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, Behavioral and Social Sciences, and Natural Sciences and Mathematics.

The arts and humanities deal with the development and refinement of systems of value, esthetic appreciation, a comprehensive world view, historical perspective, and increased skill in communication, both verbal and nonverbal. 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, 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.

Specific Requirements for Students in the College of Arts and Science. Critical Reading and Writing, ENGL 110 (3 credits), with a minimum grade of C.

Courses to fulfill degree requirements must be taken for credits unless they are offered only on a pass/fail basis.

**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. Requirements for the general education section of the degree are divided into skill requirements and breadth requirements, as follows:

**SKILL REQUIREMENTS**

*Writing.* The requirements will consist of two courses: 1) ENGL 110 and 2) a second writing course. A minimum grade of C must be earned in both courses.

1) ENGL 110 will be taken by all students as freshmen, except by students who have otherwise demonstrated the skills taught in that course. All students must have satisfied this requirement by no later than the end of their sophomore year. A score of 650 on the College Board Achievement Test in English Composition will be a satisfactory demonstration of basic writing skills.

2) A second writing course must be taken after completion of 62 credit hours. Courses fulfilling this requirement will involve a significant writing experience including two papers of moderate length that are to be submitted for extended faculty critique of both composition and content and are to be returned to the student.

**COURSES APPROVED FOR SECOND WRITING REQUIREMENT**

To satisfy this requirement, a student must have completed a minimum of 62 credit hours. A minimum grade of "C" is required.

NOTE: Only the sections designated in the Registration Booklet as satisfying the Arts and Science Second Writing Course apply.

**American Studies (AMST)**

AMST 303 American Intellectual History (cross-listed with HIST 303)
AMST 304 American Intellectual History (cross-listed with HIST 304)
AMST 310 Community Studies
AMST 319 Revolutionary America (cross-listed with HIST 319)
AMST 328 American Industrial Society: 1815 to Present (cross-listed with HIST 328)
AMST 343 Cultural Issues in American Literature (cross-listed with ENGL 345)
AMST 368 Literature and Science (cross-listed with CSCC 368 and ENGL 368)
AMST 480 Seminar (cross-listed with CMLT 480 and ENGL 480)

**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 313 Art of the Northern Renaissance
ARTH 370 History of Photography
ARTH 401 Literature, Theory and Methods of Art History
ARTH 405 Seminar in Ancient Art
ARTH 407 Seminar in Italian Renaissance Art
ARTH 409 Seminar in Baroque Art

**Arts and Science (ARSC)**

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

**Biology (BISC)**

BISC 498 Topics in Biology (cross-listed with CSCC 498)
BISC 603 Nucleoprotein Interactions

**Black American Studies (BAMS)**

BAMS 415 Race, Class and Gender (cross-listed with SOCI 415 and WOMS 415)
BAMS 492 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 AMST 368 and ENGL 368)
CSCC 385 History of Biological Ideas (cross-listed with HIST 385)
CSCC 411 Seminar in American History (cross-listed with HIST 411)
CSCC 444 Medical Ethics (cross-listed with PHIL 444)
CSCC 498 Topics in Biology (cross-listed with BISC 498)

**Chemistry (CHEM)**

CHEM 610 History of Chemistry

**Communication (COMM)**

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

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

English (ENGL)
ENGL 200 Approaches to Literature
ENGL 301 Problems in Composition
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 343 Cultural Issues in American Literature
   (cross-listed with AMST 343)
ENGL 368 Literature and Science
   (cross-listed with AMST 368 and CSCC 368)
ENGL 409 Topics in Journalism
ENGL 410 Technical Writing
ENGL 480 Seminar (cross-listed with AMST 480 and CMLT 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

History (HIST)
HIST 290 Roots of Contemporary Culture
HIST 288 Seminar
HIST 300 Women in American History (cross-listed with WOMS 300)
HIST 302 The World in Our Time
HIST 303 American Intellectual History (cross-listed with AMST 303)
HIST 304 American Intellectual History (cross-listed with AMST 304)
HIST 307 The U.S. in the Early National Period
HIST 309 U.S. Business and Political Economy
HIST 313 Twentieth-Century America
HIST 314 Twentieth-Century America
HIST 315 Colonial America
HIST 319 Revolutionary America (cross-listed with AMST 319)
HIST 328 American Industrial Society: 1815 to Present
   (cross-listed with AMST 328)
HIST 330 Peasants and Revolution in Africa
HIST 334 History of Mexico
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 355 Early Modern Intellectual History
HIST 356 Modern European Intellectual History
HIST 361 European Business History: 1850 to Present
HIST 364 Modern Germany: 1870 to 1945
HIST 375 Modern Ireland: 1534 to Present
HIST 385 History of Biological Ideas (cross-listed with CSCC 385)
HIST 391 History of Modern China
HIST 392 History of Modern Japan
HIST 397 History of South Africa
HIST 409 Varieties of Modern Feminism (cross-listed with WOMS 409)
HIST 411 Seminar in American History (cross-listed with CSCC 411)
HIST 416 The American Family 1608 to 1900
   (cross-listed with WOMS 416)
HIST 430 Latin American Revolutions
HIST 459 United States Urban History
HIST 471 Studies in Medieval History
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 Seminar: Philosophical Topics

