409 may be counted only as part of the 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.

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation

DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Five of the following six courses:

ENGL 202	Biblical and Classical Literature	3 [1-4]
ENGL 205	British Literature I	3 [1-4]
ENGL 206	British Literature II	3 [1-4]
ENGL 300	Texts and Contexts	3
ENGL 324	Shakespeare	3 [2-4]
ENGL 340	American Literature to the Civil War	3 [1-4]
or		
ENGL 341	American Literature: Civil War to World War II	3 [2,3]

Twelve credits at the 300-level or above distributed as follows: 12 [1-4]

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

English courses at or above the 300-level	6 [1-4]
English courses at or above the 200-level	3 [1-4]

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

ELECTIVES

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

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

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Five of the following six courses:

ENGL 202	Biblical and Classical Literature	3 [1-4]
ENGL 205	British Literature I	3 [1-4]
ENGL 206	British Literature II	3 [1-4]
ENGL 300	Texts and Contexts	3
ENGL 324	Shakespeare	3 [2-4]
ENGL 340	American Literature to the Civil War	3 [2-4]
or		
ENGL 341	American Literature: Civil War to World War II	3 [2,3]

Nine credits at the 300-level or above distributed as follows: 9 [1-4]

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

One of the following three courses

ENGL 312	Written Communications in Business	3 [2-4]
ENGL 410	Technical Writing	3 [2-4]
ENGL 415	Writing for the Professions	3
ENGL 411	Rhetoric for Business and Technical Writers	3 [1-4]
ENGL 412	Business and Technical Publication	3 [2-4]
ENGL 414	Technical Editing	3 [2-4]
ENGL 464	Internship in Business/Technical Writing	3 [2-4]

Optional:

ENGL 413	Topics in Technical Writing or one other EBT course	3 [2-4]

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

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree. Most concentrators take a core of courses in a technical or business discipline such as Computer Science, Chemistry, Business Administration or Accounting.

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

DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH
CONCENTRATION: FILM

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Five of the following six courses:

ENGL 202	Biblical and Classical Literature	3 [1-4]
ENGL 205	British Literature I	3 [1-4]
ENGL 206	British Literature II	3 [1-4]
ENGL 300	Texts and Contexts	3
ENGL 324	Shakespeare	3 [1-4]
ENGL 340	American Literature to the Civil War	3 [1-4]
or		
ENGL 341	American Literature: Civil War to World War II	3 [2,3]

Nine credits at the 300-level or above distributed as follows: 9 [1-4]

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

Students concentrating in film must take the following film courses:

ENGL 217	Introduction to Film	3 [1-4]
ENGL 317	Film History	3 [1-4]
ENGL 318	Studies in Film (variable content, may be repeated once)	3 [1-4]
ENGL 417	Film Theory and Criticism	3 [1-4]

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

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH
CONCENTRATION: JOURNALISM

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Five of the following six courses:

ENGL 202	Biblical and Classical Literature	3 [1-4]
ENGL 205	British Literature I	3 [1-4]
ENGL 206	British Literature II	3 [1-4]
ENGL 300	Texts and Contexts	3
ENGL 324	Shakespeare	3 [1-4]
ENGL 340	American Literature to the Civil War	3 [1-4]
or		
ENGL 341	American Literature: Civil War to World War II	3 [2,3]

Nine credits at the 300-level or above distributed as follows: 9 [1-4]

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

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.

Prior to enrolling in the following course, ENGL 110 or equivalent must be completed with a grade of B or better.

ENGL 307	News Writing and Editing	3 [1-4]

At least nine credits chosen from among the following courses: 9 [1-4]

ENGL 308	Reporter's Practicum	3
ENGL 309	Feature and Magazine Writing	3
ENGL 310	Copy Editing and Layout	3
ENGL 407	Advanced Reporting	1-3
ENGL 409	Topics in Journalism	3

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

ENGL 466	Internship	1-6

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

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH EDUCATION

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department†

ENGL 202	Biblical and Classical Literature	3 [1-4]
ENGL 205	British Literature I	3 [1-4]
ENGL 206	British Literature II	3 [1-4]
ENGL 302	Advanced Composition	3 [1-4]
ENGL 324	Shakespeare	3 [1-4]
ENGL 340	American Literature to the Civil War	3 [1-4]
ENGL 341	American Literature: Civil War to World War II	3 [1-4]
ENGL 390	English Linguistics	3 [1-4]

Three English courses at the 300-level or above distributed as follows: 9 [1-4]

British literature before 1900	3
20th-century British, American or Comparative literature	3
Literary Theory and Criticism	3

All XEE majors must take at least one ENGL 480 seminar.

Within the College***

COMM 251, 255, 312, or 350 or THEA 102 or 226		3 [1-4]

One of the following four courses:

ENGL 494	History of the English Language	3
LING 491	Semantics I	3
LING 497	Sociolinguistics of English in the Inner City	3
LING 498	Teaching English as a Second Language	3

Professional Studies

EDST 201	Education in a Multicultural Society	3 [1-4]
EDST 304	Educational Psychology – Social Aspects	3 [1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3 [1-4]
ENGL 383	Teaching Composition in Secondary School	3 [4]
ENGL 384	Teaching English in Secondary School	3 [1-4]
ENGL 481	Seminar in Teaching English	3 [4]
EDDV 400	Student Teaching	9 [4]
EDDV 403	Adolescent Literature	3

The English Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH
CONCENTRATION: ETHNIC AND CULTURAL STUDIES

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Five of the following six courses:

ENGL 202	Biblical and Classical Literature	3 [1-4]
ENGL 205	British Literature I	3 [1-4]
ENGL 206	British Literature II	3 [1-4]
ENGL 300‡	Texts and Contexts	3
ENGL 324	Shakespeare	3 [2-4]
ENGL 340	American Literature to the Civil War	3 [2-4]
or		
ENGL 341	American Literature: Civil War to World War II	3 [2-4]

‡Concentrators in Ethnic and Cultural Studies must include ENGL 300 as one of the five courses chosen.

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

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

In addition to ENGL 300, students concentrating in Ethnic and Cultural Studies must take the following courses:

ENGL 379	Introduction to Ethnic and Cultural Studies	3
ENGL 382	Studies in Multicultural Literature (may be repeated for credit when topics differ)	3

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

All ECS 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

REQUIREMENTS FOR OTHER PROGRAMS IN ENGLISH

The English Department also offers a program leading to a minor in English. The course of study for the English minor includes ENGL 202, 205, 206, 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.

Eligible students may elect to pursue the Honors degree in English or the Degree with Distinction. Those taking the Honors degree must satisfy all the requirements established by the University Honors Program; in addition, they must meet requirements set by the English Department: a minimum of 12 credits in Honors courses in English, not including the thesis (one course must be an Honors Seminar, ENGL 480 Honors); and an Honor thesis.

FOREIGN LANGUAGES AND LITERATURES

Modern. Almost all spheres of human activity—from business to politics to humanistic studies—now have crucial international components. In order to be competitive in today's world, an educated person must understand other people's patterns of thought and action. The surest way to achieve this understanding is by learning how to speak other languages and by studying other cultures.

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
***Some breadth requirements are specified by the major.

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 the use of students and faculty.

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

Ancient. The program offers a liberal education in the fullest sense of 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, not only in Latin but in their own language as well, and in the process grapple with the universal ethical, social, and political problems and gain perspective, sensitivity, and insight. These are qualities that equip students for effective action in any profession.

The teaching of the classics will be the goal of some who select this major, whether they look to secondary education or to graduate school. Students who intend to enter the fields of law, theology, or medicine will find it appropriate, and it is a desirable choice as a major or a field of concentration for future writers, businesspersons, and public servants.

PLACEMENT AND DUPLICATE CREDIT

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

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

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

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

FOREIGN LANGUAGE EDUCATION

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

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

CURRICULUM		CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department of History

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

Within the Department of Foreign Languages and Literatures

Classics

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

French

Civilization: FREN 325 (French Civilization I), or FREN 326 (French Civilization II) or FREN 327 (French Civilization III)	3
Literature: FREN 301 (Introduction to French Literature: Prose) and FREN 302 (Introduction to French Literature: Poetry and Theatre)	6
400-level literature course	3
Two courses at the 200, 300, or 400-level	6

German

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

Russian

Civilization: RUSS 325 (Russian Civilization)	3^{3}
Literature: RUSS 310 (Introduction to Russian Literature I) and RUSS 312 (Introduction to Russian Literature II)	6^{3-4}
400-level literature course	3^{4}
Two courses at the 200, 300, or 400-level	6^{2-4}

Spanish**

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

ELECTIVES

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

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

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

CURRICULUM		CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS†

Within the Department of Political Science and International Relations

POSC 105	The American Political System (or other required intro courses)	3
POSC 240	Introduction to International Relations	3
POSC 270	Comparative Politics	3

*Superior figures indicate year or years in which the course is normally taken, i.e., ^{1}freshman year, ^{2}sophomore year, etc

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

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

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

Within the Department of Foreign Languages and Literatures

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

French

FREN 2xx, 3xx, 4xx‡ 6
FREN 3xx, 4xx 12
FREN 4xx (literature)‡‡ 3

German

GRMN 2xx, 3xx, 4xx‡ 6
GRMN 3xx, 4xx 12
GRMN 4xx (literature)‡‡ 3

Spanish

SPAN 2xx, 3xx, 4xx‡ 6
SPAN 3xx, 4xx 12
SPAN 4xx (literature)‡‡ 3

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

Political Science
POSC 441

French
FREN 306 or FREN 406
FREN 308
FREN 355 or FREN 455
HIST 339

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

Spanish
SPAN 306 or SPAN 406
SPAN 308
SPAN 355 or SPAN 455
HIST 339

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

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

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

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

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

Within the College

Twenty-one credits at the 200-level or above 21
chosen with prior approval of the adviser and according to option requirements, from the following areas: Anthropology, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Philosophy.

ELECTIVES

After required 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 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

GREK 101	Elementary Greek	3
GREK 102	Elementary Greek	3

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

FLLT 202	Biblical and Classical Literature	3
FLLT 316	Classical Mythology	3
FLLT 322	Topics: Classical Literature in Translation	6

Within the College

Six credits from 200-, 300-, or 400-level courses (including courses in translation) in Foreign Languages and Literatures, Comparative Literature, Linguistics, or other departments, selected in consultation with the adviser 6

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: CLASSICS EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

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

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

FLLT 202	Biblical and Classical Literature	3
FLLT 316	Classical Mythology	3
FLLT 322	Topics: Classical Literature in Translation	6

Professional Studies

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

The Classics Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p 143) should

*Superior figures indicate year or years in which the course is normally taken, i.e., ^{1}freshman year, ^{2}sophomore year, etc.
‡Must be completed prior to leaving for the semester abroad (FREN 255, GRMN 255 and SPAN 255 are recommended for French, German or Spanish majors, respectively)
‡‡This 400-level literature course must be taken on the Newark Campus.

be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

ELECTIVES

After required 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 concentration (language and literature, civilization and culture, area studies, period studies, linguistics), students should see their adviser or the associate chair of the department.

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Twelve credits in FREN electives at the 200-level and above 12
Twelve credits in FREN literature at the 300 or 400-level 12
(at least six credits must be at the 400-level)

Within the College

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

ELECTIVES

After required 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: FRENCH EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

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

One of the following courses:
FREN 313 Intensive French Composition 3
FREN 306 Practical Oral/Written Expression 3
FREN 305 Advanced French Conversation 3

Two of the following courses:
FREN 308 Contemporary France II 3
FREN 325 French Civilization I 3
FREN 326 French Civilization II 3
FREN 453 French Civilization III 3

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

Professional Studies

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

The French Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

ELECTIVES

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

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

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

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

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

Within the College

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

ELECTIVES

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

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: GERMAN EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

GRMN 200 German Grammar Review 3
or
GRMN 205 German Conversation 3
GRMN 211 German Reading and Composition: Short Fiction 3
or
GRMN 212 German Reading and Composition: Drama 3
GRMN 305 German Conversation and Composition 3
or
GRMN 306 Practical Oral/Written Expression 3
GRMN 311 Introduction to German Literature I 3
and
GRMN 312 Introduction to German Literature II 3
GRMN 308 Contemporary Germany II 3
or

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.

GRMN 325	German Civilization and Culture	3
GRMN 340	Focus on Genre: German Drama, Prose or Poetry	3
or		
GRMN 355	Special Topics	3

One of the following courses:

GRMN 403	History of the German Language	3
GRMN 406	Advanced German Language	3
LING 460	The Structure of German	3

Six credits in GRMN literature at the 400-level 6

Professional Studies

EDST 201	Education in a Multicultural Society	3
EDST 304	Educational Psychology – Social Aspects	3
EDST 305	Educational Psychology – Cognitive Aspects	3
FLLT/LING 421	Methods of Teaching Foreign Languages	3[4]
FLLT/LING 422	Language Syllabus Design	3[4]
LING/FLLT 424	Second Language Testing	3[4]
EDDV 400	Student Teaching	9[4]

The German Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

ELECTIVES

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

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

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

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

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

Within the College

A total of twelve to fifteen credits at the 200-level or above, chosen with prior approval of the adviser 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.	12-15

ELECTIVES

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

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: ITALIAN EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

ITAL 200	Italian Grammar Review	3
or		
ITAL 250	Introduction to Business Italian	3
ITAL 205	Italian Conversation	3
or		
ITAL 206	Culture through Conversation†	3
ITAL 211	Italian Reading and Composition: Short Fiction	3
or		
ITAL 212	Italian Reading and Composition: Drama and Prose	3
ITAL 305	Advanced Italian Conversation and Composition	3
and		
ITAL 306	Practical Oral/Written Expression†	3
ITAL 3xx	Literature	6
ITAL 3xx	Civilization	3
ITAL 4xx	Literature	6
ITAL 4xx	Language	3

Professional Studies

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

The Italian Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

ELECTIVES

After required 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: LATIN STUDIES

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Twelve credits in LATN electives at the 200-level and above	12
Twelve credits in LATN literature at the 300 or 400-level (at least six credits must be at the 400-level)	12

Within the College

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

ELECTIVES

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

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

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: LATIN EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements.

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
†ITAL 206 and ITAL 306 are offered only in Siena.

MAJOR REQUIREMENTS

Within the Department

LATN 2xx		6
LATN 3xx and/or LATN 4xx		9
LATN 421	Latin Prose Composition	3
LATN 431	History of Latin Literature	3
LATN 4xx		9

Professional Studies

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

The Latin Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

ELECTIVES

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

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

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

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

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

Within the College

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

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: RUSSIAN EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

One of the following courses:

RUSS 200	Russian Grammar Review	3
RUSS 205	Russian Conversation	3
RUSS 206	Practical Oral/Written Expression	3
RUSS 211	Russian Reading and Composition	3
RUSS 305	Russian Conversation and Composition	3

Two of the following courses:

RUSS 310	Introduction to Russian Literature I	3
RUSS 312	Introduction to Russian Literature II	3
RUSS 325	Russian Civilization and Culture	3
RUSS 401	Advanced Russian Grammar and Composition	3
Six credits in RUSS literature at the 400-level		6

Related Work:

FLLT 327	Topics: Russian Literature in Translation	3
FLLT 375	Topics: Russian and Soviet Culture in Translation	3

Professional Studies

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

The Russian Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

ELECTIVES

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

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

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

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 adviser or the associate chair of the department.

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Twelve credits in SPAN electives at the 200-level and above		12
Twelve credits in SPAN literature at the 300 or 400-level (at least six credits must be at the 400-level)		12

Within the College

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

ELECTIVES

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

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: SPANISH EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SPAN 201	Spanish Reading and Composition†	3

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
†Spanish 200 is the prerequisite for Spanish 201.

One of the following courses:

SPAN 308	Contemporary Spain II	3
SPAN 325	Spanish Civilization and Culture	3
SPAN 326	Latin American Civilization and Culture	3

Any three of the following four literature survey courses:

SPAN 301	Survey of Spanish Literature	3
SPAN 302	Survey of Spanish l iterature	3
SPAN 303	Survey of Spanish-American Literature	3
SPAN 304	Survey of Spanish-American Literature	3
SPAN 305	Oral Communication	3
or		
SPAN 306	Practical Oral/Written Expression	3
SPAN 314	Spanish Phonetics and Phonology	3

One of the following courses:

SPAN 401	Advanced Spanish Grammar	3
SPAN 403	History of the Spanish Language	3
SPAN 406	Advanced Spanish Language	3

Six credits in SPAN literature at the 400-level 6

Professional Studies

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

The Spanish Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G P.A. requirements and other policies concerning qualifications for student teaching

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

First Language

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

Second Language

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

Third Language

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

Related Work

Six credits from 200-, 300-, or 400-level courses 6
(including courses in translation) in Foreign Languages and Literatures, Comparative Literature, or Linguistics, selected in consultation with the adviser

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

First Language

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

Second Language

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

Third Language

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

Fourth Language

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

Related Work

Six credits from 200-, 300-, or 400-level courses 6
(including courses in translation) in Foreign Languages and Literatures, Comparative Literature, or Linguistics selected in consultation with the adviser.

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

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

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

1. Foreign Languages and Literatures Concentrations: Classics, French Studies, German Studies, Italian Studies, Latin Studies, Russian Studies, Spanish Studies, Three Languages, Four Languages
2. Classics Education
3. French Education
4. German Education
5. Italian Education
6. Latin Education
7. Russian Education
8. Spanish Education

Honors Degree Requirements

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

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

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

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

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

STUDY ABROAD

In addition to several University-sponsored semester programs abroad in such locations as Costa Rica, London, Paris, Vienna, and

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc

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 (Caen), Germany (Bayreuth), Italy (Siena) and Spain (Granada). Beginning and intermediate-level students may participate in winter session programs in Costa Rica, France, Germany, Italy, Mexico, Japan, Martinique, Russia 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.

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 Caen for French, Bayreuth for German, or Granada for Spanish).

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

Information is available at the Department offices.

FOREIGN LANGUAGE CERTIFICATES FOR INTERNATIONAL RELATIONS AND POLITICAL SCIENCE STUDENTS

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

German Courses

Winter Session in Bayreuth, Germany:		CREDITS
GRMN 206	Culture through Conversation	3
GRMN 208	Contemporary Germany I	3
Delaware Campus		
GRMN 255	German Politics in the Press	3
GRMN 325	German Civilization and Culture	3

French Courses

Winter Session in Caen, France:		CREDITS
FREN 206	Culture through Conversation	3
FREN 208	Contemporary France I	3
Delaware Campus		
FREN 255	French Politics in the Press	3
FREN 325	French Civilization I	3
or		
FREN 326	French Civilization II	3
or		
FREN 453	French Civilization III	3

Spanish Courses (Spain)

Winter Session in Granada, Spain:		CREDITS
SPAN 206	Culture through Conversation	3
SPAN 208	Contemporary Spain I	3
Delaware Campus		
SPAN 255	Spanish Politics in the Press	3
SPAN 325	Spanish Civilization and Culture	3

Spanish Courses (Costa Rica)

Winter Session in San José, Costa Rica:		CREDITS
SPAN 206	Culture through Conversation	3
SPAN 207	Contemporary Latin America I	3
Delaware Campus		
SPAN 254	Latin American Politics in the Press	3
SPAN 326	Latin American Civilization and Culture	3

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

Honors Foreign Language Certificate: To earn a Bachelor's degree in Political Science or International Relations with an Honors Foreign Language Certificate, the student must:

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

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

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

FOREIGN LANGUAGE CERTIFICATES FOR ACCOUNTING, BUSINESS ADMINISTRATION AND ECONOMICS STUDENTS

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

German Courses

Winter Session in Bayreuth, Germany:		CREDITS
GRMN 206	Culture through Conversation	3
GRMN 208	Contemporary Germany I	3
Delaware Campus		
GRMN 250	Introduction to Business German	3
GRMN 325	German Civilization and Culture	3

French Courses

Winter Session in Caen, France:		CREDITS
FREN 206	Culture through Conversation	3
FREN 208	Contemporary France I	3
Delaware Campus		
FREN 250	Introduction to Business French	3
FREN 325	French Civilization I	3
or		
FREN 326	French Civilization II	3
or		
FREN 453	French Civilization III	3

Spanish Courses (Spain)

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

Delaware Campus

SPAN 250	Introduction to Business Spanish	3
SPAN 325	Spanish Civilization and Culture	3

Spanish Courses (Latin America)

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

Delaware Campus

SPAN 250	Introduction to Business Spanish	3
SPAN 326	Latin American Civilization and Culture	3

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

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

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

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

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

FOREIGN LANGUAGE CERTIFICATES FOR ENGINEERING STUDENTS

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

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

Delaware Campus

GRMN 240	German Culture and Technology	3
GRMN 325	German Civilization and Culture	3

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

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

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

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

RESIDENCY REQUIREMENT

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

MISCELLANY

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

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

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

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

MINORS

Foreign Language Minors: A minor in a foreign language requires a minimum of 18-21 credits (100-level courses do not count in the French, German, or Spanish minor), as follows:

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

GERMAN: 18 credits above the 100-level including GRMN 311 or 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 composed of 15 credits of Japanese above the 100-level, 6 of which must be at the 300-level and above; and one of the following: JAPN 208 (Contemporary Japan I), FLLT 328 (Topics: Japanese Literature in Translation), or FLLT 380 (Topics: Japanese Culture in Translation).

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

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

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

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

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

FRENCH STUDIES MINOR

FREN 2xx, 3xx, 4xx	6‡
FREN 306 or 406	3
FREN 308	3
Three of: ARTH 339, FREN 355, FREN 455, HIST 339, POSC 441	9
	21

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

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

GERMAN STUDIES MINOR

GRMN 2xx, 3xx, 4xx	6‡
GRMN 306 or 406	3
GRMN 308	3
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 class 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	9
	21

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

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

GEOGRAPHY

Geographers investigate processes that explain the location of human and natural phenomena, as well as the interactions between people and their environment. At the University of Delaware, geographic research includes modeling of the impact of climate on socioeconomic conditions, the role of energy and water budgets in the solution of environmental problems, the examination of urban development and landscape aesthetics, and new approaches to cartographic representation. The study of migration and settlement, and of cultural attitudes toward land and nature, represent further dimensions of inquiry in the department. Such a broad range of interests exemplifies the integrative nature of 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, 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. An additional component of the program is the opportunity for majors to take a number of courses in allied disciplines, tailored to the student's particular interests. During the senior year, majors may, at their option, undertake a research paper under the direction of their program advisers. A detailed brochure describing the geography program and requirements is available upon request from the department office.

DEGREE: BACHELOR OF ARTS
MAJOR: GEOGRAPHY

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
Six credits selected from the following natural geography courses:		
GEOG 101	Physical Geography	3 [1-4]
GEOG 152	Climate and Life	4
GEOG 206	Physical Geography: Topography-Soils	3
GEOG 220	Meteorology	3
GEOG 230	Humans and the Earth Ecosystem	3
GEOG 235	Conservation of Natural Resources	3
GEOG 255	Applied Climatology	3
Six credits selected from the following human geography courses:		
GEOG 102	Human Geography	3 [1-4]
GEOG 120	World Regional Geography	3
GEOG 203	Cultural Geography	3
GEOG 210	Economic Geography	3
GEOG 225	Historical Geography of the United States	3
GEOG 236	Conservation: Global Issues	3
Three credits selected from the following methods courses:		
GEOG 250	Computer Methods in Geography	4 [1-4]
GEOG 270	Map Communication and Design	3
GEOG 272	Map and Air Photo Interpretation	3
Nine credits selected from geography courses at the 300 or 400-level (GEOG 445 strongly recommended)		9 [3,4]
Six credits selected from geography courses at the 200, 300, or 400-level		6 [1-4]
ELECTIVES		
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.		
CREDITS TO TOTAL A MINIMUM OF		**124**

DEGREE: BACHELOR OF ARTS
MAJOR: GEOGRAPHY EDUCATION

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
Six credits selected from the following natural geography courses:		
GEOG 101	Physical Geography	3 [1-4]
GEOG 152	Climate and Life	4
GEOG 206	Physical Geography: Topography-Soils	3
GEOG 220	Meteorology	3
GEOG 230	Humans and the Earth Ecosystem	3
GEOG 235	Conservation of Natural Resources	3
GEOG 255	Applied Climatology	3
Six credits selected from the following human geography courses:		
GEOG 102	Human Geography	3 [1-4]
GEOG 120	World Regional Geography	3
GEOG 203	Cultural Geography	3
GEOG 210	Economic Geography	3

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
‡Must be completed prior to study abroad

GEOG 225	Historical Geography of the United States	3
GEOG 236	Conservation: Global Issues	3

Three credits selected from the following methods courses:

GEOG 250	Computer Methods in Geography	4[1-4]
GEOG 270	Map Communication and Design	3
GEOG 272	Map and Air Photo Interpretation	3

Nine credits selected from geography courses at the 300 or 400-level (GEOG 445 strongly recommended) 9[1-4]

Six credits selected from geography courses at the 200, 300, or 400-level 6[1-4]

Within the College

Twenty-four credits in the following social sciences with at least three credits in each department 24[1-4]

Anthropology course		3
Economics course		3
History course		3
Political Science course		3
Sociology course		3
PSYC 201	General Psychology	3[1-4]

Six additional credits selected from the departments listed above 6[1-4]

Professional Studies

EDST 201	Education in a Multicultural Society	3[1-4]
EDST 304	Educational Psychology – Social Aspects	3[1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3[1-4]
HIST 491	Planning a Course of Instruction	3[4]
HIST 493	Seminar: Problems in Teaching History and Social Sciences	3[4]
EDST 420	Reading in the Content Areas	1[1-4]
EDDV 400	Student Teaching	9[4]

The Geography Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

CREDITS TO TOTAL A MINIMUM OF 124

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.

REQUIREMENTS FOR THE MINOR IN GEOGRAPHY

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

COURSES FOR NONMAJORS

Many geography courses are on the list of approved courses for fulfilling the general education requirements in the College of Arts and Science. At least two geography courses are found within each of the four groups, underscoring geography's role as a discipline that integrates the human and natural environments. The following geography courses presently fulfill requirements within each of the groups:

GROUP A: GEOG 203, 345, 346
GROUP B: GEOG 225
GROUP C: GEOG 102, 120, 210, 230, 235, 240, 320
GROUP D: GEOG 101, 152, 206, 220, 250

BACHELOR OF ENVIRONMENTAL SCIENCE

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: ENVIRONMENTAL SCIENCE

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3[1]

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content # 3[1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* 3[3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Foreign Language: 0-12[1-4]

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

Breadth Requirements† (See page 70)

Nine credits are required in each of the following groups: 27[1-4]

Group A 9

Understanding and appreciation of the creative arts and humanities. At least two areas must be represented.

Group B 9

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

Group C 9

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

MAJOR REQUIREMENTS

Within the Cooperating Departments

GEOL 107	General Geology	4[1,2]
BISC 207, BISC 208	Introductory Biology I and II	8[1,2]
GEOG 220	Meteorology	3[1,2]
GEOG 250	Computer Methods in Geography	4[2,3]
BISC 302	General Ecology	3[2,3]
BISC 312	General Ecology Lab	1[2,3]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.

GEOG 412	Physical Climatology	4 3,4
GEOL 414	Quaternary Geology and Geochronology	3 3,4
GEOG 450, GEOL 450 or BISC 450	Proseminar in Environmental Science	3 4

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

Atmospheric Environment

GEOG 343	Climatic Geomorphology	3 3,4
GEOG 420	Atmospheric Physics	3 3,4
GEOG 451	Microclimatology	3 3,4
GEOG 453	Synoptic Climatology	3 3,4
GEOG 455	Water Budget in Environmental Analysis	3 3,4

Biological Environment

BISC 306	General Physiology	3 3,4
BISC 494	Experimental Ecology	3 3,4
BISC 495	Evolution	3 3,4
BISC 637	Population Ecology	3 3,4
BISC 641	Microbial Ecology	3 3,4

Geology

GEOL 203	Mineralogy and Crystallography	3 2-4
GEOL 303	Sedimentology	3 3,4
GEOL 304	Stratigraphy	3 3,4
GEOL 305	Structural Geology	3 3,4

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

BISC 301	Molecular Biology of the Cell	4 3,4
BISC 321	Environmental Biology	3 3,4
BISC 324	Invertebrate Zoology	3 3,4
BISC 371	Introduction to Microbiology	4 3,4
BISC 608	Genetic Toxicology	2 3,4
BISC 660	Environmental Physiology	3 3,4
CHEM 213	Elementary Organic Chemistry	4 2-4
CIEG 331	Introduction to Environmental Engineering	3 3,4
GEOG 152	Climate and Life	4 1-4
GEOG 206	Topography and Soils	3 1-4
GEOG 230	Humans and the Earth Ecosystem	3 1-4
GEOG 235	Conservation of Natural Resources	3 1-4
GEOG 236	Conservation: Global Issues	3 1-4
GEOG 255	Applied Climatology	3 1-4
GEOG 272	Map and Air Photo Interpretation	3 2-4
GEOG 320	Water and Society	3 2-4
GEOG 330	Biogeography	3 2-4
GEOG 342	Bioclimatology	3 2-4
GEOG 351	Urban Climatology	3 2-4
GEOG 357	Paleoclimatology	3 2-4
GEOG 372	Geographic Information Systems	3 2-4
GEOG 423	Atmospheric Dynamics	3 3,4
GEOG 430	Conservation Forest Ecosystems	3 2-4
GEOG 681	Remote Sensing of Environment	3 3,4
GEOL 204	Properties of Rocks and Minerals	4 2,4
GEOL 402	History of the Earth	3 3,4
GEOL 403	Regional Geology of North America	3 3,4
GEOL 407	Igneous and Metamorphic Petrology	3 3,4
GEOL 411	Quantitative Geomorphology	3 3,4
GEOL 412	Geological Approaches to Archaeology and History	3 3,4
GEOL 421	Environmental and Applied Geology	3 3,4
GEOL 428	Hydrogeology	3 3,4
GEOL 431	Marine Geology	3 3,4
GEOL 432	Recent Sedimentary Environments	3 3,4
GEOL 434	The Geology of Coasts	3 3,4
GEOL 446	General Geochemistry	3 3,4
GEOL 460	Field Geology in the Western States	3-6 3,4
MAST 200	Concepts in Oceanography	3 1-4
PHYS 208	Fundamentals of Physics II	4 2,3
PLSC 204	Introduction to Soil Science	4 1-4
POSC 350	Politics and the Environment	3 2-4

Within the College

Related Work

MATH 241, MATH 242, MATH 243	Analytic Geometry and Calculus	12 1,2

One of the following five courses:

MATH 302	Ordinary Differential Equations	3 2,3
MATH 349	Elementary Linear Algebra	3 2,3
STAT 450	Statistics for Engineering & Physical Sciences	3 3,4
STAT 656	Biostatistics	3 3,4
STAT 657	Statistics for Earth Sciences	3 3,4
CHEM 103, CHEM 104	General Chemistry	8 1,2
PHYS 207	Fundamentals of Physics I	4 2,3
or		
PHYS 201	Introductory Physics I	4 2,3

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..... 127

GEOLOGY

Geology, the study of the earth, employs the methods of other sciences, as well as those unique to geology, to investigate the nature, processes, and history of the earth. Geology is vital to the discovery and recovery of earth resources including petroleum and other fuels, metals and building materials. Geologists and geophysicists also deal with environmental issues and the understanding of natural hazards such as earthquakes, volcanoes, landslides and floods. New interest in the earth as an integrated global system and shifting employment opportunities for geologists have dictated a major change in emphasis for the earth sciences. Recent trends indicate that over the next few years most geologists will be hired in the environmental field.

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.

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.

In recognition of the relationship of geology to many academic disciplines and the many applications of geology to problems of the environment and the recovery of earth resources, the Department of Geology offers courses in varied aspects of geology for nonmajors. These include the general courses, GEOL 105 and 106, as well as specialty courses, such as GEOL 110, 144, 233, 234, 243, and 245. These courses fulfill the GROUP D requirements for the College of Arts and Science.

DEGREE: BACHELOR OF ARTS
MAJOR: GEOLOGY

CURRICULUM	CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

GEOL 107	General Geology I	4 1

*Superior figures indicate year or years in which the course is normally taken, i.e., 1freshman year, 2sophomore year, etc.

GEOL 203	Mineralogy and Crystallography	3[2]
GEOL 204	Properties of Rocks and Minerals	4[2]
GEOL 301	Systematic and Evolutionary Paleontology	3[3]
GEOL 303	Sedimentology	3[3]
GEOL 304	Stratigraphy	3[3]
GEOL 305	Structural Geology	3[3]
GEOL 402	History of the Earth	3[4]
GEOL 407	Igneous and Metamorphic Petrology	3[4]
GEOL 452	Plate Tectonics and Geophysics	3[4]

Three credits of field geology (taught only in the summer):

GEOL 432	Recent Sedimentary Environment	3[3,4]
GEOL 460	Field Geology in the Western States	3-6[3,4]

Within the College

Chemistry courses (CHEM 103-104)		8[2]
Physics courses (PHYS 201-202)		8[3]
Mathematics courses through college-level trigonometry		3-4[1]

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: GEOLOGY
CONCENTRATION: PALEOBIOLOGY

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

GEOL 107	General Geology I	4[1]
GEOL 203	Mineralogy and Crystallography	3[2]
GEOL 204	Properties of Rocks and Minerals	4[2]
GEOL 301	Systematic and Evolutionary Paleontology	3[3]
GEOL 303	Sedimentology	3[3]
GEOL 304	Stratigraphy	3[3]
GEOL 305	Structural Geology	3[4]
GEOL 402	History of the Earth	3[4]
GEOL 466	Independent Study	3[4]

Three credits of field geology (taught only in the summer):

GEOL 432	Recent Sedimentary Environment	3[3,4]
GEOL 460	Field Geology in the Western States	3-6[3,4]

Within the College

BISC 207	Introductory Biology I	4[1]
BISC 208	Introductory Biology II	4[1]
BISC 302	General Ecology	3[3]
BISC 324	Invertebrate Zoology	4[4]
BISC 442	Vertebrate Morphology (recommended)	3
BISC 495	Evolution	3[4]
STAT 201	Introduction to Statistics I	3[4]
STAT 202	Introduction to Statistics II	3[4]
CHEM 103	General Chemistry	4[2]
CHEM 104	General Chemistry	4[2]
MATH 115	Pre-calculus	3[1]

ELECTIVES

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

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: GEOLOGY

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3[1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #		3[1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* 3[3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Foreign Language: 0-12[1-4]

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

Breadth Requirements† (See page 70)

A total of eighteen credits from Groups A, B and C is required with six credits in each group. The six credits from each group could be from the same area: 18[1-4]

Group A

Understanding and appreciation of the creative arts and humanities.

Group B

The study of culture and institutions over time.

Group C

Empirically based study of human beings and their environment.

MAJOR REQUIREMENTS

Within the Department

GEOL 107	General Geology I	4[1]
GEOL 203	Mineralogy and Crystallography	3[2]
GEOL 204	Properties of Rocks and Minerals	4[2]
GEOL 301	Systematic and Evolutionary Paleontology	3[3]
GEOL 303	Sedimentology	3[3]
GEOL 304	Stratigraphy	3[3]
GEOL 305	Structural Geology	3[3,4]
GEOL 402	History of the Earth	3[4]
GEOL 407	Igneous and Metamorphic Petrology	3[4]
GEOL 452	Plate Tectonics and Geophysics	3[3,4]

Six credits from the following:

GEOL 460	Field Geology in the Western States	3-6[3,4]
or		
GEOL 432	Recent Sedimentary Environments	3[3,4]
Geology courses (400-level)		9[3,4]

Within the College

Related Work

MATH 241	Analytic Geometry and Calculus A	4[1]
CHEM 103	General Chemistry	4[2]
CHEM 104	General Chemistry	4[2]
PHYS 201	Introductory Physics I	4[3]

Two of the following:

MATH 242	Analytic Geometry and Calculus B	4[1]
PHYS 202	Introductory Physics II	4[3]
STAT 205	Statistical Methods	4[2-4]

Two of the following:

BISC 207	Introductory Biology I	4[2-4]
BISC 208	Introductory Biology II	4[2-4]

Elective supporting science course (see department chair for a list of approved courses) 3-4[2-4]

ELECTIVES

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

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

REQUIREMENTS OF THE MINOR IN GEOLOGY

The minor consists of at least 18 credit hours in geology. The requirements are: GEOL 107; GEOL 203; at least two of the follow-

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.

ing: GEOL 204, 301, 303, 304, 305; any 400-level geology course or courses must be used to obtain the remaining credits to reach a total of 18.

DEGREE: BACHELOR OF ARTS
MAJOR: EARTH SCIENCE EDUCATION

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
GEOL 105	General Geology	4[1]
or		
GEOL 107	General Geology	4[1]
GEOL 106	General Geology	4[1]
GEOG 101	Physical Geography	3[1-4]
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	3
PHYS 133	Introduction to Astronomy	4[1,2]
PHYS 201	Introductory Physics I	4[1,2]
PHYS 202	Introductory Physics II	4[1,2]
CHEM 103	General Chemistry	4[1,2]
BISC 195	Biological Evolution	3[1-4]
MATH 221	Calculus I	3[1,2]
Three credits from the following:		
GEOL 432	Recent Sedimentary Environments	3[3,4]
GEOL 460	Field Geology in the Western States	3-6[3,4]
External to the College		
MAST 200	Introduction to Marine Studies	3[1-4]
Professional Studies		
EDST 201	Education in a Multicultural Society	3[1-4]
EDST 304	Educational Psychology – Social Aspects	3[1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3[1-4]
SCEN 491	Teaching Science in Secondary Schools	4[4]
EDST 420	Reading in the Content Area	1[1-4]
EDDV 400	Student Teaching	9[4]

The Earth Science Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

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

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 SCIENCE
MAJOR: GEOPHYSICS

CURRICULUM		CREDITS*
UNIVERSITY REQUIREMENTS		
ENGL 110	Critical Reading and Writing**	3[1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.#		3[1-4]
COLLEGE REQUIREMENTS		
Skill Requirements		
Writing:*		3[3,4]
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)		
Breadth Requirements† (See page 70)		
A total of eighteen credits from Groups A, B and C is required with six credits in each group. The six credits from each group could be from the same area		18[1-4]
Group A		
Understanding and appreciation of the creative arts and humanities		
Group B		
The study of culture and institutions over time		
Group C		
Empirically based study of human beings and their environment		
MAJOR REQUIREMENTS		
Within the Department		
GEOL 107	General Geology I	4[1]
GEOL 203	Mineralogy and Crystallography	3[2]
GEOL 204	Properties of Rocks and Minerals	4[2]
GEOL 303	Sedimentology	3[3]
GEOL 305	Structural Geology	3[3]
GEOL 402	History of the Earth	3[4]
GEOL 451	Geophysical Field Methods	3[3,4]
GEOL 452	Plate Tectonics and Geophysics	3[3,4]
GEOL 453	Elementary Geophysics I	3[4]
GEOL 454	Elementary Geophysics II	3[4]
GEOL 460	Field Geology in the Western States	3[3,4]
One of the following three courses:		
GEOL 301	Systematic and Evolutionary Paleontology	3[3]
GEOL 304	Stratigraphy	3[3]
GEOL 407	Igneous and Metamorphic Petrology	3[3]
Within the College		
PHYS 207	Fundamentals of Physics I	4[1]
PHYS 208	Fundamentals of Physics II	4[2]
PHYS 209	Fundamentals of Physics III	3[2]
PHYS 645	Electronics for Scientists	3[3,4]
PHYS 646	Instrumentation for Scientists	3[3,4]
One of the following four courses:		
PHYS 313	Physical Optics	4[4]
PHYS 603	Electricity and Magnetism	3[3,4]
(If PHYS 603 is selected, PHYS 604 is strongly encouraged as an elective course.)		
PHYS 616	Kinetic Theory and Thermodynamics	3
PHYS 631	Acoustics	3
Related Work		
CISC 106	General Computer Science for Engineers	3[1,2]
MATH 241	Analytic Geometry and Calculus A	4[1]
MATH 242	Analytic Geometry and Calculus B	4[1]
MATH 243	Analytic Geometry and Calculus C	4[2]
MATH 302	Ordinary Differential Equations I	3[2]
CHEM 103	General Chemistry	4[2]
External to the College		
MEEG 213	Principles of Mechanics I	3[3,4]

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

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation

HISTORY

The study of history combines literary art and critical analysis, enabling us to analyze complex situations and to present our findings clearly and effectively. These intellectual and literary skills can be easily transferred to other disciplines and to real life situations.