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

Sociology (SOCL)
SOCL 305 Social Class and Inequality
SOCL 355 Computers, Ethics and Society
   (cross-listed with CSCC 355)
SOCL 415 Race, Class and Gender
   (cross-listed with BAMS 415 and WOMS 415)
SOCL 428 Corporate Crime (cross-listed with CRJU 428)
SOCL 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 409 Varieties of Modern Feminism (cross-listed with HIST 409)
WOMS 415 Race, Class and Gender
   (cross-listed with BAMS 415 and SOCL 415)
WOMS 416 The American Family 1608 to 1900
   (cross-listed with THEA 416)
WOMS 473 Studies in Early Modern European History
   (cross-listed with HIST 473)

Foreign Language. Proficiency in a foreign language (ancient or modern) is required. There are two ways in which this requirement can be met:
1) Completion of the intermediate-level course (107 or 112) in a given language.

2) 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.

Mathematical Sciences. Students must demonstrate mathematical competence by one of the following methods:

1) Successful completion of MATH 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics); or,

2) Successful completion of MATH 115 Pre-Calculus (designed for students who intend to continue the study of mathematics); or,

3) Successful completion of any mathematics course above the 100 level except MATH 251 or MATH 252; or,

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

The requirement in mathematical competence must be completed by the end of the sophomore year.

BREADTH REQUIREMENTS

GROUP A. Analysis and appreciation of the creative arts and humanities.

Twelve credits of courses representing at least two departments or appropriate instructional units.

GROUP B. The study of culture and institutions over time.

Twelve credits of courses representing at least two departments or appropriate instructional units.

GROUP C. Empirically based study of human beings and their environment.

Twelve credits of courses representing at least two departments or appropriate instructional units.

GROUP D. The study of natural phenomena through experiment or analysis.

Thirteen credits of courses representing at least two departments or appropriate instructional units and including a minimum of one course with an associated laboratory.

A course may be applied 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.

COURSES APPROVED FOR BREADTH REQUIREMENTS

GROUP A

American Studies (AMST)

AMST 101 Introduction to American Civilization I
AMST 102 Introduction to American Civilization II
AMST 314 Introduction to Folklore and Folklore (cross-listed with CMLT 314 and ENGL 314)
AMST 317 American Philosophy (cross-listed with PHIL 317)
AMST 368 Literature and Science (cross-listed with CSCC 368 and ENGL 368)

Anthropology (ANTH)

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

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 and Moral Dimensions of 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 AMST 368 and ENGL 368)
CSCC 369 Literature and Medicine (cross-listed with ENGL 369)

Communication (COMM)

COMM 360 Oral Interpretation of Literature

Comparative Literature (CMLT)

CMLT 202 Biblical and Classical Literature (cross-listed with FLLT 202 and ENGL 202)
CMLT 217 Introduction to Film (cross-listed with ENGL 217)
CMLT 218 Introduction to Drama (cross-listed with ENGL 218)
CMLT 219 Introduction to the Novel (cross-listed with ENGL 219)
CMLT 314 Introduction to Folklore and Folklore (cross-listed with AMST 314 and ENGL 314)
CMLT 316 Classical Mythology (cross-listed with FLLT 316)
CMLT 320 Varying Authors and Genres (cross-listed with FLLT 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 FLLT 202 and CMLT 202)
ENGL 204 Great American Writers
ENGL 207 Introduction to Poetry
ENGL 208 Introduction to Drama (cross-listed with CMLT 218)
ENGL 209 Introduction to the Novel (cross-listed with CMLT 219)
ENGL 210 Short Story
ENGL 217 Introduction to Film (cross-listed with CMLT 217)
ENGL 314 Introduction to Folklore and Folklore (cross-listed with AMST 314 and CMLT 314)
ENGL 315 Ballad and Folksong
ENGL 324 Shakespeare
ENGL 327 English Bible
ENGL 368 Literature and Science (cross-listed with AMST 368 and CSCC 368)
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<th>Course Code</th>
<th>Course Title</th>
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<td>THEA 102</td>
<td>Introduction to Performance</td>
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<td>THEA 104</td>
<td>Introduction to Theatre and Drama</td>
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<td>THEA 106</td>
<td>The Theatrical Experience Abroad</td>
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<td>THEA 107</td>
<td>Introduction to Theatre Production</td>
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<td>THEA 108</td>
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<td>THEA 102</td>
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<td>Geography (GEOG)</td>
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<td>GEOG 203</td>
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<td>GEOG 204</td>
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<td>German (GRMN)</td>
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<td>(to be taught in German)</td>
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<td>Linguistics (LING)</td>
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<td>Music (MUSC)</td>
<td>MUSC 301</td>
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<td>POSC 333</td>
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<td>Theatre (THEA)</td>
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<td>THEA 102</td>
<td>Fundamentals of Dramaturgy</td>
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</table>