Strengths of the department include the fields of U.S. and European history; social, cultural, intellectual, and women's history; the history of science and technology; and the history of American civilization as well as course offerings in African, East Asian, Latin American, and Middle Eastern history.

The History Department offers a rich array of programs. In addition to the regular major, students can choose a concentration in American, European, Global, or Policy history. In conjunction with the College of Education, it offers a History Education program for those choosing a career as secondary school social studies teachers. Collaboration with the Department of Foreign Languages and Literatures has resulted in a major combining languages with the history of the regions in which those languages are spoken. Together with the Department of English, the History Department administers a History/Journalism major. The department also maintains an advisory program for prelaw students majoring in history.

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

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
HIST 101	Western Civilization to 1648	3^{1-4}
HIST 102	Western Civilization: 1648 to the Present	3^{1-4}
HIST 268	Seminar	3^{2}
History course on the history of Asia, Africa, Latin America, or the Ancient World		3^{1-4}
History courses at or above the 300-level		12^{2-4}
History seminar at the 400-level or above (excluding HIST 491 and 493 and Independent Study)		3^{3-4}
History course		3^{1-4}
ELECTIVES		
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree		
CREDITS TO TOTAL A MINIMUM OF		**124**

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

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
HIST 101	Western Civilization to 1648	3^{1-4}
HIST 102	Western Civilization: 1648 to the Present	3^{1-4}
HIST 268	Seminar	3^{2}
History course on the history of Asia, Africa, Latin America, or the Ancient World		3^{1-4}
Seven courses in the field of emphasis. With written approval of the advisor, a student may take two of these courses outside the Department of History		21^{1-4}
History seminar at the 400-level or above (excluding HIST 491 and 493 and Independent Study)		3^{3-4}
ELECTIVES		
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree		
CREDITS TO TOTAL A MINIMUM OF		**124**

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

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
HIST 101	Western Civilization to 1648	3^{1-4}
HIST 102	Western Civilization: 1648 to the Present	3^{1-4}
HIST 268	Seminar	3^{2}
History course on the history of Asia, Africa, Latin America, or the Ancient World		3^{1-4}
Seven courses in the field of emphasis. With written approval of the advisor, a student may take two of these courses outside the Department of History		21^{1-4}
History seminar at the 400-level or above (excluding HIST 491 and 493 and Independent Study)		3^{3-4}
ELECTIVES		
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree		
CREDITS TO TOTAL A MINIMUM OF		**124**

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

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
HIST 101	Western Civilization to 1648	3^{1-4}
HIST 102	Western Civilization: 1648 to the Present	3^{1-4}
HIST 268	Seminar	3^{1-4}
History course on the history of Asia, Africa, Latin America, or the Ancient World		3^{2}
Seven courses in the field of emphasis. With written approval of the advisor, a student may take two of these courses outside the Department of History		21^{1-4}
History seminar at the 400-level or above (excluding HIST 491 and 493 and Independent Study)		3^{3-4}
ELECTIVES		
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree		
CREDITS TO TOTAL A MINIMUM OF		**124**

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

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
HIST 101	Western Civilization to 1648	3^{1-4}
HIST 102	Western Civilization: 1648 to the Present	3^{1-4}
HIST 268	Seminar	3^{2}
History course on the history of Asia, Africa, Latin America, or the Ancient World		3^{1-4}

*Superior figures indicate year or years in which the course is normally taken, i.e., ^{1}freshman year, ^{2}sophomore year, etc.

Seven courses in the field of emphasis. With written approval of the advisor, a student may take two of these courses outside the Department of History — 21 [1-4]
History seminar at the 400-level or above (excluding HIST 491 and 493 and Independent Study) — 3 [3-4]

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY EDUCATION

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

HIST 101	Western Civilization to 1648	3 [1-4]
HIST 102	Western Civilization: 1648 to the Present	3 [1-4]
HIST 268	Seminar	3 [2]
History course on the history of Asia, Africa, Latin America, or the Ancient World		3 [1-4]
History courses at or above the 300-level		12 [2-4]
History seminar at the 400-level or above (excluding HIST 491 and 493 and Independent Study)		3 [3-4]
History course		3 [1-4]

Within the College

Twenty-four credits in the following social sciences with at least three credits in each department	24 [1-4]
Anthropology course	3
Economics course	3
Geography course	3
Political Science course	3
Sociology course	3
PSYC 201 General Psychology	3 [1-4]
Six additional credits selected from the departments listed	6 [1-4]

Professional Studies

EDST 201	Education in a Multicultural Society	3 [1-4]
EDST 304	Educational Psychology – Social Aspects	3 [1-4]
EDST 305	Educational Psychology -- Cognitive Aspects	3 [1-4]
HIST 491	Planning a Course of Instruction†	3 [4]
HIST 493	Seminar: Problems in Teaching History and Social Sciences‡	3 [4]
EDST 420	Reading in the Content Areas	1 [1-4]
EDDV 400	Student Teaching	9 [4]

CREDITS TO TOTAL A MINIMUM OF 124

Students planning to enroll in EDDV 400 Student Teaching in their senior year must submit a student teaching application in February of their junior year. Applications may be obtained from the History Department Office, or from the program director, Dr. William E. Pulliam, by the end of the preceding semester. To continue in the program in their senior year, students must have a 3.0 in history and a 2.75 cumulative g.p.a. and must meet certain other qualifications.

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

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

HIST 101	Western Civilization to 1648	3 [1-4]
HIST 102	Western Civilization: 1648 to the Present	3 [1-4]
Five 300-level courses, at least two of which must deal with countries that use the chosen foreign language		15 [2-4]
History seminar at the 400-level or above (excluding HIST 491 and 493 and Independent Study)		3 [3-4]

Within the Department of Foreign Languages and Literatures

Classics

Civilization: Two classical civilization (or culture) courses: e.g., FLLT 202 (Biblical and Classical Literature) and FLLT 316 (Mythology)	6 [1-4]
Literature: Either 9 credits of Latin at the 200-level or above and 3 credits of Latin at the 300-level or above, or GREK 213 and GREK 214 and 6 credits of Latin at the 200-level or above	12 [1-4]

French

Civilization: FREN 325 (French Civilization I), or FREN 326 (French Civilization II)	3 [1-4]
Literature: FREN 301 (Introduction to French Literature: Prose) and FREN 302 (Introduction to French Literature: Poetry and Theatre)	6 [1-4]
400-level literature course	3 [1-4]
Two courses at the 200, 300, or 400-level	6 [1-4]

German

Civilization: GRMN 325 (German Civilization and Culture)	3 [1-4]
Literature: GRMN 311 (Introduction to German Literature I) and GRMN 312 (Introduction to German Literature II)	6 [1-4]
400-level literature course	3 [1-4]
Two courses at the 200, 300, or 400-level	6 [1-4]

Russian

Civilization: RUSS 325 (Russian Civilization)	3 [3]
Literature: RUSS 310 (Introduction to Russian Literature I) and RUSS 312 (Introduction to Russian Literature II)	6 [3-4]
400-level literature course	3 [4]
Two courses at the 200, 300, or 400-level	6 [2-4]

Spanish*

Civilization: SPAN 325 (Spanish Civilization and Culture) or SPAN 326 (Latin American Civilization and Culture)	3 [1-4]
Literature: SPAN 301 (Survey of Spanish Literature) and SPAN 302 (Survey of Spanish Literature) or SPAN 303 (Survey of Spanish-American Literature) and SPAN 304 (Survey of Spanish-American Literature)	6 [1-4]
400-level literature course	3 [1-4]
Two courses at the 200, 300, or 400-level	6 [1-4]

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: HISTORY
CONCENTRATION: JOURNALISM

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

HIST 101	Western Civilization to 1648	3 [1-4]
HIST 102	Western Civilization: 1648 to the Present	3 [1-4]
HIST 268	Seminar	3 [2]
History course on the history of Asia, Africa, Latin America, or the Ancient World		3 [1-4]
History courses at or above the 300-level		12 [2-4]
History seminar at the 400-level or above (excluding HIST 491 and 493 and Independent Study)		3 [3-4]
History course		3 [1-4]

Within the College

ENGL 307	New Writing and Editing	3 [1-4]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
†Fall semester only (minimum grade of C-)
‡Spring semester only
***Students must choose either the Peninsular (325, 301, 302) or the Latin American (326, 303, 304) track.

Nine credits chosen from the following courses:		9[1-4]
ENGL 308	Reporter's Practicum	3
ENGL 309	Feature and Magazine Writing	3
ENGL 310	Copy Editing and Layout	3
ENGL 407	Advanced Reporting	1-3
ENGL 409	Topics in Journalism	3
ENGL 466	Independent Study	1-6

ELECTIVES

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

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

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.

JOURNALISM

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

LINGUISTICS

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

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

LING 101	Introduction to Linguistics	3
One of the following:		
LING 407	Phonology I	3
LING 409	Syntax I	3
LING 477	Structure of English	3
LING 491	Semantics I	3
Any four additional LING courses, two of which must be at the 300-level or above		12

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

COGNITIVE SCIENCE MINOR

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

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

A. **All** the following:

LING 101	Introduction to Linguistics
PSYC 201	General Psychology
CISC 105	General Computer Science
or	
CISC 181	Introduction to Computer Science (prereq: CISC 105 or programming experience)

B. **One** of the following:

LING 409	Syntax I (prereq: LING 101)
LING 491	Semantics I (prereq: LING 101)
CISC 480	Computers and the Mind
PSYC 340	Cognition (prereq: PSYC 309)

C. **Two** of the following:

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

The courses not chosen under B

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

For more information, contact: Professor William Frawley,
Department of Linguistics
(302) 831-6806
email: billf@brahms.udel.edu

CONFERENCE INTERPRETATION PROGRAM

Intensive Summer Seminar in Simultaneous and Consecutive Interpretation

Within the Department of Linguistics, the Conference Interpretation Program offers an intensive course in simultaneous and consecutive interpretation during the summer session. The Delaware program is one of only five in existence in the United States.

Coursework includes: basic theoretical constructs, pre-interpretation exercises, consecutive note-taking and note-reading, public speaking skills, simultaneous interpretation, self-monitoring techniques, short term memory strategies, ethics, scenario writing and role playing.

The languages of the intensive summer seminar are English and Spanish. Candidates must have a good working knowledge of both languages in order to participate. Other languages may be offered based on student demand and faculty availability. Prospective students are urged to contact the Department of Linguistics regarding additional working languages.

SPEECH PATHOLOGY AND COGNITIVE AND LINGUISTIC SCIENCE

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

and logical foundations of cognitive science. Students interested in this area may pursue an interdepartmental major or a Bachelor of Arts in Liberal Studies degree. 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.

MATHEMATICAL SCIENCES

The Department of Mathematical Sciences provides service courses for those who need to use mathematics and statistics in their career, be it engineering, science, medicine, or management. Mathematical sciences majors must also delve deeply into the structure of their subject without neglecting its applications. The balance between these two phases of mathematical education will depend on the goals and the inclination of the student. To meet these various needs, the Department offers four degree programs: the Bachelor of Science in Mathematical Sciences, the Bachelor of Science in Statistics, the Bachelor of Arts in Mathematical Sciences, and the Bachelor of Arts in Mathematics Education, which trains students for careers in secondary school mathematics education.

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 302 by the end of the fifth semester; or (3) has failed to successfully complete any required Mathematical Science course for two consecutive semesters. Consistent with the program requirements, "successfully complete" means to earn a grade of C- or better. A student not making satisfactory progress may petition the department to remain as a major when there are extenuating circumstances.

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

DEGREE: BACHELOR OF ARTS
MAJOR: MATHEMATICAL SCIENCES

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS‡		
Within the Department		
MATH 210	Discrete Mathematics I	3 [1]
MATH 242	Analytic Geometry and Calculus B***	4 [1]
MATH 243	Analytic Geometry and Calculus C	4 [2]
MATH 245	An Introduction to Proof	3
MATH 349	Elementary Linear Algebra	3 [2]
MATH 302	Ordinary Differential Equations	3 [2]
STAT 300	Statistical Methods and Theory	4
Nine credits of mathematics and/or statistics at the 300 level or above. MATH 379, MATH 380, MATH 381, MATH 555, STAT 450, and STAT 555 are not applicable.		9 [3,4]
Within the College		
Students with previous experience with a programming language should take:		
CISC 181	Introduction to Computer Science	3
and		
CISC 220	Data Structures	3
Students with no previous experience with a programming language should take:		
CISC 105	General Computer Science	3
and		
CISC 120	Object Oriented Programming in C++	2
and		
CISC 220	Data Structures	3
Any substitutions must be approved by the department Undergraduate Studies Committee.		
ENGL 312	Written Communications in Business	3 [3,4]
or		
Suitable equivalent		
Within the University		
Area of application outside the department must be approved by the department Undergraduate Studies Committee. Student should check with adviser.		15 [1-4]
ELECTIVES		
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree, at least 79 outside Mathematical Sciences.		
CREDITS TO TOTAL A MINIMUM OF		**124**

DEGREE: BACHELOR OF SCIENCE
MAJOR: MATHEMATICAL SCIENCES

CURRICULUM		CREDITS*
UNIVERSITY REQUIREMENTS		
ENGL 110	Critical Reading and Writing**	3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.#		3 [1-4]
COLLEGE REQUIREMENTS		
Skill Requirements		
Writing:*		3 [3,4]
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)		
Foreign Language:		0-12 [1-4]
Completion of the intermediate-level course (107 or 112) in a given language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination.		
French, Russian, or German is recommended.		
Breadth Requirements† (See page 70)		
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.		21 [1-4]
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.		

*Superior figures indicate year or years in which the course is normally taken, i e, [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
‡A grade of C- or better is required for major courses and related work.
***Students lacking adequate preparation for MATH 242 should begin with MATH 241

MAJOR REQUIREMENTS‡

Within the Department

MATH 210	Discrete Mathematics I	3 [1]
MATH 242	Analytic Geometry and Calculus B***	4 [1]
MATH 243	Analytic Geometry and Calculus C	4 [2]
MATH 245	An Introduction to Proof	3 [2]
MATH 302	Ordinary Differential Equations	3 [2]
MATH 349	Elementary Linear Algebra	3 [2]
MATH 401	Advanced Calculus	3 [2,3]
MATH 426	Introduction to Numerical Analysis and Algorithmic Computation	3 [3,4]
MATH 451	Abstract Algebra I	3 [3,4]
STAT 300	Statistical Methods and Theory	4
Eighteen additional credits of mathematics and/or statistics at the 300 level or above. MATH 379, MATH 380, MATH 381, MATH 555, STAT 450, and STAT 555 are not applicable.		18 [3,4]

Within the College

Students with previous experience with a programming language should take:

CISC 181	Introduction to Computer Science	3
and		
CISC 220	Data Structures	3

Students with no previous experience with a programming language should take:

CISC 105	General Computer Science	3
and		
CISC 120	Object Oriented Programming in C++	2
and		
CISC 220	Data Structures	3

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

ENGL 312	Written Communications in Business	3 [3,4]
Two-semester sequence of laboratory science		8 [1,2]

ELECTIVES

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

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: STATISTICS

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.#		3 [1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* 3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Foreign Language: 0-12 [1-4]

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

Breadth Requirements† (See page 70) 21 [1-4]

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

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

Group B
The study of culture and institutions over time

Group C
Empirically based study of human beings and their environment

MAJOR REQUIREMENTS‡

Within the Department

MATH 210	Discrete Mathematics I	3 [1]
MATH 242	Analytic Geometry and Calculus B***	4 [1]
MATH 243	Analytic Geometry and Calculus C	4 [2]
MATH 260	Concepts of Analysis	3 [2]
MATH 349	Elementary Linear Algebra	3 [2]
MATH 302	Ordinary Differential Equations	3 [2]
MATH 426	Introduction to Numerical Analysis and Algorithmic Computation	3 [3,4]
MATH 503	Advanced Calculus for Applications	3 [3,4]
or		
MATH 600	Fundamentals of Real Analysis	3
and		
MATH 602	Advanced Calculus – Introduction to Analysis II	3
STAT 205	Statistical Methods	4 [1]
STAT 370	Introduction to Statistical Analysis I	3 [2]
STAT 371	Introduction to Statistical Analysis II	3 [2]
STAT 418	Sampling Methods	3 [3,4]
STAT 420	Data Analysis and Nonparametric Statistics	3 [3,4]
STAT 611	Regression Analysis	3 [3,4]
STAT 615	Design and Analysis of Experiments	3 [3,4]

Three credits from the following:

STAT 616	Design and Analysis of Experiments II	3 [4]
STAT 617	Multivariate Methods	3 [4]
STAT 618	Sampling Techniques	3 [4]

Within the College

Related Work

CISC 105	General Computer Science	3 [1,2]
or		
CISC 106	General Computer Science for Engineers	3
or		
CISC 180	Introduction to Computer Science I	3
ENGL 312	Written Communications in Business	3 [3,4]
Two-semester sequence of laboratory science		8 [1,2]
Area of application:		15 [1-4]

This program requires a fifteen-credit area of application outside the department. Students must meet regularly with the adviser to develop it.

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: MATHEMATICS EDUCATION

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.#		3 [1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* 3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
‡A grade of C- or better is required for major courses and related work
***Students lacking adequate preparation for MATH 242 should begin with MATH 241.

courses are normally designated in the semester's Registration Booklet (See list of courses approved for second writing requirement, page 68.)

Foreign Language: 0-12 [1-2]

Completion of the intermediate-level course (107 or 112) in a given language or, for students with more than 4 years of high school foreign language or the equivalent, satisfactory performance on a proficiency test in that language. French, Russian or German is recommended.

Breadth Requirements† (See page 70)

Group A 12 [1-4]

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

Group B 9 [1-4]

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

Group C 9 [1-4]

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

Group D 13 [1-4]

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

MAJOR REQUIREMENTS‡

Within the Department

MATH 210	Discrete Mathematics I	3 [1]
MATH 242	Analytic Geometry and Calculus B***	4 [1]
MATH 243	Analytic Geometry and Calculus C	4 [2]
MATH 245	An Introduction to Proof	3
MATH 349	Elementary Linear Algebra	3 [2]
MATH 389	Graph Theory	3
MATH 401	Advanced Calculus	3
MATH 451	Abstract Algebra I	3 [3]
MATH 518	Mathematical Models and Applications	3 [3,4]
or another Modeling course		
MATH 540	Geometry	3 [3]
STAT 300	Statistical Methods and Theory	4

In addition, students seeking certification to teach calculus must complete:

MATH 503	Advanced Calculus for Applications	3 [1-4]
MATH 508	Introduction to Complex Variables and Application	3 [1-4]

Within the College

CISC 105	General Computer Science	3 [1,2]
or		
CISC 106	General Computer Science for Engineering	3
or		
CISC 181	Introduction to Computer Science	3
PHYS 207	Introductory Physics I	4 [1,2]
ENGL 312	Written Communications in Business	3 [3,4]

Professional Studies

EDST 201	Education in a Multicultural Society	3 [1-4]
EDST 304	Educational Psychology – Social Aspects	3 [1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3 [1-4]
MATH 179	Problem Solving Strategies I	1
MATH 379	Problem Solving Strategies	1 [4]
MATH 380	Approaches to Teaching Mathematics	3 [4]
MATH 381	Practicum in Secondary Mathematics	1 [2]
EDST 420	Reading in the Content Areas	1 [1-4]
EDDV 400	Student Teaching	9 [4]

The Mathematics Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree, 79 outside of Mathematical Sciences.

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

COURSES FOR OTHER MAJORS

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

The calculus sequence MATH 221-222 and finite mathematics course MATH 230 are designed for students in the biological, behavioral, management and social sciences. Trigonometry is not a prerequisite for these courses. Requirements in mathematics preparation for these programs vary greatly; thus students with preparation in trigonometry, a high aptitude for mathematics, or an expectation of pursuing more quantitative aspects might seriously consider taking MATH 210 as an alternative to MATH 230 and MATH 241-242 as an alternative to MATH 221-222.

The sequence MATH 251-252 is designed for training elementary school teachers and is restricted to declared majors in the appropriate programs of the College of Education and College of Human Resources.

Students who need further preparation in algebra and trigonometry prior to a 200-level course should take MATH 115. MATH 114 serves to establish minimal skill levels for students not expecting to continue at the 200-level. Students seeking mathematical electives for self-enrichment may select MATH 280 if their skills are adequate for the 200-level.

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

REQUIREMENTS FOR A MINOR IN MATHEMATICS

A student seeking a minor in mathematics must obtain permission from the chairperson or his designee in the Department of Mathematical Sciences. Course requirements consist of a total of 18 credits in mathematics to include 9 credits above MATH 302 (MATH 341 is not considered above MATH 302 since it is a comparable course from a different track. However, MATH 342 may be counted as above MATH 302, provided MATH 349 is not included in the count.) STAT 370 or any course cross-listed with a mathematics course may be counted toward the minor, except that courses in mathematics education (e.g., MATH 379, 380, 381) do not apply.

REQUIREMENTS FOR A MINOR IN STATISTICS

A student seeking a minor in statistics must obtain permission from the chairperson or his/her designee in the Department of Mathematical Sciences. Course requirements include STAT 370-371 and 9 credits in statistics above STAT 371 (excluded are STAT 555, STAT 650, STAT 656 and STAT 657).

MILITARY SCIENCE

Students at the University of Delaware have the opportunity to earn a commission as a Second Lieutenant in the U.S. Army upon completion of military science and a baccalaureate degree. The normal four-year program consists of the completion of eight semester courses, totaling 12 credits, and one six-week summer camp. Courses at

†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
‡A grade of C- or better is required for major courses and related work.
***Students lacking adequate preparation for MATH 242 should begin with MATH 241

the 100 and 200-level are electives open to all students. To be eligible to take 300 and 400-level courses, students must have completed all 100 and 200-level courses or qualify for the two-year program as described below. Restrictions apply for those students who are seeking an Army Commission (for more information contact the Military Science Department at 831-2217). A military obligation is incurred only if the student contracts for a commission and receives pay.

Two-Year Program. The two-year program provides sophomores, juniors, and graduate students who have not completed the first two years of military science the opportunity to qualify for advanced ROTC and to obtain a commission. The student must have at least two years of full-time academic status remaining to qualify. As a prerequisite, the student must complete a six-week summer basic camp. Students are paid while attending this camp. Military veterans with two academic years remaining generally qualify automatically for the two-year program.

Advanced Camp. The ROTC student desiring to receive a commission must successfully complete a six-week summer camp, normally between the junior and senior years. This camp allows the student to apply, in a military environment, those leadership and technical skills studied on campus. Students are provided uniforms, food, lodging, and medical care at no cost and are paid during this period. Transportation to and from the student's home is provided.

Pay and Allowances. ROTC students contracting for a commission during the junior and senior years receive a subsistence allowance of $100 per academic month.

Army ROTC Scholarship. Three- and four-year scholarships are awarded on the basis of academic merit and leadership potential. Scholarships pay up to $12,000 in tuition, an allowance for books and supplies, fees, and $150 subsistence allowance per academic month. A limited number of scholarships are available to qualified students who desire a commission in the Army Reserve or National Guard.

Obligation. All ROTC graduates must serve in some capacity for eight years. This may be fulfilled by serving three to four years on active duty, followed by service in the Army National Guard (ARNG) or U.S. Army Reserve (USAR), or by serving eight years in the Guard or Reserve preceded by the active duty time needed to complete an officer basic course.

Educational Delay. ROTC graduates may apply for a delay from entry on active duty for the purpose of obtaining an additional academic degree.

Academic Credit. The colleges of Agricultural Sciences, Arts and Science, Business and Economics, Education, Human Resources, and Physical Education, Athletics and Recreation accept all 12 military science credits toward graduation. The College of Nursing and College of Engineering accept 6 and 4 credits, respectively.

MUSIC

The Department of Music provides a wide variety of educational opportunities, ranging from experiences directed to the cultural enrichment of the entire University community to the preparation of students for professional careers in music. The department is a leader in the development of computer-based instruction in music and video-disc technology. It is a full member of the National Association of Schools of Music.

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

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

The curricula for students majoring in music lead to the degrees Bachelor of Music and Bachelor of Arts. The programs in the degree Bachelor of Music are directed to those who intend to become professional musicians. They offer opportunities to major in Music Education, Theory-Composition, or Applied Music (band or orchestral instruments, organ, piano, classical guitar, and voice). The degree Bachelor of Arts offers the opportunity for professional study in music within a liberal arts context. All programs in music provide effective preparation for graduate study.

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

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: MUSIC

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department‡		
Applied Music		
MUSC 100	Recital Attendance (four semesters required)	0 [1,2]
MUSC 161	Private Study	2 [1-3]
MUSC 162	Private Study	2 [1-3]
MUSC 175	Class Piano: Elementary I	1 [1]
MUSC 261	Private Study	2 [2-4]
MUSC 262	Private Study	2 [2-4]
Theory		
MUSC 185	Ear Training and Sight Singing I	2 [1-3]
MUSC 186	Ear Training and Sight Singing II	2 [1-3]
MUSC 285	Advanced Ear Training and Sight Singing I	2 [2-4]
MUSC 286	Advanced Ear Training and Sight Singing II	2 [2-4]
MUSC 195	Harmony I	3 [1-3]
MUSC 196	Harmony II	3 [1-3]
MUSC 295	Advanced Harmony I	3 [2-4]
MUSC 296	Advanced Harmony II	3 [2-4]
Ensemble***		
Four credits of large ensembles (Students must be enrolled in a large ensemble during all semesters in which they are enrolled in Applied Music.)		4 [1-4]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc
‡Four semesters of recital attendance are required. No more than forty-five credits of music courses may count toward the degree
***B.A. Music Majors with principle instrument of piano, organ or guitar must refer to the Department for required ensembles.

Literature

MUSC 211	Introduction to Music History	3 [2,3]
MUSC 311	Music History: 1450-1750	3 [2,3]
MUSC 312	Music History: 1715-1825	3 [3,4]
MUSC 313	Music History: 1825 to the Present	3 [3,4]

ELECTIVES

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

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

DEGREE: BACHELOR OF MUSIC
MAJOR: APPLIED MUSIC–INSTRUMENTAL
CONCENTRATION: PRINCIPAL INSTRUMENTS‡‡

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing** ..... 3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content # ..... 3 [1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ..... 3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet (See list of courses approved for second writing requirement, page 68.)

Mathematics:

MATH 114 College Mathematics and Statistics ..... 3 [1]
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115 Pre-Calculus 3
(designed for students who intend to continue the study of mathematics)
or

One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
or
Successful performance on the college proficiency exam

English literature course (200-level – Group A or B) ..... 3 [1-4]
HIST 101 Western Civilization to 1648 ..... 3 [1-4]
HIST 102 Western Civilization: 1648 to the Present ..... 3 [1-4]

Foreign Language

Two semesters of the same modern foreign language ..... 8 [1-4]

Breadth Requirements† (See page 70)

Group A ..... 6 [1-4]
Understanding and appreciation of the creative arts and humanities (This requirement is satisfied by MUSC 195 and 196.)

Group B ..... 15 [1-4]
The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313, HIST 101, and 102.)

Group C ..... 9 [1-4]
Empirically based study of human beings and their environment. Nine credits representing at least two areas.

Group D ..... 6 [1-4]
The study of natural phenomena through experiment and analysis.

MAJOR REQUIREMENTS

Within the Department

Applied Music

MUSC 100 Recital Attendance (six semesters required) ..... 0 [1-3]
MUSC 161 Private Study ..... 4 [1]
MUSC 162 Private Study ..... 4 [1]
MUSC 261 Private Study ..... 4 [2]
MUSC 262 Private Study ..... 4 [2]
MUSC 361 Private Study ..... 4 [3]
MUSC 362 Private Study ..... 4 [3]
MUSC 461 Private Study ..... 4 [4]
MUSC 462 Private Study ..... 4 [4]
MUSC 175 Class Piano: Elementary I ..... 1 [1-4]
MUSC 176 Class Piano: Elementary II ..... 1 [1-4]
MUSC 301 Junior Recital ..... 0 [3,4]
MUSC 401 Senior Recital ..... 0 [4]

Theory

MUSC 185 Ear Training and Sight Singing I ..... 2 [1,2]
MUSC 186 Ear Training and Sight Singing II ..... 2 [1,2]
MUSC 285 Advanced Ear Training and Sight Singing I ..... 2 [2,3]
MUSC 286 Advanced Ear Training and Sight Singing II ..... 2 [2,3]
MUSC 195 Harmony I ..... 3 [1,2]
MUSC 196 Harmony II ..... 3 [1,2]
MUSC 295 Advanced Harmony I ..... 3 [2,3]
MUSC 296 Advanced Harmony II ..... 3 [2,3]
MUSC Theory courses ..... 4-6 [1-4]

Ensemble

Twelve credits selected from the following: ..... 12 [1-4]
MUSC 115 Band, MUSC 116 Jazz Ensemble, MUSC 117 University Orchestra, MUSC 118 Percussion Ensemble, and MUSC 321 Ensemble. (All Ensembles may be repeated.)

Guitarists must complete the following:
MUSC 321 Ensemble: Guitar ..... 8 [1-4]
Two semesters of any departmental ensemble ..... 2 [1,2]

Literature

MUSC 211 Introduction to Music History ..... 3 [2,3]
MUSC 311 Music History: 1450-1750 ..... 3 [2,3]
MUSC 312 Music History: 1715-1825 ..... 3 [3,4]
MUSC 313 Music History: 1825 to the Present ..... 3 [3,4]
Music Elective ..... 3 [1-4]

Music Electives

Excludes private study on primary instrument ..... 7-9 [1-4]
May include two credits of ensemble.

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

DEGREE: BACHELOR OF MUSIC
MAJOR: APPLIED MUSIC–PIANO

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing** ..... 3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content # ..... 3 [1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ..... 3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Mathematics:

MATH 114 College Mathematics and Statistics ..... 3 [1]
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115 Pre-Calculus 3
(designed for students who intend to continue the study of mathematics)
or

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
‡‡The concentration designates the student's principal instrument. A list of instrumental options can be found in the chart on page vi at the front of this catalog, or can be obtained from the Department or the College of Arts and Science Advisement Center.

One of the following:
MATH 221 Calculus I ... 3
MATH 241 Analytic Geometry and Calculus A ... 4
or
Successful performance on the college proficiency exam.

English literature course (200-level – Group A or B) ... 3 [1-4]
HIST 101 Western Civilization to 1648 ... 3 [1-4]
HIST 102 Western Civilization: 1648 to the Present ... 3 [1-4]

Foreign Language
Two semesters of the same modern foreign language ... 8 [1-4]

Breadth Requirements† (See page 70)
Group A ... 6 [1-4]
Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.)

Group B ... 15 [1-4]
The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313, HIST 101, and 102.)

Group C ... 9 [1-4]
Empirically based study of human beings and their environment. Nine credits representing at least two areas.

Group D ... 6 [1-4]
The study of natural phenomena through experiment and analysis.

MAJOR REQUIREMENTS

Within the Department

Applied Music
MUSC 100 Recital Attendance (six semesters required) ... 0 [1-3]
MUSC 161 Private Study ... 4 [1]
MUSC 162 Private Study ... 4 [1]
MUSC 261 Private Study ... 4 [2]
MUSC 262 Private Study ... 4 [2]
MUSC 361 Private Study ... 4 [3]
MUSC 362 Private Study ... 4 [3]
MUSC 461 Private Study ... 4 [4]
MUSC 462 Private Study ... 4 [4]
MUSC 301 Junior Recital ... 0 [3,4]
MUSC 401 Senior Recital ... 0 [4]

Theory
MUSC 185 Ear Training and Sight Singing I ... 2 [1,2]
MUSC 186 Ear Training and Sight Singing II ... 2 [1,2]
MUSC 285 Advanced Ear Training and Sight Singing I ... 2 [2,3]
MUSC 286 Advanced Ear Training and Sight Singing II ... 2 [2,3]
MUSC 195 Harmony I ... 3 [1,2]
MUSC 196 Harmony II ... 3 [1,2]
MUSC 295 Advanced Harmony I ... 3 [2,3]
MUSC 296 Advanced Harmony II ... 3 [2,3]
MUSC 393 Keyboard Harmony ... 2 [3,4]
MUSC 394 Keyboard Harmony ... 2 [3,4]
MUSC Theory courses ... 4-6 [1-4]

Ensemble*
Two semesters of any departmental ensemble ... 2 [1-4]
MUSC 241 Accompanying Chamber Music: Piano ... 1 [1-4]
MUSC 242 Accompanying Chamber Music: Piano ... 1 [1-4]
MUSC 341 Accompanying Chamber Music: Piano ... 1 [1-4]
MUSC 342 Accompanying Chamber Music: Piano ... 1 [1-4]
MUSC 441 Accompanying Chamber Music: Piano ... 1 [1-4]
MUSC 442 Accompanying Chamber Music: Piano ... 1 [1-4]

Literature
MUSC 211 Introduction to Music History ... 3 [2,3]
MUSC 311 Music History: 1450-1750 ... 3 [2,3]
MUSC 312 Music History: 1715-1825 ... 3 [3,4]
MUSC 313 Music History 1825 to the Present ... 3 [3,4]
MUSC 363 Keyboard Literature I ... 3 [3,4]
MUSC 364 Keyboard Literature II ... 3 [3,4]
Music Literature course ... 3 [1-4]

Music Electives
Excludes private study on primary instrument ... 6 [1-4]
May include two credits of ensemble.

CREDITS TO TOTAL A MINIMUM OF 133

DEGREE: BACHELOR OF MUSIC
MAJOR: APPLIED MUSIC–VOICE

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing** ... 3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content # ... 3 [1-4]

COLLEGE REQUIREMENTS

Skill Requirements
Writing:* ... 3 [3,4]
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Mathematics:
MATH 114 College Mathematics and Statistics ... 3 [1]
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115 Pre-Calculus ... 3
(designed for students who intend to continue the study of mathematics)
or
One of the following:
MATH 221 Calculus I ... 3
MATH 241 Analytic Geometry and Calculus A ... 4
or
Successful performance on the college proficiency exam.

HIST 102 Western Civilization: 1648 to the Present ... 3 [1-4]
Languages courses (French, German and Italian) ... 24 [1-4]
THEA 226 Acting I ... 3 [1-4]

Breadth Requirements† (See page 70)
Group A ... 6 [1-4]
Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.)

Group B ... 12 [1-4]
The study of culture and institutions over time. Twelve credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313 and HIST 102.)

Group C ... 6 [1-4]
Empirically based study of human beings and their environment. Six credits representing at least two areas.

Group D ... 3 [1-4]
The study of natural phenomena through experiment and analysis.

MAJOR REQUIREMENTS

Within the Department

Applied Music
MUSC 100 Recital Attendance (six semesters required) ... 0 [1-3]
MUSC 161 Private Study ... 4 [1]
MUSC 162 Private Study ... 4 [1]
MUSC 261 Private Study ... 4 [2]
MUSC 262 Private Study ... 4 [2]
MUSC 361 Private Study ... 4 [3]
MUSC 362 Private Study ... 4 [3]
MUSC 461 Private Study ... 4 [4]
MUSC 462 Private Study ... 4 [4]
MUSC 175 Class Piano: Elementary I ... 1 [1,2]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
***B.M. Applied Music – Piano majors must take MUSC 241, 242, 341, 342, 441, and 442 (Accompanying Chamber Music: Piano) plus two semesters of any ensemble offered in the Department of Music

MUSC 176	Class Piano: Elementary II	1 [1,2]
MUSC 275	Class Piano: Intermediate I	1 [2,3]
MUSC 276	Class Piano: Intermediate II	1 [2,3]
MUSC 301	Junior Recital	0 [3]
MUSC 401	Senior Recital	0 [4]

Theory

MUSC 185	Ear Training and Sight Singing I	2 [1,2]
MUSC 186	Ear Training and Sight Singing II	2 [1,2]
MUSC 285	Advanced Ear Training and Sight Singing I	2 [2,3]
MUSC 286	Advanced Ear Training and Sight Singing II	2 [2,3]
MUSC 195	Harmony I	3 [1,2]
MUSC 196	Harmony II	3 [1,2]
MUSC 295	Advanced Harmony I	3 [2,3]
MUSC 296	Advanced Harmony II	3 [2,3]

Ensemble

MUSC 108	University Singers	8 [1-4]
or		
MUSC 109	Choral Union	8 [1-4]
or		
MUSC 110	Choral	8 [1-4]

Literature

MUSC 211	Introduction to Music History	3 [2,3]
MUSC 311	Music History: 1450-1750	3 [2,3]
MUSC 312	Music History: 1715-1825	3 [3,4]
MUSC 313	Music History: 1825 to the Present	3 [3,4]

Related Music Studies

MUSC 171	Diction: English and Italian	1 [1]
MUSC 271	Diction: German	1 [2]
MUSC 272	Diction: French	1 [2]
MUSC 489	Opera Workshop	1 [1-4]

Music Electives

Nine credits from the following: (including four credits from MUSC 327, 427 and/or 428)		9 [1-4]
MUSC 103	Introduction to Opera	3
MUSC 327	German Lieder	2
MUSC 335	Basic Conducting	2
MUSC 395	Form Analysis	3
MUSC 397	Contemporary Harmony	3
MUSC 427	French Art Song	2
MUSC 428	Twentieth-Century Art Song	2
MUSC 480	Vocal Pedagogy	3

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 134

DEGREE: BACHELOR OF MUSIC
MAJOR: MUSIC EDUCATION–INSTRUMENTAL
CONCENTRATION: PRINCIPAL INSTRUMENT‡‡

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #		3 [1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ..... 3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Mathematics:

MATH 114	College Mathematics and Statistics	3 [1]
(designed for students who do not intend to continue the study of mathematics)		
or		
MATH 115	Pre-Calculus	3
(designed for students who intend to continue the study of mathematics)		
or		
One of the following:		
MATH 221	Calculus I	3
MATH 241	Analytic Geometry and Calculus A	4
or		
Successful performance on the college proficiency exam		

Breadth Requirements† (See page 70)

Art or Art History course, to be selected from Group A or B ..... 3 [1-4]

Group A ..... 9 [1-4]

Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two departments. (This requirement is partially satisfied by MUSC 195 and 196.)

Group B ..... 9 [1-4]

The study of culture and institutions over time. (MUSC 311, 312, and 313 count toward completion of this requirement.)

Group C ..... 9 [1-4]

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

Group D ..... 4 [1-4]

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

MAJOR REQUIREMENTS

Within the Department

Applied Music

MUSC 100	Recital Attendance (six semesters required)	0 [1-3]
MUSC 161	Private Study	2 [1]
MUSC 162	Private Study	2 [1]
MUSC 261	Private Study	2 [2]
MUSC 262	Private Study	2 [2]
MUSC 361	Private Study	2 [3]
MUSC 362	Private Study	2 [3]
MUSC 461	Private Study	2 [4]
MUSC 175	Class Piano: Elementary I	1 [1-3]
MUSC 176	Class Piano: Elementary II	1 [1-4]
MUSC 174	Class Voice: Beginning	1 [1-3]
MUSC 301	Junior Recital	0 [3,4]

Theory

MUSC 185	Ear Training and Sight Singing I	2 [1,2]
MUSC 186	Ear Training and Sight Singing II	2 [1,2]
MUSC 285	Advanced Ear Training and Sight Singing I	2 [2,3]
MUSC 286	Advanced Ear Training and Sight Singing II	2 [2,3]
MUSC 195	Harmony I	3 [1,2]
MUSC 196	Harmony II	3 [1,2]
MUSC 295	Advanced Harmony I	3 [2,3]
MUSC 296	Advanced Harmony II	3 [2,3]
MUSC 331	Orchestration	2 [3,4]

Ensemble

MUSC 115	Band	7 [1-4]

Literature

MUSC 211	Introduction to Music History	3 [2,3]
MUSC 311	Music History: 1450-1750	3 [2,3]
MUSC 312	Music History: 1715-1825	3 [3,4]
MUSC 313	Music History: 1825 to the Present	3 [3,4]

Secondary Instruments

MUSC 214	Stringed Instruments Class	1 [1-3]
MUSC 215	High Brass Instruments Class	1 [1-3]
MUSC 216	Low Brass Instruments Class	1 [1-3]
MUSC 217	Woodwind Instruments Class I	1 [1-4]
MUSC 218	Woodwind Instruments Class II	1 [1-3]
MUSC 219	Percussion Instruments	1 [1-3]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
‡‡The concentration designates the student's principal instrument. A list of instrumental options can be found in the chart on page vi at the front of this catalog, or can be obtained from the Department or the College of Arts and Science Advisement Center.

Music Methods

MUSC 335	Basic Conducting	2[3]
MUED 279	Practicum in Music Education	3[2]
MUED 337	Instrumental Conducting	2[3,4]
MUED 379	Music in the Elementary and Junior High (or Middle) School	3[3]
MUED 479	Secondary Music Materials and Approaches	3[4]

Music Electives

Six music electives excluding ensemble and private study on primary instrument ..... 6[1-4]

Professional Studies

Education

EDST 201	Education in a Multicultural Society	3[1-4]
EDST 304	Educational Psychology – Social Aspects	3[1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3[3-4]
EDDV 400	Student Teaching	9[4]

The Music Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

CREDITS TO TOTAL A MINIMUM OF 126

DEGREE: BACHELOR OF MUSIC
MAJOR: MUSIC EDUCATION—GENERAL/CHORAL
CONCENTRATION: PIANO

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3[1]

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content # ..... 3[1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ..... 3[3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Mathematics:

MATH 114 College Mathematics and Statistics ..... 3[1]
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115 Pre-Calculus 3
(designed for students who intend to continue the study of mathematics)
or
One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
or
Successful performance on the college proficiency exam.

Breadth Requirements† (See page 70)

Art or Art History course, to be selected from Group A or B ..... 3[1-4]

Group A ..... 9[1-4]

Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas. (This requirement is partially satisfied by MUSC 195 and 196.)

Group B ..... 9[1-4]

The study of culture and institutions over time. (MUSC 311, 312, and 313 count toward completion of this requirement.)

Group C ..... 9[1-4]

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

Group D ..... 4[1-4]

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

MAJOR REQUIREMENTS

Within the Department

Applied Music

MUSC 100	Recital Attendance (six semesters required)	0[1-3]
MUSC 161	Private Study	2[1]
MUSC 162	Private Study	2[1]
MUSC 261	Private Study	2[2]
MUSC 262	Private Study	2[2]
MUSC 361	Private Study	2[3]
MUSC 362	Private Study	2[3]
MUSC 461	Private Study	2[4]
MUSC 174	Class Voice: Beginning	1[1-4]
MUSC 274	Class Voice: Advanced	1[1-4]
MUSC 480	Vocal Pedagogy	3[3,4]
MUSC 171	Diction: English and Italian	1[1]
MUSC 271	Diction: German	1[2]
MUSC 272	Diction: French	1[2]
MUSC 301	Junior Recital	0[3,4]

Theory

MUSC 185	Ear Training and Sight Singing I	2[1,2]
MUSC 186	Ear Training and Sight Singing II	2[1,2]
MUSC 285	Advanced Ear Training and Sight Singing I	2[2,3]
MUSC 286	Advanced Ear Training and Sight Singing II	2[2,3]
MUSC 195	Harmony I	3[1,2]
MUSC 196	Harmony II	3[1,2]
MUSC 295	Advanced Harmony I	3[2,3]
MUSC 296	Advanced Harmony II	3[2,3]
MUSC 397	Contemporary Harmony	3[3,4]

Ensemble

MUSC 108	University Singers	8[1-4]
or		
MUSC 109	Choral Union	8[1-4]
or		
MUSC 110	Choral	8[1-4]

Literature

MUSC 211	Introduction to Music History	3[2,3]
MUSC 311	Music History: 1450-1750	3[2,3]
MUSC 312	Music History: 1715-1825	3[3,4]
MUSC 313	Music History: 1825 to the Present	3[3,4]
MUSC 328	Choral Literature	3[3,4]

Secondary Instruments

MUSC 214	Stringed Instruments Class	1[1-4]
MUSC 215	High Brass Instruments Class	1[1-4]
or		
MUSC 217	Woodwind Instruments Class I	1

Music Methods

MUSC 335	Basic Conducting	2[3]
MUED 279	Practicum in Music Education	3[2]
MUED 336	Choral Conducting	2[3,4]
MUED 379	Music in the Elementary and Junior High (or Middle) School	3[3,4]
MUED 479	Secondary Music Materials and Approaches	3[3,4]

Music Electives

Three credits of music electives excluding ensemble and private study on primary instrument (MUSC 407 recommended) ..... 3[1-4]

Professional Studies

Education

EDST 201	Education in a Multicultural Society	3[1-4]
EDST 304	Educational Psychology – Social Aspects	3[1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3[3-4]
EDDV 400	Student Teaching	9[4]

The Music Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

CREDITS TO TOTAL A MINIMUM OF 128

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.

DEGREE: BACHELOR OF MUSIC
MAJOR: MUSIC EDUCATION—GENERAL/CHORAL
CONCENTRATION: VOICE

CURRICULUM		CREDITS*
UNIVERSITY REQUIREMENTS		
ENGL 110	Critical Reading and Writing**	3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #		3 [1-4]
COLLEGE REQUIREMENTS		
Skill Requirements		
Writing:*		3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Mathematics:		
MATH 114	College Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3 [1]
or		
MATH 115	Pre-Calculus (designed for students who intend to continue the study of mathematics)	3
or		
One of the following:		
MATH 221	Calculus I	3
MATH 241	Analytic Geometry and Calculus A	4
or		
Successful performance on the college proficiency exam.		
Breadth Requirements† (See page 70)		
Art or Art History course, to be selected from Group A or B		3 [1-4]
Group A		9 [1-4]

Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas. (This requirement is partially satisfied by MUSC 195 and 196.)

Group B		9 [1-4]

The study of culture and institutions over time. (MUSC 311, 312, and 313 count toward completion of this requirement.)

Group C		9 [1-4]

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

Group D		4 [1-4]

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

MAJOR REQUIREMENTS

Within the Department

Applied Music		
MUSC 100	Recital Attendance (six semesters required)	0 [1-3]
MUSC 161	Private Study	2 [1]
MUSC 162	Private Study	2 [1]
MUSC 261	Private Study	2 [2]
MUSC 262	Private Study	2 [2]
MUSC 361	Private Study	2 [3]
MUSC 362	Private Study	2 [3]
MUSC 461	Private Study	2 [4]
MUSC 175	Class Piano: Elementary I	1 [2]
MUSC 176	Class Piano: Elementary II	1 [2,3]
MUSC 275	Class Piano: Intermediate I	1 [2,3]
MUSC 276	Class Piano: Intermediate II	1 [3,4]
MUSC 171	Diction: English and Italian	1 [1]
MUSC 271	Diction: German	1 [2]
MUSC 272	Diction: French	1 [2]
MUSC 480	Vocal Pedagogy	3 [1-4]
MUSC 301	Junior Recital	0 [3,4]
Theory		
MUSC 185	Ear Training and Sight Singing I	2 [1,2]
MUSC 186	Ear Training and Sight Singing II	2 [1,2]
MUSC 285	Advanced Ear Training and Sight Singing I	2 [2,3]
MUSC 286	Advanced Ear Training and Sight Singing II	2 [2,3]
MUSC 195	Harmony I	3 [1,2]
MUSC 196	Harmony II	3 [1,2]
MUSC 295	Advanced Harmony I	3 [2,3]
MUSC 296	Advanced Harmony II	3 [2,3]
MUSC 397	Contemporary Harmony	3 [3,4]
Ensemble		
MUSC 108	University Singers	8 [1-4]
or		
MUSC 109	Choral Union	8 [1-4]
or		
MUSC 110	Choral	8 [1-4]
Literature		
MUSC 211	Introduction to Music History	3 [2,3]
MUSC 311	Music History: 1450-1750	3 [2,3]
MUSC 312	Music History: 1715-1825	3 [3,4]
MUSC 313	Music History: 1825 to the Present	3 [3,4]
MUSC 328	Choral Literature	3 [3]
Secondary Instruments		
MUSC 214	Stringed Instruments Class	1 [1-4]
MUSC 215	High Brass Instruments Class	1 [1-4]
or		
MUSC 217	Woodwind Instruments Class I	1 [1-4]
Music Methods		
MUSC 335	Basic Conducting	2 [3]
MUED 279	Practicum in Music Education	3 [2]
MUED 336	Choral Conducting	2 [3,4]
MUED 379	Music in the Elementary and Junior High (or Middle) School	3 [3]
MUED 479	Secondary Music Materials and Approaches	3 [4]
Music Electives		
Three credits of music electives excluding ensemble and private study on primary instrument. (MUSC 407 recommended)		3 [1-4]

Professional Studies

Education		
EDST 201	Education in a Multicultural Society	3 [2-4]
EDST 304	Educational Psychology – Social Aspects	3 [3-4]
EDST 305	Educational Psychology – Cognitive Aspects	3 [3-4]
EDDV 400	Student Teaching	9 [4]

The Music Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

CREDITS TO TOTAL A MINIMUM OF 130

DEGREE: BACHELOR OF MUSIC
MAJOR: THEORY/COMPOSITION
CONCENTRATIONS: THEORY/COMPOSITION

CURRICULUM		CREDITS*
UNIVERSITY REQUIREMENTS		
ENGL 110	Critical Reading and Writing**	3 [1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #		3 [1-4]
COLLEGE REQUIREMENTS		
Skill Requirements		
Writing:*		3 [3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.

Mathematics:

MATH 114 College Mathematics and Statistics ..... 3 [1]
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115 Pre-Calculus 3
(designed for students who intend to continue the study of mathematics)
or
One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
or
Successful performance on the college proficiency exam.

Modern Languages

Twelve credits in one of the following: French, German or Italian ..... 12 [1-4]
HIST 101 Western Civilization to 1648 ..... 3 [1-4]
HIST 102 Western Civilization 1648 to the Present ..... 3 [1-4]

Breadth Requirements† (See page 68)

Two 200-level or higher English literature courses selected from Group A or B ..... 6 [1-4]

Group A ..... 6 [1-4]
Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.)

Group B ..... 15 [1-4]
The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313, HIST 101, and 102.)

Group C ..... 9 [1-4]
Empirically based study of human beings and their environment. Nine credits representing at least two areas.

Group D ..... 9 [1-4]
The study of natural phenomena through experiment and analysis. Nine credits in at least two areas

MAJOR REQUIREMENTS

Within the Department

Applied Music

MUSC 100 Recital Attendance (six semesters required) ..... 0 [1-3]
MUSC 175 Class Piano: Elementary I ..... 1 [1,2]
MUSC 176 Class Piano: Elementary II ..... 1 [1,2]
MUSC 275 Class Piano: Intermediate I ..... 1 [2,3]
MUSC 276 Class Piano: Intermediate II ..... 1 [2,3]

Secondary Instruments and Conducting

MUSC 214 Stringed Instruments Class ..... 1 [1-4]
MUSC 215 High Brass Instruments Class ..... 1 [1-4]
MUSC 217 Woodwind Instruments Class I ..... 1 [1-4]
MUSC 219 Percussion Instruments ..... 1 [1-4]
MUSC 335 Basic Conducting ..... 2 [1-4]

Theory

MUSC 185 Ear Training and Sight Singing I ..... 2 [1,2]
MUSC 186 Ear Training and Sight Singing II ..... 2 [1,2]
MUSC 285 Advanced Ear Training and Sight Singing I ..... 2 [2,3]
MUSC 286 Advanced Ear Training and Sight Singing II ..... 2 [2,3]
MUSC 195 Harmony I ..... 3 [1,2]
MUSC 196 Harmony II ..... 3 [1,2]
MUSC 295 Advanced Harmony I ..... 3 [2,3]
MUSC 296 Advanced Harmony II ..... 3 [2,3]
MUSC 287 Music Technology ..... 3 [1-4]
MUSC 331 Orchestration ..... 2 [3,4]
MUSC 392 Contrapuntal Writing ..... 2 [3,4]
MUSC 393 Keyboard Harmony I ..... 2 [3,4]
MUSC 394 Keyboard Harmony II ..... 2 [3,4]
MUSC 395 Form Analysis ..... 3 [3,4]
MUSC 397 Contemporary Harmony ..... 3 [3,4]

Theory Concentration

MUSC 485 Pedagogy of Theory ..... 3 [4]
MUSC 420 Advanced Composition ..... 3 [4]
MUSC 420 Advanced Composition ..... 3 [4]
or
MUSC Theory, literature or applied music elective ..... 3 [4]
MUSC 421 Special Projects in Music Theory ..... 3 [4]

Composition Concentration

MUSC 485 Pedagogy of Theory ..... 3 [4]
MUSC 420 Advanced Composition ..... 3 [3,4]
MUSC 420 Advanced Composition ..... 3 [4]
MUSC 420 Advanced Composition ..... 3 [4]

Literature

MUSC 211 Introduction to Music History ..... 3 [2,3]
MUSC 311 Music History: 1450-1750 ..... 3 [2,3]
MUSC 312 Music History: 1715-1825 ..... 3 [3,4]
MUSC 313 Music History: 1825 to the Present ..... 3 [3,4]
MUSC 407 Twentieth-Century Music ..... 3 [3,4]

Ensemble

A variety of ensembles are recommended, including Chamber ensembles ..... 4 [1-4]

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‡‡

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

	CREDITS
Class Piano*** MUSC 175	1
Applied Music**** MUSC 161, 162, 261, 262	8
Ensemble‡	4
Theory/Composition – MUSC 185 and 195	5
Music Literature/History (MUSC 101 and 102 do not fulfill this requirement. Any other music history course will do.)	3
Total Credits	**21** (For Piano minors 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:

	CREDITS
Jazz Styles/Tech MUSC 181 and 281	4
Ensemble MUSC 116 (four semesters), MUSC 321	5
Jazz Improvisation MUSC 293 and 294	6
Harmony and History MUSC 197 and 207	6
Total Credits	**21**

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

†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation
***Not required of persons minoring in Applied Music–Piano
****Lessons will be 1/2 hour per week and will include a repertory class
‡Ensemble and private study must be taken concurrently (See Ensemble Policy in the Department of Music Student Handbook) Music Minors with principal instrument of piano, organ or guitar must refer to the Department for required ensembles.
‡‡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 viii in the front of this catalog, or can be obtained from the Department or the College of Arts and Science Advisement Center.

of music. No audition is required for admission into the Musical Studies minor. The requirements are:

		CREDITS
MUSC 185	Ear Training and Sight Singing I	2
MUSC 195	Harmony I	3
MUSC 211	Introduction to Music History	3
MUSC 311	Music History: 400 - 1600	3
or		
MUSC 312	Music History: 1600 - 1827	
or		
MUSC 313	Music History: 1825 to Present	
MUSC Ensemble		2
MUSC History/Literature Elective (MUSC 101 and 102 do not fulfill this requirement. Any other music history course will do.)		3
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.

The American Philosophical Association's national headquarters is on the Delaware campus.

DEGREE: BACHELOR OF ARTS
MAJOR: PHILOSOPHY

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
PHIL 105	Critical Thinking	3
or		
PHIL 205	Logic	3
PHIL 201	Social and Political Philosophy	3
or		
PHIL 203	Ethics	3
PHIL 301	Ancient Philosophy	3
PHIL 303	Modern Philosophy	3
PHIL 305	Twentieth Century Philosophy	3
or		
PHIL 320	Theory of Knowledge	3
PHIL 465	Senior Seminar	3
Six additional Philosophy credits at the 300-level or above		6
Six additional Philosophy elective credits		6
The student's program must include six hours of multicultural courses, selected in consultation with the advisor, from suitable courses in Philosophy, Black American, Women's, Jewish, Oriental, Latin American or African Studies. The six hours may include courses in Philosophy which count toward completing the major requirements for the degree.		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

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

PHYSICS AND ASTRONOMY

The Department of Physics and Astronomy maintains a balanced program of instruction at all levels from elementary physics through the doctoral degree, 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.

DEGREE: BACHELOR OF ARTS
MAJOR: PHYSICS

CURRICULUM		CREDITS*
See page 68 for University and College requirements. Note: MATH 241 Analytical Geometry and Calculus A satisfies the Mathematics Skills College requirement and is strongly recommended as the first math course for physics majors, unless the placement exam suggests differently.		
MAJOR REQUIREMENTS		
Within the Department§		
PHYS 207	Fundamentals of Physics I (strongly recommended)	4[1]
or		
PHYS 201	Introductory Physics I	4
PHYS 208	Fundamentals of Physics II (strongly recommended)	4[1,2]
or		
PHYS 202	Introductory Physics II	4
Twenty-two credits in Physics, of which fifteen must be at the 300-level or higher.		22[2-4]
Within the College		
MATH 241	Analytic Geometry and Calculus A (recommended)	4[1]
MATH 242	Analytic Geometry and Calculus B	4[1,2]
MATH 243	Analytic Geometry and Calculus C	4[2]
or		
MATH 221	Calculus I	3
MATH 222	Calculus II	3

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.

§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.

ELECTIVES

After required 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** ..... 3[1]

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content # ..... 3[1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ..... 3[3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Foreign Language: ..... 0-12[1-4]

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

Breadth Requirements† (See page 70)

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. ..... 21[1-4]

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§

PHYS 207	Fundamentals of Physics I	4[1]
PHYS 208	Fundamentals of Physics II	4[2]
PHYS 209	Fundamentals of Physics III	3[2]
PHYS 313	Physical Optics	4[2]
PHYS 419	Classical Mechanics I	3[3]
PHYS 603	Electricity and Magneticism I	3[4]
PHYS 604	Electricity and Magneticism II	3[4]
PHYS 616	Kinetic Theory and Thermodynamics	3[3,4]
PHYS 617	Atomic and Nuclear Physics Laboratory	1[3,4]
PHYS 618	Atomic and Nuclear Physics Laboratory	1[3,4]
PHYS 620	Classical Mechanics II	3[3]
PHYS 621	Fundamentals of Modern Physics I	3[3,4]
PHYS 622	Fundamentals of Modern Physics II	3[3,4]
PHYS 645	Electronics for Scientists	3[3]
PHYS 646	Instrumentation for Scientists	3[3]

Within the College

Mathematics:

MATH 241	Analytic Geometry and Calculus A	4[1]
MATH 242	Analytic Geometry and Calculus B	4[1,2]
MATH 243	Analytic Geometry and Calculus C	4[3]
MATH 302	Ordinary Differential Equations	3[2]
MATH 503	Advanced Calculus for Applications	3[3]

One of the following three courses:

MATH 349	Elementary Linear Algebra	3
MATH 508	Introduction to Complex Variables and Application	3[3,4]
MATH 514	Topics in Advanced Mathematics for Engineers	3

Natural Science

CHEM 103	General Chemistry	4[1-3]
CHEM 104	General Chemistry	4[1-3]

ELECTIVES

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

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: PHYSICS
CONCENTRATION: ASTRONOMY

CURRICULUM — CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing** ..... 3[1]

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content # ..... 3[1-4]

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* ..... 3[3,4]

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Foreign Language: ..... 0-12[1-4]

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

Breadth Requirements† (See page 70)

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. ..... 21[1-4]

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§

PHYS 207	Fundamentals of Physics I	4[1]
PHYS 208	Fundamentals of Physics II	4[1,2]
PHYS 209	Fundamentals of Physics III	3[2]
PHYS 313	Physical Optics	4[2]
PHYS 419	Classical Mechanics I	3[3]
PHYS 620	Classical Mechanics II	3[3]
PHYS 603	Electricity and Magnetism I	3[4]
or		
PHYS 645	Electronics for Scientists	3[3]
PHYS 604	Electricity and Magnetism II	3[4]
or		
PHYS 646	Instrumentation for Scientists	3[3]
PHYS 621	Fundamentals of Modern Physics I	3[4]
PHYS 622	Fundamentals of Modern Physics II	3[4]
PHYS 616	Kinetic Theory and Thermodynamics	3[4]
PHYS 133	Introduction to Astronomy	4[1,2]
PHYS 134	Introduction to Astronomy	4[1,2]

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.

**Minimum grade of C- required.

#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.

†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.

§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 449	Introduction to Research	3 3,4
Six credits of Astronomy courses above the 200-level		6 1-4
Two credits of Physics or Mathematics electives above the 200-level		2 1-4

Within the College

Mathematics:

MATH 241	Analytic Geometry and Calculus A	4 1
MATH 242	Analytic Geometry and Calculus B	4 1,2
MATH 243	Analytic Geometry and Calculus C	4 2
MATH 302	Ordinary Differential Equations	3 2
MATH 503	Advanced Calculus for Applications	3 2,3

ELECTIVES

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

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: PHYSICS
CONCENTRATION: CHEMICAL PHYSICS

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3 1
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.#		3 1-4

COLLEGE REQUIREMENTS

Skill Requirements

Writing:* 3 3,4

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Foreign Language: 0-12 1-4

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

Breadth Requirements† (See page 70)

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. 21 1-4

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§

PHYS 207	Fundamentals of Physics I	4 1
PHYS 208	Fundamentals of Physics II	4 2
PHYS 209	Fundamentals of Physics III	3 2
PHYS 419	Classical Mechanics I	3 3
PHYS 620	Classical Mechanics II	3 3
PHYS 603	Electricity and Magnetism I	3 3,4
PHYS 645	Electronics for Scientists	3 3
PHYS 646	Instrumentation for Scientists	3 3
PHYS 621	Fundamentals of Modern Physics I	3 3,4
PHYS 622	Fundamentals of Modern Physics II	3 3,4
PHYS 616	Kinetic Theory and Thermodynamics	3 3,4

Within the College

Mathematics:

MATH 241	Analytic Geometry and Calculus A	4 1
MATH 242	Analytic Geometry and Calculus B	4 1
MATH 243	Analytic Geometry and Calculus C	4 2
MATH 302	Ordinary Differential Equations	3 2
MATH 503	Advanced Calculus for Applications	3 3,4

Natural Science

CHEM 103	General Chemistry	4 1
CHEM 104	General Chemistry	4 1
CHEM 321	Organic Chemistry	4 2-4
CHEM 322	Organic Chemistry	4 2-4
CHEM 457	Inorganic Chemistry	3 2-4

ELECTIVES

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

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: PHYSICS
CONCENTRATION: APPLIED PHYSICS

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing**	3 1
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.#		3 1-4

COLLEGE REQUIREMENTS

Skill Requirement

Writing:* 3 3,4

A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)

Breadth Requirements† (See page 70)

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. 21 1-4

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§

PHYS 207	Fundamentals of Physics I	4 1
PHYS 208	Fundamentals of Physics II	4 1
PHYS 209	Fundamentals of Physics III	3 2
PHYS 313	Physical Optics	4 2
PHYS 419	Classical Mechanics I	3 3
PHYS 645	Electronics for Scientists	3 3
PHYS 646	Instrumentation for Scientists	3 3
PHYS 621	Fundamentals of Modern Physics I	3 3,4
PHYS 622	Fundamentals of Modern Physics II	3 3,4
PHYS 616	Kinetic Theory and Thermodynamics	3 3,4
PHYS 627	Advanced Laboratory Techniques	3 3,4
PHYS 617	Atomic and Nuclear Physics Laboratory	1 3
PHYS 618	Atomic and Nuclear Physics I Laboratory	1 4

*Superior figures indicate year or years in which the course is normally taken, i.e., 1freshman year, 2sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation.
§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.

Within the College

Mathematics:

MATH 241	Analytic Geometry and Calculus A	4[1]
MATH 242	Analytic Geometry and Calculus B	4[1]
MATH 243	Analytic Geometry and Calculus C	4[2]
MATH 302	Ordinary Differential Equations	3[2,3]

One of the following four courses:

MATH 349	Elementary Linear Algebra	3[2]
MATH 503	Advanced Calculus for Applications	3[2]
MATH 508	Introduction to Complex Variables and Applications	3[2]
MATH 514	Topics in Advanced Mathematics for Engineers	3[2]

Natural Science

CHEM 103	General Chemistry	4[1-3]
CHEM 104	General Chemistry	4[1-3]

Computer Science

CISC 105	General Computer Science	3[1,2]

External to the College

ELEG 205	Linear Circuit Theory I	4[2]
ELEG 309	Electronic Circuit Analysis I	4[2,3]

ELECTIVES

Technical Electives

Nine additional credits of technical engineering or computer science courses. 9[3,4]

Electives

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: PHYSICS EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements. Note: MATH 241 Analytical Geometry and Calculus A satisfies the Mathematics Skills College requirement and is strongly recommended as the first math course for physics education majors, unless the placement exam suggests differently.

MAJOR REQUIREMENTS

Within the Department

PHYS 207	Fundamentals of Physics I	4[1]
PHYS 208	Fundamentals of Physics II	4[1,2]
PHYS 209	Fundamentals of Physics III	3[2]

Nineteen credits, fifteen of which must be at the 300-level or higher. 19[1-4]

Within the College

MATH 241	Analytic Geometry and Calculus A	4[1]
MATH 242	Analytic Geometry and Calculus B	4[1]
MATH 243	Analytic Geometry and Calculus C	4[2]
CHEM 103	General Chemistry	4[1,2]
CHEM 104	General Chemistry	4[1,2]

Professional Studies

EDST 201	Education in a Multicultural Society	3[1-4]
EDST 304	Educational Psychology – Social Aspects	3[1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3[1-4]
SCEN 491	Teaching Science in Secondary Schools	4[4]
EDST 420	Reading in the Content Areas	1[1-4]
EDDV 400	Student Teaching	9[4]

The Physics Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

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

BACHELOR OF SCIENCE DEGREE IN GEOPHYSICS

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

REQUIREMENTS FOR A MINOR IN PHYSICS

Students in other departments can receive credit for work in physics by means of a physics minor, consisting of PHYS 207-208 plus 9 credits from PHYS courses at or above the 300-level. Students considering minoring in physics should consult the physics associate chair for advice or prerequisites for these courses and for assignment to an adviser.

POLITICAL SCIENCE

A major in political science provides liberal arts students with opportunities to acquire a broad education that will equip them to adapt to a wide variety of careers. The program for majors encourages students to analyze the theories, institutions, and processes of political systems in the context provided by the social sciences; exposes students to the broad sweep of political science as a discipline; encourages a continuing and responsible interest in political activity and public affairs; provides students with a fundamental understanding of political science as a basis for citizenship, a career in government, business, journalism, law, or professional study or service; and stimulates the qualified student's interest in graduate study in political science.

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

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: POLITICAL SCIENCE

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

POSC 105	The American Political System	3[1-4]

Eighteen credits distributed as follows: 18[1-4]

Nine credits from courses at the 400-level; nine credits from courses at the 300 or 400-level.

A student must take at least one course numbered at the 300 or 400-level in four of the five fields listed below:

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

Political Science courses 9[1-4]

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

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

POSC 105	The American Political System	3^{1-4}
Eighteen credits distributed as follows: Nine credits from courses at the 400-level; nine credits from courses at the 300 or 400-level		18^{1-4}

A student must take at least one course numbered at the 300 or 400-level in four of the five fields listed below:
- a American Government and Politics
- b Comparative Government and Politics
- c International Relations
- d Public Administration and Public Policy
- e Political Theory

Political Science courses including POSC 302 Research Methods (Recommended)		9^{1-4}

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

Within the College

Twenty-four credits in the following social sciences with at least three credits in each department		24^{1-4}
Anthropology course		3
Economics course		3
Geography course		3
History course		3
Sociology course		3
PSYC 201	General Psychology	3^{1-4}
Six additional credits selected from the departments listed above		6^{1-4}

Professional Studies

EDST 201	Education in a Multicultural Society	3^{1-4}
EDST 304	Educational Psychology – Social Aspects	3^{1-4}
EDST 305	Educational Psychology – Cognitive Aspects	3^{1-4}
HIST 491	Planning a Course of Instruction	3^{4}
HIST 493	Seminar: Problems in Teaching History and Social Sciences	3^{4}
EDST 420	Reading in the Content Areas	1^{1-4}
EDDV 400	Student Teaching	9^{4}

The Political Science Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

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

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

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS†

Within the Department of Political Science and International Relations

POSC 105	The American Political System (or other required intro courses)	3
POSC 240	Introduction to International Relations	3
POSC 270	Comparative Politics	3
POSC 310	European Governments	3
POSC 441	Problems of Western European Politics by Country	3
or		
POSC 442	Problems of Western European Politics	3
3 additional courses at the 300 or 400-level with at least 2 at the 400-level and at least 2 in the area of International Relations		9

Within the Department of Foreign Languages and Literatures

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

French

FREN 2xx, 3xx, 4xx‡	6
FREN 3xx, 4xx	12
FREN 4xx (literature)‡‡	3

German

GRMN 2xx, 3xx, 4xx‡	6
GRMN 3xx, 4xx	12
GRMN 4xx (literature)‡‡	3

Spanish

SPAN 2xx, 3xx, 4xx‡	6
SPAN 3xx, 4xx	12
SPAN 4xx (literature)‡‡	3

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

Political Science

POSC 441

French

FREN 306 or FREN 406
FREN 308
FREN 355 or FREN 455
HIST 339

German

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

Spanish

SPAN 306 or SPAN 406
SPAN 308
SPAN 355 or SPAN 455
HIST 339

ELECTIVES

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

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

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

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.

*Superior figures indicate year or years in which the course is normally taken, i.e., ^{1}freshman year, ^{2}sophomore year, etc.
†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.
‡Must be completed prior to leaving for the semester abroad. (FREN 255, GRMN 255 and SPAN 255 are recommended for French, German or Spanish majors, respectively.)
‡‡This 400-level literature course must be taken on the Newark Campus

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.

PSYCHOLOGY

Psychology is a biological, behavioral, social, and applied science, whose theories are integral to an understanding of ourselves and our place in the world.

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

In addition to a B.A. degree with a major in psychology, an interdepartmental major between psychology and biology with an emphasis on neuroscience is also available. Students first learn the fundamentals of biology and psychology and then concentrate on courses that examine the structure and function of the nervous system and its relationship to behavior. Detailed instructions regarding an interdepartmental major are available from the Department or the Arts and Science Advisement Center and Dean's Office.

DEGREE: BACHELOR OF ARTS
MAJOR: PSYCHOLOGY

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
PSYC 201	General Psychology	3 [1]
PSYC 309	Measurement and Statistics‡	3 [1-2]
PSYC 415	History and Systems of Psychology‡‡‡	3 [4]
One of the following four courses:		
PSYC 301	Personality‡≠	3 [1-2]
PSYC 303	Introduction to Social Psychology‡≠	3
PSYC 325	Child Psychology‡≠	3
PSYC 334	Abnormal Psychology‡≠	3
One of the following four courses:≠		
PSYC 350	Developmental Psychology‡‡≠	3 [2-3]
PSYC 370	Research in Personality‡‡≠	3
PSYC 380	Psychopathology‡‡≠	3
PSYC 390	Social Psychology‡‡≠	3
Two of the following four courses:		
PSYC 310	Sensation and Perception‡‡	3 [2-3]
PSYC 312	Learning and Motivation‡‡	3
PSYC 314	Brain and Behavior‡	3
PSYC 340	Cognition‡‡	3
Two courses at or above the 400-level; however, PSYC 466 and 468 may not be used to fulfill this requirement		6 [1-4]
Three credits of any Psychology course (except PSYC 301, 303, 325 and 334)		3 [2-4]

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF ARTS
MAJOR: PSYCHOLOGY EDUCATION

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
PSYC 201	General Psychology	3 [1]
PSYC 309	Measurement and Statistics‡	3 [1-2]
PSYC 415	History and Systems of Psychology‡‡‡	3 [4]
One of the following four courses:		
PSYC 301	Personality‡≠	3 [1-2]
PSYC 303	Introduction to Social Psychology‡≠	3
PSYC 325	Child Psychology‡≠	3
PSYC 334	Abnormal Psychology‡≠	3
One of the following four courses:≠		
PSYC 350	Developmental Psychology‡‡≠	3 [2-3]
PSYC 370	Research in Personality‡‡≠	3
PSYC 380	Psychopathology‡‡≠	3
PSYC 390	Social Psychology‡‡≠	3
Two of the following four courses:		
PSYC 310	Sensation and Perception‡‡	3 [2-3]
PSYC 312	Learning and Motivation‡‡	3
PSYC 314	Brain and Behavior‡	3
PSYC 340	Cognition‡‡	3
Two courses at or above the 400-level; however, PSYC 466 and 468 may not be used to fulfill this requirement		6 [1-4]
Three credits of any Psychology course (except PSYC 301, 303, 325 and 334)		3 [2-4]
Within the College		
Twenty-four credits in the following social sciences with at least three credits in each department:		
Anthropology course		3 [1-4]
Economics course		3 [1-4]
Geography course		3 [1-4]
History course		3 [1-4]
Political Science course		3 [1-4]
Sociology course		3 [1-4]
Six additional credits selected from the departments listed above		6 [1-4]
Professional Studies		
EDST 201	Education in a Multicultural Society	3 [1-4]
EDST 304	Educational Psychology – Social Aspects	3 [1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3 [1-4]

*Superior figures indicate year or years in which the course is normally taken. i.e., [1]freshman year, [2]sophomore year, etc.
‡Prerequisite: PSYC 201.
‡‡Prerequisite: PSYC 201 and PSYC 309 (Measurement and Statistics)
‡‡‡Prerequisite: Students must have completed the 300-level course requirements.
≠Note the following restrictions:
If PSYC 350 is used for the major, PSYC 325 may not be used; If PSYC 370 is used for the major, PSYC 301 may not be used.
If PSYC 380 is used for the major, PSYC 334 may not be used; If PSYC 390 is used for the major, PSYC 303 may not be used.
If both courses in one of the above pairs are taken, only the lower numbered course will count toward the 30 credits required for the major. However, both courses in each pair may be counted toward the 124 credit minimum for the Bachelor of Arts degree.

HIST 491	Planning a Course of Instruction	3[4]
HIST 493	Seminar: Problems in Teaching History and Social Sciences	3[4]
EDST 420	Reading in the Content Areas	1[1-4]
EDDV 400	Student Teaching	9[4]

The Psychology Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

ELECTIVES

After required 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 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.

SOCIOLOGY

Undergraduate courses in sociology acquaint students with the sociological point of view, a distinct way of looking at social phenomena. They contribute to students' understanding of social behavior and the setting in which it occurs. Thus, they include the study of social relationships, groups, organizations and institutions, communities, and societies.

The major in sociology combines a liberal arts foundation with extensive interdisciplinary study. For those students who are interested, it complements this study with on-the-job experiences in professional organizations. These experiences are tailored to meet individual career interests in such areas as urban planning, health services, public administration, social work, and social services.

The undergraduate program in sociology, therefore, provides its majors with several options. In addition to pursuing a regular major in sociology, students may choose to specialize in any of six concentrations: 1) pregraduate school preparation, 2) social welfare, 3) applied urban studies, 4) health services, 5) law and society, and 6) data analysis. In addition, a student may earn a secondary school teaching credential through the sociology education major. The concentrations, the sociology education major, and the regular major are described below.

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201	Introduction to Sociology	3[1-4]
SOCI 301	Introduction of Sociological Research	3[1-4]
SOCI 312	Theories of Society	3[1-4]
Seven Sociology courses		21[1-4]

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466).

Within the College

Five courses in related subjects chosen in consultation with the adviser, normally from among the following departments: Economics, Black American Studies, Criminal Justice, Geography, History, Philosophy, Political Science and International Relations, Psychology, and Statistics — 15[1-4]

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: PREGRADUATE WORK

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201	Introduction to Sociology	3[1-4]
SOCI 301	Introduction of Sociological Research	3[3-4]
SOCI 312	Theories of Society	3[3-4]
Two Sociology courses at the 600-level		6[3-4]
SOCI 605	Data Collection	3[3-4]
or		
SOCI 612	Development of Sociological Theory	3
Any four additional Sociology courses.		12[1-4]

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466).

Within the College

Statistics course	3[1-4]
Four courses from Group C chosen with the approval of the student's adviser	12[1-4]

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: SOCIAL WELFARE

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201	Introduction to Sociology	3[1-4]
SOCI 301	Introduction of Sociological Research	3[3-4]
SOCI 312	Theories of Society	3[3-4]
SOCI 341	Welfare and Society	3[3-4]
SOCI 348	Theories of Social Work Practice	3[3-4]
Any five courses in Sociology, the following are recommended		15[1-4]
SOCI 202	Social Deviance	3
SOCI 204	Urban Communities	3
SOCI 303	Juvenile Delinquency	3
SOCI 304	Criminology	3
SOCI 305	Social Class and Inequality	3
SOCI 308	The Family	3
SOCI 346	Sociology of Aging	3
SOCI 361	Race, Power and Social Conflict	3
SOCI 448	Community Based Treatment.	3

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466).

SOCI 441	Social Welfare Practicum and Seminar.	4[1-4]

This course is required but does not count as part of the thirty Sociology credits for the major.

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.

Related Work

Eleven additional credits of related work are required and may include the following:

POSC 411	Politics and Poverty	3 3-4
PSYC 301	Personality	3 3-4
PSYC 322	Psychology of Adjustment	3 3-4
PSYC 325	Child Psychology	3 3-4
PSYC 334	Abnormal Psychology	3 3-4
EDDV 374	Experiential Education	3
IFST 235	Survey in Child and Family Services	3

or

Other courses chosen with the approval of the adviser.

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: APPLIED URBAN STUDIES

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201	Introduction to Sociology	3 1-4
SOCI 204	Urban Communities	3 1-4
SOCI 210	Population Problems	3 1-4
SOCI 301	Introduction of Sociological Research	3 3-4
SOCI 312	Theories of Society	3 3-4
Four Sociology courses		12 1-4

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466)

SOCI 402	Urban Studies Practicum and Seminar	4 3-4

This course is required but does not count as part of the thirty Sociology credits for the major.

Related Work

Eleven additional credits of related work are required and may include the following:

POSC 355	Urban Politics	3 1-4
GEOG 325	Urban Geography	3
HIST 459	U.S. Urban History	3
POSC 452	Problems in Urban Politics	3
ECON 393	Urban Economics	3
CRJU 455	The Ecology of Crime	3

or

Other courses chosen with the approval of the adviser.

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: HEALTH SERVICE

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201	Introduction to Sociology	3 1-4
SOCI 301	Introduction of Sociological Research	3 3-4
SOCI 310	Sociology of Health Care	3 3-4
SOCI 311	Hospitals	3 3-4
SOCI 312	Theories of Society	3 3-4
And five additional Sociology courses		15 1-4

(SOCI 341 and 348 recommended for those interested in medical social work)

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466)

SOCI 410	Health Services Practicum and Seminar	4 3-4

This course is required but does not count as part of the thirty Sociology credits for the major.

Related Work

Eleven additional credits of related work are required and will be selected in consultation with the student's adviser. Departments offering courses filling the needs of health concentration students include Anthropology, Business Administration, Center for Science and Culture, Economics, Individual and Family Studies, Philosophy, Psychology, and Women's Studies. 11 1-4

ELECTIVES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: LAW AND SOCIETY

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201	Introduction to Sociology	3 1-4
SOCI 301	Introduction of Sociological Research	3 3-4
SOCI 312	Theories of Society	3 3-4
SOCI 345	Sociology of Law	3 3-4
SOCI 456	Lawyers and Society	3 3-4
Any five other courses in Sociology		15 1-4

Suggested courses for the study of family/gender include:

SOCI 202	Social Deviance	3
SOCI 213	Men and Women in American Society	3
SOCI 303	Juvenile Delinquency	3
SOCI 308	The Family	3
SOCI 330	Population, Law and Society	3
SOCI 407	Sociology of Sex and Gender	3

Suggested courses in the organization/work area:

SOCI 327	Sociology of Organizations	3
SOCI 330	Population, Law and Society	3
SOCI 355	Computers, Ethics and Society	3
SOCI 428	Corporate Crime	3
SOCI 450	Political Sociology	3

No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466)

SOCI 495	Law and Society Practicum and Seminar	4 1-4

This course is required but does not count as part of the thirty Sociology credits for the major.

Related Work

Twelve credits from the following courses are recommended: 12 1-4

CRJU 320	Introduction to Criminal Law	3
CRJU 347	The Jury: Guilty or Not Guilty	3
CRJU 357	Seminar on the Police	3
CRJU 425	Criminal Law and Social Policy	3
CRJU 467	Contemporary Debates	3
POSC 402	Civil Liberties I	3
POSC 404	The Judicial Process	3
POSC 405	Constitutional Law of the U.S.	3
POSC 406	Civil Liberties II	3
PHIL 201	Social and Political Philosophy	3
PHIL 446	Philosophy of Law	3
HIST 301	The Worker in American Life	3
HIST 309	U.S. Business and Political Economy	3

A second writing course in any department 3 1-4

A course in oral communication is suggested 3 1-4

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: DATA ANALYSIS

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201	Introduction to Sociology	3 [1-4]
SOCI 301	Introduction of Sociological Research	3 [3-4]
SOCI 312	Theories of Society	3 [3-4]
SOCI 401	Advanced Sociological Methods	3 [3-4]
SOCI 411	Techniques of Demographic Analysis	3 [3-4]
SOCI 414	Data Analysis	3 [3-4]

Any five other courses in Sociology ..... 15 [1-4]
No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466).

SOCI 412 Practicum ..... 4 [3-4]
This course is required but does not count as part of the thirty-three Sociology credits for the major.

Related Work

STAT 201	Introduction to Statistics I***	3
STAT 202	Introduction to Statistics II***	3

Nine additional credits chosen from the following:

GEOG 250	Computer Methods in Geography	4
GEOG 470	Computer Cartography	4
PHIL 245	Ethical Issues in Scientific Research	3
PHIL 320	Theory of Knowledge	3
ECON 422	Econometric Methods and Models I	3
STAT 418	Sampling Methods	3
STAT 420	Data Analysis and Nonparametric Statistics	3

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY EDUCATION

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

SOCI 201	Introduction to Sociology	3 [1-4]
SOCI 301	Introduction of Sociological Research	3 [3-4]
SOCI 312	Theories of Society	3 [3-4]

Seven Sociology Courses ..... 21 [1-4]
No more than 12 credits at the 200-level. At least 6 credits must be at the 400-level or higher, but cannot be fulfilled with 400-level directed study courses (466).

Related Work

Twenty-four credits in the following social sciences with at least three credits in each department ..... 24 [1-4]

Anthropology course	3
Economics course	3
Geography course	3
History course	3
Political Science course	3
PSYC 201 General Psychology	3 [1-4]

Six additional credits selected from the departments listed above ..... 6 [1-4]

Professional Studies

EDST 201	Education in a Multicultural Society	3 [1-4]
EDST 304	Educational Psychology – Social Aspects	3 [1-4]
EDST 305	Educational Psychology – Cognitive Aspects	3 [1-4]
EDST 420	Reading in the Content Areas	1 [1-4]
HIST 491	Planning a Course of Instruction	3 [4]
HIST 493	Seminar: Problems in Teaching History and Social Sciences	3 [4]
EDDV 400	Student Teaching	9 [4]

The Sociology Education program requires a certain minimum G.P.A. for enrollment in EDDV 400, Student Teaching, a course required for the degree. The teacher education program adviser (see list on p. 143) should be consulted for the exact G.P.A. requirements and other policies concerning qualifications for student teaching.

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

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

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

Advantages of the Program

1. While all students will receive a B.A. degree in sociology, this program provides preprofessional training within selected areas of the student's choice.

2. The program offers future job-related experience with academic supervision and for academic credit.

3. It includes certification of these concentrations by the department, which may be beneficial in obtaining employment.

4. It offers increased flexibility for the student by allowing choices among various focused, directed concentrations.

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 Program at the University of Delaware offers undergraduate students an opportunity to pursue studies leading to law school, graduate school, or a career in the administration of justice. The 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. Since any criminal justice system does not exist in isolation but naturally reflects the structure, ideas, and concerns of the society in which it operates, the

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
***Required.

Criminal Justice Program draws from a wide variety of academic disciplines. Therefore, although administratively housed within the Department of Sociology and Criminal Justice, the Criminal Justice curriculum includes courses in political science, psychology, and at least one foreign language, as well as in sociology.

At the University of Delaware, a Bachelor of Arts degree in criminal justice is viewed as a social science/liberal arts degree. Students receive no "hands-on" training in self defense, fingerprint analysis, ballistics, or any other kind of vocational skill. The emphasis is placed on theory, research, and the analysis of substantive law. The curriculum also stresses the importance of representative courses in the arts and humanities, mathematics, and science. Consequently, graduating criminal justice majors will have achieved the skills and breadth of knowledge expected of well educated men and women in a complex and pluralistic society.

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 adviser 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 if their overall cumulative average at the University of Delaware is at least 2.3.

DEGREE: BACHELOR OF ARTS
MAJOR: CRIMINAL JUSTICE

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
CRJU 110	Introduction to Criminal Justice	3 [1-2]
CRJU 201	Problems of Law Enforcement	3 [1-2]
CRJU 202	Problems of Criminal Judiciary	3 [1-2]
CRJU 203	Problems of Corrections	3 [1-2]
Criminal Justice courses at the 300 or 400-level		18 [3-4]
Within the College		
SOCI 201	Introduction to Sociology	3 [1-2]
SOCI 301	Introduction of Sociological Research	3 [2-4]
POSC 105	The American Political System	3 [1-2]
PSYC 201	General Psychology	3 [1-2]
One of the following four courses:		
PSYC 301	Personality	3 [2-4]
PSYC 303	Introduction to Social Psychology	3 [2-4]
PSYC 325	Child Psychology	3 [2-4]
PSYC 334	Abnormal Psychology	3 [2-4]
One of the following three courses:		
POSC 402	Civil Liberties I	3 [3-4]
POSC 405	Constitutional Law of the United States	3 [3-4]
POSC 406	Civil Liberties II	3 [3-4]
ELECTIVES		
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.		
CREDITS TO TOTAL A MINIMUM OF		**124**

DOUBLE MAJOR OR INTERDEPARTMENTAL MAJOR

Double Major: With the permission of the dean of the college and the department chair a student may elect to fulfill requirements for two majors such as criminal justice and English (for a career in journalism), criminal justice and chemistry (for a career in forensic science), criminal justice and political science (for a career in court administration), criminal justice and psychology (for a career in corrections), or criminal justice and sociology (for a career in related fields).

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.

The Professional Theatre Training Program (PTTP) confers the Master of Fine Arts degree. Through its production offerings, the PTTP provides an extraordinary cultural resource to the student body by affording undergraduates the opportunity to see quality productions of the major plays and playwrights that comprise our dramatic heritage.

The PTTP also provides the University with a variety of general education courses in theatre designed to expand appreciation for, and future participation in, theatre. These courses are regularly taught by members of the nationally respected faculty of the PTTP.

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. Students interested in performance opportunities should contact one of the amateur theatre groups on campus: E-52, Harrington Theatre Arts, Bacchus Theatre Players, Black Student Theatre, or Montage Repertory Theatre.

DEGREE: BACHELOR OF ARTS
MAJOR: THEATRE PRODUCTION

CURRICULUM		CREDITS*
See page 68 for University and College requirements.		
MAJOR REQUIREMENTS		
Within the Department		
THEA 102	Introduction to Performance	3 [1]
THEA 104	Introduction to Theatre	3 [1]
THEA 200	Introduction to Theatre Production	3 [1,2,3]
THEA 202	Introduction to Theatre Design	3 [1,2,3]
THEA 203	Introduction to Costuming for the Stage	3 [1,2,3]
THEA 407	Theatre Practicum for Majors	10 [2,3,4]
Six credits from the following: Select two three-credit courses; minimum one credit concurrent registration in THEA 407 Practicum for Majors is required with each course; Practicum credits applied in core above.		
THEA 300	Fundamentals of Stagecraft	3 [2,3,4]
THEA 302	Fundamentals of Stage Lighting	3 [2,3,4]
THEA 305	Fundamentals of Costume Production	3 [2,3,4]
Or other courses as approved by adviser.		
Within the College		
Six credits from the following:		
ENGL 208	Introduction to Drama	3 [2,3]
ENGL 324	Shakespeare	3 [2,3]
or		
Other courses as approved by adviser.		
ELECTIVES		
After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree. Additional credits in the major may be taken, not to exceed a total of 45 credits in the major.		
CREDITS TO TOTAL A MINIMUM OF		**124**

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.

REQUIREMENTS FOR MINOR IN THEATRE

THEA 104	Introduction to Theatre	3
THEA 226	Fundamentals of Acting	3
Theatre Electives at the 200-level		6
Theatre Electives at the 300-level		6
TOTAL CREDITS		**18**

COURSES FOR NON-MAJORS

Many Theatre courses are on the list of approved courses for fulfilling the general education requirements in the College of Arts and Science. The following Theatre courses fulfill group requirements:

Group A: 102, 104, 106, 200, 202, 203, 206, 410
Group B: 341, 342, 343, 344, 345, 346

In addition, the Theatre Department offers general electives in dance, acting, voice, speech, mime and production practicum.

MAJORS IN AREA STUDIES

Students who may wish a broader course of study than that offered by the departmental major have the option of fulfilling their concentration requirements through area studies. Three area programs leading to majors—Comparative Literature, International Relations and Latin American Studies—are described below.

COMPARATIVE LITERATURE

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

Students majoring or minoring in comparative literature must have a command of at least one foreign language at the advanced elective level. It is strongly recommended that majors pursue a second foreign language at least through the intermediate level. Students planning to go on to graduate work in comparative literature would be well advised to include work in a classical language in their program. Majors are expected to make use of their command of foreign languages in comparative literature courses.

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

DEGREE: BACHELOR OF ARTS
MAJOR: COMPARATIVE LITERATURE

CURRICULUM	CREDITS*
UNIVERSITY REQUIREMENTS	
ENGL 110 Critical Reading and Writing**	3[1]
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #	3[1-4]
COLLEGE REQUIREMENTS	
Skill Requirements	
Writing:*	3[3,4]
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 62 credit hours. Appropriate writing courses are normally designated in the semester's Registration Booklet. (See list of courses approved for second writing requirement, page 68.)	
Foreign Language:	0-12[1-4]
Completion of the intermediate-level course (107 or 112) in a given language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement in that language by taking an exemption examination.	
Mathematics:	
MATH 114 Elementary Mathematics and Statistics	3[1]
(designed for students who do not intend to continue the study of mathematics)	
or	
MATH 115 Pre-Calculus	3
(designed for students who intend to continue the study of mathematics)	
or	
One of the following:	
MATH 221 Calculus I	3
MATH 241 Analytic Geometry and Calculus A	4
or	
Successful performance on the college proficiency exam	
Breadth Requirements† (See page 70)	
Group A	12[1-4]
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas	
Group B	12[1-4]
The study of culture and institutions over time. Twelve credits representing at least two areas.	
Group C	12[1-4]
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.	
Group D	13[1-4]
The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory	
MAJOR REQUIREMENTS	
Within the Department	
CLMT 202 Biblical and Classical Literature	3[1-4]
(ENGL 205 or 206 or CLMT 316 may be substituted with adviser's approval)	
CLMT 207 Great Writers of the Western World: 1100-1700	3[1-4]
CLMT 208 Great Writers of the Western World: 1650-1950	3[1-4]
CLMT 484 Literary Criticism	3[4]
Comparative Literature courses or courses in related fields approved by the adviser	6[1-4]
Within the College	
Nine credits in each of two national literatures studied in the original text with at least three credits at the 400-level	18[1-4]
ELECTIVES	
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree	
CREDITS TO TOTAL A MINIMUM OF	**124**

REQUIREMENTS FOR THE MINOR IN COMPARATIVE LITERATURE

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

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
**Minimum grade of C- required.
#This requirement may be fulfilled through a course or courses taken to complete other degree requirements; it cannot be fulfilled by a course taken pass/fail. See page 21.
†A course may be applied toward both the major requirements and a breadth requirement, but credits are counted only once toward the total credits for graduation

INTERNATIONAL RELATIONS

This interdepartmental program of study includes courses in political science, economics, history, sociology, anthropology, and geography. The student follows a curriculum that is specifically oriented toward gaining an understanding of the various problems arising among nations.

Various career opportunities are open to students of this program, such as those with U.S. government departments, U.S. Foreign Service, international organizations, U.S. Information Agency, the intelligence community, international programs of a variety of research groups, academic positions, or international business.

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

DEGREE: BACHELOR OF ARTS
MAJOR: INTERNATIONAL RELATIONS

CURRICULUM CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Departments

Anthropology

Six credits chosen from the following courses:		6 [1-4]
ANTH 222	Technology and Culture	3
ANTH 225	Peasant Societies	3
ANTH 230	Peoples of the World	3
ANTH 231	Personality and Culture	3
ANTH 255	Applied Anthropology	3
ANTH 260	Sociocultural History of Africa	3
ANTH 261	Peoples and Cultures of the Middle East	3
ANTH 265	High Civilizations of the Americas	3
ANTH 269	Early Civilizations of the Old World	3
ANTH 325	Peoples of Europe	3
ANTH 327	Peoples of the Caribbean	3
ANTH 330	Development and Underdevelopment	3
ANTH 333	Peoples of Africa	3
ANTH 337	South American Indians	3
ANTH 363	Women in Cross-Cultural Perspective	3
ANTH 368	Anthropology of Slavery	3
ANTH 370	Culture of Food Production and Economic Development	3
ANTH 375	Peoples and Cultures of Modern Latin America	3
ANTH 377	Ecological Anthropology	3
ANTH 380	Peoples and Cultures of Mexico and Central America	3
ANTH 401	The Idea of Race	3

Economics

ECON 151	Introduction to Microeconomics: Prices and Markets	3
ECON 152	Introduction to Macroeconomics: National Economy	3
ECON 340	International Economics	3
Three credits chosen from the following courses:		3 [1-4]
ECON 305	Comparative Economic Systems	3
ECON 311	Economics of Developing Countries	3
ECON 318	Economic History of France	3
ECON 341	Environment of Multinational Corporations	3
ECON 405	The Planned Economies	3
ECON 411	Economic Theory of Developing Countries	3
ECON 443	International Monetary Economics	3

Geography

Three credits chosen from the following courses:		3 [1-4]
GEOG 102	Human Geography	3
GEOG 120	World Regional Geography	3
GEOG 203	Introduction to Cultural Geography	3
GEOG 210	Economic Geography	3
GEOG 226	Geography of Latin America	3
GEOG 227	Historical Geography of Europe	3
GEOG 236	Conservation: Global Issues	3
GEOG 460	Women in International Development	3

History

Six credits chosen from the following courses:		6 [1-4]
HIST 101	Western Civilization to 1648	3
HIST 102	Western Civilization 1648 to the Present	3
HIST 134	History of Africa	3
HIST 135	Introduction to Latin American History	3
HIST 137	East Asian Civilization: China	3
HIST 138	East Asian Civilization: Japan	3
HIST 210	War and Society	3
HIST 264	The Jewish Holocaust: 1933-1945	3
HIST 302	The World in Our Time	3
HIST 306	History of American Foreign Policy	3
HIST 330	Peasants and Revolution in Africa	3
HIST 334	History of Mexico	3
HIST 351	Europe in Crisis: 1919-1945	3
HIST 352	Contemporary European Society	3
HIST 357	Russian History to 1801	3
HIST 358	Russian History: 1801-1917	3
HIST 359	Soviet Russia: 1917-1990	3
HIST 364	Germany in the Twentieth Century: 1914 to Present	3
HIST 373	Modern Ireland: 1534-Present	3
HIST 374	History of England to 1715	3
HIST 375	History of England: 1715 to the Present	3
HIST 376	English Legal and Constitutional History	3
HIST 392	History of Modern Japan	3
HIST 394	Africa Since 1960	3
HIST 395	Pan Africanism	3
HIST 397	History of South Africa	3
HIST 430	Twentieth-Century Latin American Revolutions	3
HIST 440	Africa Under Colonial Rule	3
HIST 474	Studies in English History	3
HIST 475	Seminar in Modern European History	3
HIST 477	Studies in Latin American History	3
HIST 479	Studies in Asian History	3

Political Science

POSC 240	Introduction to International Relations	3 [1-4]
Twelve credits chosen from the following courses:		12 [1-4]
POSC 270	Comparative Politics	3
POSC 310	European Governments	3
POSC 311	Politics of Developing Nations	3
POSC 312	East Asian Political Systems	3
POSC 313	American Foreign Policy	3
POSC 314	Making United States Foreign Policy	3
POSC 333	Communism, Fascism and Democracy	3
POSC 334	Liberalism and Conservatism	3
POSC 341	Environment of Multinational Corporations	3
POSC 365	Model United Nations	2
POSC 372	East Central European Politics	3
POSC 377	Arab-Israeli Politics	3
POSC 408	International Organization	3
POSC 409	Contemporary Problems of World Politics	3
POSC 412	Foreign Policy of the Post-Soviet Union	3
POSC 414	Problems in American Foreign Policy	3
POSC 415	Force and World Politics	3
POSC 416	Transnational Relations and World Politics	3
POSC 426	Latin American Political Systems	3
POSC 427	Politics in China	3
POSC 428	Politics in Japan	3
POSC 431	Latin American Politics: Countries	3
POSC 432	Political Systems of the Post-Soviet Union	3
POSC 433	African Politics	3
POSC 441	Problems of Western European Politics by Country	3
POSC 442	Problems of Western European Politics	3
POSC 443	China and the World	3
POSC 444	Seminar in World Politics	3
POSC 445	Human Rights and World Politics	3
POSC 448	Theories of International Relations	3
POSC 450	Problems of Latin American Politics	3
POSC 463	International Institutions	3
POSC 465	Model OAS	3
POSC 477	Politics of the Arab World	3
POSC 604	International Law	3
POSC 640	International Development Policy and Administration	3
POSC 651	Communist Political Thought	3

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc

Sociology

SOCI 201	Introduction to Sociology	3 [1-4]

Three credits chosen from the following courses: 3 [1-4]

SOCI 210	Population Problems	3
SOCI 306	Personality and Society	3
SOCI 320	Personality and Politics	3
SOCI 360	Sociology of Religion	3
SOCI 361	Race, Power and Social Conflict	3
SOCI 380	Development and Modernization	3
SOCI 460	Women in International Development	3

Other

Three credits chosen from the following courses: 3 [1-4]

Any course included in the previous listing		3
Literature course in a foreign area		3
STAT 201	Introduction to Statistics I	3
PHIL 102	Introduction to Philosophy	3
PHIL 201	Social and Political Philosophy	3
PHIL 202	Contemporary Moral Problems	3
PHIL 204	World Religions	3
PHIL 309	Indian Religion and Philosophy	3
PHIL 310	Chinese Religion and Philosophy	3
Course in a second foreign language		3
ARSC 127	Shaping of the Modern World	3
FREC 410	International Agricultural Trade and Marketing	3
FREC 420	Agriculture in Economic Development	3

ELECTIVES

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

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

LATIN AMERICAN STUDIES

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

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

DEGREE: BACHELOR OF ARTS
MAJOR: LATIN AMERICAN STUDIES

CURRICULUM CREDITS*

See page 68 for University and College requirements. Note: The Foreign Language College requirement must be fulfilled in Spanish. Completion of PORT 107 is also highly recommended.

MAJOR REQUIREMENTS

Within the College

Required courses:

ANTH 265	High Civilizations in the Americas	3
ANTH 375	Peoples and Cultures of Modern Latin America	3
or		
ANTH 380	Peoples and Cultures of Mexico and Central America	3
GEOG 226	Geography of Latin America	3
HIST 135	Introduction to Latin American History	3
POSC 426	Latin American Political Systems	3
SPAN 326	Latin American Civilization and Culture	3
SPAN 303	Survey of Spanish-American Literature I	3
or		
SPAN 304	Survey of Spanish-American Literature II	3

and

One of the following seven courses: 3

ANTH 323	Prehistory of South America
ANTH 327	Peoples of the Caribbean
ANTH 337	South American Indians
ANTH 338	Arts and Crafts of Native South America
HIST 334	History of Mexico
HIST 430	20th Century Latin American Revolutions
HIST 477	Studies in Latin American History

One of the following two courses: 3

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

One of the following three courses: 3

SPAN 415	Latin American Literature in its Political Context
SPAN 430	Latin American Novel and Cinema
SPAN 443	Mexican Literature

Suggested Course:

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

ELECTIVES

After required courses are completed, sufficient elective credits must be taken, in consultation with the student's academic adviser, 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

MINORS IN AREA STUDIES

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.

REQUIREMENTS FOR THE MINOR IN AFRICAN STUDIES

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

6 credits in Anthropology, selected from the following:

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

6 credits in History, selected from the following:

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

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

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

3 credits from other areas, which may include:

POSC 433	African Political Systems	3

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

*Superior figures indicate year or years in which the course is normally taken, i e , [1]freshman year, [2]sophomore year, etc.
***This course satisfies the College of Arts and Science second writing requirement.

BLACK AMERICAN STUDIES

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

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

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

REQUIREMENTS FOR A MINOR IN BLACK AMERICAN STUDIES

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

Alternative arrangements for a minor in Black American Studies are available but must be approved in advance by a program adviser 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.

EAST ASIAN STUDIES

This is an interdisciplinary program for students wishing to focus their interests on East Asia as an enhancement and complement to their undergraduate majors. Students will declare the minor in *either* East Asian Studies without Language *or* East Asian Studies with Language.

EAST ASIAN STUDIES WITHOUT LANGUAGE

Number of credits required: 18

A. Introductory Courses

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

ARTH 155	Asian Art
ARTH 161	Art in East and West
FLLT 380	Topics: Japanese Culture in Translation
HIST 333	The Age of Confucius
MUSC 206	Music of China, Korea, and Japan
PHIL 310	Chinese Religion and Philosophy

6 credits from the following courses in the social sciences:

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

B. Advanced Courses

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

ECON 3xx	East Asian Economic Systems
HIST 368	Modern China: 1600-1920s
HIST 369	China Since 1900
HIST 392	History of Modern Japan
HIST 393	History of Modern Vietnam
HIST 3xx	China and the West
HIST 479	Studies in Asian History
LING 470	Structure of Chinese
LING 495	Structure of Japanese
POSC 427	Politics in China
POSC 428	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.

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

EAST ASIAN STUDIES 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 students' language placement.

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.

LATIN AMERICAN STUDIES

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

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

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

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

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

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

INTERDISCIPLINARY PROGRAMS

ART CONSERVATION

Artistic, cultural, historic, natural science, and technological objects are made of materials that are subject, as are all materials, to the processes of deterioration. These changes are both chemical and physical. The primary purpose of art conservation is to extend the life of our material heritage.

The art conservator is responsible for the care of objects. In order to do this job effectively, the conservator must combine the skills of the artist and craftsperson, the archaeologist, the art and cultural historian, the chemist and the environmentalist. The primary purpose of this interdisciplinary Bachelor of Arts degree program in Art Conservation is to prepare students who wish to pursue graduate training in art conservation for such advanced preprofessional study. Other work venues after completion of the degree include museum work as art handlers, registrars, conservation assistants, collections managers and in the private sector; in the commercial art gallery, antiques, photographic, matting and framing industries. Working closely with the coordinator of this major, the student elects a program of coordinated courses in the Departments of Anthropology, Art, Art Conservation, Art History, Chemistry and Biochemistry, among several others. Since the University of Delaware is one of the three universities in this country with a master's program and the only one with a doctoral degree program in art conservation research, students benefit from this unique opportunity to take special courses in art materials and techniques and to intern with the conservation staff at the Winterthur Museum, among other local conservation environments.

DEGREE: BACHELOR OF ARTS
MAJOR: ART CONSERVATION

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Art Conservation:

Twenty-one credits as follows: 21

ARTC 301	Care and Preservation of Cultural Properties	3
ARTC 680	Studio in the Materials and Techniques of Drawing	3
ARTC 685	Color Mixing and Matching	3
ARTC 688	Studio in the Materials and Techniques of Painting I	3
or		
ARTC 689	Studio in the Materials and Techniques of Painting II	3
ARTC 690	Studio in the Materials and Techniques of Printmaking I	3
ARTC 466	Independent Study: Conservation Internship I & II (Junior and/or Senior status only)	6

Within the College

Art:

Nine credits as follows: 9

ART 110	Foundation Drawing	3
or		
ART 130	Drawing I: Tools and Techniques	3
ART 280	Beginning Photography	3
ART 250	Beginning Sculpture	3
or		
ART 290	Beginning Ceramics	3
or		
ART 260	Metals I	3
or		
ART 373	On Loom Weaving	3

Six credits of Anthropology and/or Art History courses from the following: 6

ANTH 103	Introduction to Prehistoric Archaeology	3
ARTH 153	Introduction to Art History I	3
ARTH 154	Introduction to Art History II	3
ARTH 155	Asian Art	3
ARTH 161	Art in the East and West	3
ARTH 162	History of Architecture	3

Eighteen credits, at least four courses at or above the 300-level, of Anthropology, Art History, Black American Studies, Museum Studies, and/or Textiles, Design and Consumer Economics courses from the following: 18

Anthropology

ANTH 222	Technology and Culture	3
ANTH 229	Indians of North America	3
ANTH 251	Introduction to Ethnic Arts	3
ANTH 316	Introduction to Material Culture Studies	3
ANTH 324	Old World Archaeology	3
ANTH 338	Arts & Crafts: Native South America	3
ANTH 340	Historical Archaeology	3
ANTH 379	Historical Archaeology of the Eastern United States	3
ANTH 410	Archaeological Analysis of Material Culture	3
ANTH 451	Myth and Culture	3
ANTH 457	Survey of African Art	3

Art History

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

Black American Studies

BAMS 320	History of Afro-American Art	3

Museum Studies

MSST 403	History, Philosophy, Functions & Future of Museums	3

Textiles Design and Consumer Economics

TDCE 214	Costume History Before 1700	3
TDCE 224	Clothing Design and Production Since 1700	3

Chemistry and Biochemistry

19-20 credits of chemistry courses 19-20

Track A:

CHEM 103	General Chemistry	4
CHEM 104	General Chemistry	4
CHEM 220	Quantitative Analysis	3
CHEM 221	Quantitative Analysis Laboratory	1
CHEM 321	Organic Chemistry	4
CHEM 322	Organic Chemistry	4
		20

Track B:

CHEM 111	General Chemistry	3
CHEM 119	Quantitative Chemistry I	2

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.

CHEM 112	General Chemistry	3
CHEM 120	Quantitative Chemistry II	3
CHEM 321	Organic Chemistry	4
CHEM 322	Organic Chemistry	4
		19

ELECTIVES

After required 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

JEWISH STUDIES

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

REQUIREMENTS FOR THE MINOR IN JEWISH STUDIES

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

JWST/ENGL 360	Introduction to Jewish Sources	3
JWST/PHIL 208	Introduction to Jewish Philosophy	3

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

LEGAL STUDIES

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

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

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

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

REQUIREMENTS FOR A MINOR IN LEGAL STUDIES

CURRICULUM		CREDITS*
POSC 380	Introduction to Law	3
LEST 301	Introduction to Legal Studies	3
LEST 401	Senior Seminar	3
Three courses from the following list. At least two of these courses must be from outside the requirements of the student's major and outside his or her major department. These two courses must be chosen from two different departments		9

Accounting

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

Communication

COMM 365	Legal Issues of the Mass Media	3

Criminal Justice

CRJU 202	Problems of Criminal Judiciary	3
CRJU 203	Problems of Corrections	3
CRJU 320	Introduction to Criminal Law	3
CRJU 346	Psychology and the Law (same as PSYC 346)	3
CRJU 347	The Jury: Guilty or Not Guilty	3
CRJU 375	Criminal Procedure	3
CRJU 425	Criminal Law and Social Policy	3
CRJU 428‡	Corporate Crime (same as SOCI 428)	3
CRJU 450	Prisoners and the Law	3
CRJU 456	Lawyers and Society (same as SOCI 456)	3

Economics

ECON 306	Economic Theory of Politics (same as POSC 306)	3
ECON 360	Government Regulation of Business	3
ECON 408	Economics of Law	3
ECON 461	Industrial Organization and Antitrust	3
ECON 463	Economics of Regulation	3

History

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

Philosophy

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

Political Science and International Relations

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

Psychology

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

Sociology

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

Women's Studies

WOMS 413	Gender, Sex, and American Law (same as POSC 413)	3

MEDICAL HUMANITIES

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

REQUIREMENTS FOR A MINOR IN MEDICAL HUMANITIES

CSCC/PHIL 246	Philosophical Perspectives of Medicine	3
CSCC/ENGL 369	Literature and Medicine	3
CSCC/HIST 382	History of Western Medicine	3
CSCC 366	Independent Study in Medical Humanities	1

*Superior figures indicate year or years in which the course is normally taken, i.e., [1]freshman year, [2]sophomore year, etc.
‡A course that is usually filled by majors or by students fulfilling major requirements

Two courses from the following:

CSCC/WOMS 233	Women, Biology and Medicine	3
CSCC/PHIL 241	Ethical & Moral Dimensions of Health Care	3
CSCC/SOCI 242	Society and the Health Professions	3
CSCC/SOCI 243	Society, Politics, and Health Care	3
CSCC 271	Comparative Medical Systems	3
CSCC/SOCI 310	Sociology of Health Care	3
CSCC/SOCI 311	Hospitals	3
CSCC/ENGL 368	Literature and Science	3
CSCC/HIST 385	History of Biological Ideas	3
CSCC/PHIL 444	Medical Ethics	3

Students wishing to complete a minor in Medical Humanities are encouraged to enroll as soon as possible. For information, contact Professor Ronald Martin in the Department of English, (302) 831-3068.

MEDIEVAL STUDIES

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

ARTH 209, 210, 213, 406/606, 408/608
CMLT 320 (on medieval topics), 321
ENGL 321, 322
FLLT 320 (on medieval topics)
FREN 423/623
HIST 241, 245, 342, 343, 344, 471/671
MUSC 311
PHIL 302
SPAN 435/635

Substitutions may be arranged with the permission of the faculty coordinator, provided that the required disciplinary distribution is maintained. For further information, consult Professor Daniel Callahan, program coordinator, Department of History, (302) 831-6501.

RELIGIOUS STUDIES

The Religious Studies 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 Alan Fox, Department of Philosophy, 831-8077, or email at AFOX@BRAHMS.UDEL.EDU.

WOMEN'S STUDIES

The Women's Studies Interdisciplinary Program is designed to foster in students a knowledge of the rich heritage, challenges, and concerns of women. In addition to being a unique field of study with its own philosophies, methodologies, and materials, both the major and the minor in Women's Studies provide vehicles for reexamining the traditional scholarly disciplines in order to identify and correct misinformation and unexamined assumptions about "women's place" in human history. In so doing, the lives of racial and ethnically diverse men and women are examined in new and more humanistic ways, enhancing an awareness of the interplay of gender, race, and class.

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

Students may enter the program at any time. No minimum grade point average is required to begin, but students must not be on probation at the time. To join the program, students need the permission of the director, who must also approve any waiver or substitution of requirements.

DEGREE: BACHELOR OF ARTS
MAJOR: WOMEN'S STUDIES

CURRICULUM — CREDITS*

See page 68 for University and College requirements.

MAJOR REQUIREMENTS

Within the Department

Introductory Courses

WOMS 201	Introduction to Women's Studies	3
WOMS/PHIL 216	Introduction to Feminist Theory	3

Distribution Requirements – Humanities

Six credits in Women's Studies courses cross-listed with History and/or humanities departments chosen from the following list:

WOMS 203/PHIL 202	Contemporary Moral Problems†	3
WOMS/PHIL 210	Women and Religion	3
WOMS/ENGL 214	Literature and Gender	3
WOMS/EDST/HIST 290	History of Women and Education	3
WOMS/ARSC 293	Honors Short Course†	1
WOMS/HIST 300	Women in American History	3
WOMS/ENGL 318	Studies in Film†	3
WOMS/POSC 323	Introduction to Women and Politics	3
WOMS/FLLT 324	Topics: French Literature in Translation†	3
WOMS/FLLT 325	Topics: German Literature in Translation†	3
WOMS/FLLT 326	Topics: Hispanic Literature in Translation†	3
WOMS/FLLT 330	Varying Authors, Themes, and Movements†	3
WOMS/PHIL 338	Topics in Philosophy and Gender	3
WOMS/ENGL 380	Women Writers	3
WOMS/ENGL 381	Women in Literature	3
WOMS/ENGL 382	Studies in Multicultural Literature in English†	3
WOMS/HIST 409	Varieties of Modern Feminism	3
WOMS/POSC 413	Problems in American Government†	3
WOMS/ENGL 465	Studies in Literature Genres, Types, and Movements †	3
WOMS/HIST 473	Studies in Early Modern European History†	3
WOMS/ENGL 480	Seminar†	3

Social Sciences

Six credits in Women's Studies courses cross-listed with social science departments chosen from the following list:

WOMS/SOCI 206	Women and Work	3
WOMS/SOCI 211	Men, Conflict, and Social Change	3
WOMS/LING 222	Language and Gender	3
WOMS 240	Women and Violence	3
WOMS/SOCI 213	Men and Women in American Society	3
WOMS/SOCI 407	Sociology of Sex and Gender	3
WOMS/PSYC 333	Psychology of Women	3
WOMS/CRJU 350	Women and Criminal Justice	3
WOMS/ANTH 363	Women in Cross-cultural Perspective	3
WOMS/SOCI 415	Race, Class, and Gender	3
WOMS/IFST 430	Teaching Family Life	3
WOMS/SOCI/GEOG/IFST 460	Women in International Development	3
WOMS/SOCI 607	Sociology of Sex and Gender	3

Science-Related Courses

Three credits in WOMS science-related courses chosen from the following list:

WOMS/CSCC 233	Women, Biology, and Medicine	3
WOMS/ANTH 305	The Evolution of Human Sex Roles and Reproduction	3

*Superior figures indicate year or years in which the course is normally taken, i e., [1]freshman year, [2]sophomore year, etc.
†Only those sections which are cross-listed with Women's Studies.

Women's Studies Elective Requirements

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

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	3
Two courses in WOMS or cross-listed with WOMS at or above the 300-level	6
Three elective courses in WOMS or cross-listed with WOMS	9

Note: No more than 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.