**University (UNIV)**

UNIV 400 Honors Tutorial: Humanities

**Women's Studies (WOMS)**

WOMS 204 Gender and Knowledge
WOMS 205 Women in the Arts and Humanities
WOMS 210 Women and Religion (cross-listed with PHIL 210)
WOMS 216 Introduction to Feminist Theory (cross-listed with PHIL 216)
WOMS 232 French Literature in Translation (cross-listed with FLLT 324)
WOMS 235 German Literature in Translation (cross-listed with FLLT 325)
WOMS 236 Hispanic Literature in Translation (cross-listed with FLLT 326)
WOMS 380 Women Writers (cross-listed with ENGL 380)

**GROUP B**

**American Studies (AMST)**

AMST 278 Historic Cultures of the Mid-Atlantic Region (cross-listed with ANTH 278 and HIST 278)
AMST 303 American Intellectual History (cross-listed with HIST 303)
AMST 304 American Intellectual History (cross-listed with HIST 304)
AMST 319 Revolutionary America (cross-listed with HIST 319)
AMST 322 The City in American Culture (cross-listed with ANTH 322 and HIST 322)
AMST 344 Black American Literature I (cross-listed with BAMS 313 and ENGL 344)
AMST 345 Black American Literature II (cross-listed with ENGL 345)

**Anthropology (ANTH)**

ANTH 101 American Intellectual History (cross-listed with AMST 319 and HIST 319)
ANTH 268 World Religions (cross-listed with PHIL 206)
ANTH 260 Sociocultural History of Africa (cross-listed with HIST 260)
ANTH 261 Peoples and Cultures of the Middle East (cross-listed with HIST 261)
ANTH 265 High Civilization of the Americas (cross-listed with HIST 265)
ANTH 278 Historic Cultures of the Mid-Atlantic Region (cross-listed with AMST 278 and HIST 278)
ANTH 322 The City in American Culture (cross-listed with AMST 322 and HIST 322)
ANTH 323 Prehistory of South America
ANTH 375 Peoples and Cultures of Modern Latin America

**Art History (ARTH)**

ARTH 153 Introduction to Art History I (cross-listed with AMST 319 and HIST 319)
ARTH 154 American Intellectual History (cross-listed with HIST 314)
ARTH 207 Origins of Art
ARTH 208 Greek and Roman Art
ARTH 209 Early Medieval Art A.D. 200-1000
ARTH 210 Later Medieval Art 1000-1400
ARTH 231 American Art: 1865-Present
ARTH 315 Modern Art: Nineteenth Century

**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 Black American Literature I (cross-listed with AMST 344 and ENGL 344)

**Center for Science and Culture (CSCC)**

CSCC 303 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)
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<td>ENGL 317</td>
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<tr>
<td>ENGL 321</td>
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<td>ENGL 345</td>
<td>Black American Literature II (cross-listed with AMST 345)</td>
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<td>FREN 302</td>
<td>Introduction to French Literature: Prose (to be taught in French)</td>
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<td>FREN 310</td>
<td>French Civilization I (to be taught in French)</td>
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<td>FREN 311</td>
<td>French Civilization II (to be taught in French)</td>
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<td>GEOG 225</td>
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<td>GEOG 225</td>
<td>Historical Geography of the United States</td>
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<td>GRMN 312</td>
<td>Introduction to German Literature I (to be taught in German)</td>
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<td>GRMN 325</td>
<td>German Civilization and Culture (to be taught in German)</td>
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<td>HIST 101</td>
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<td>HIST 102</td>
<td>Western Civilization to 1648</td>
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<td>HIST 134</td>
<td>History of Africa (cross-listed with BAMS 134)</td>
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<td>HIST 135</td>
<td>Latin America to 1830</td>
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<td>HIST 136</td>
<td>Latin America Since 1830</td>
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<td>HIST 137</td>
<td>East Asian Civilization: China</td>
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<td>HIST 205</td>
<td>United States History</td>
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<td>HIST 210</td>
<td>War and Society Since 1775</td>
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<td>HIST 278</td>
<td>Historic Cultures of the Mid-Atlantic Region (cross-listed with AMST 278 and ANTH 278)</td>
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<td>HIST 280</td>
<td>Science and Civilization</td>
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<td>HIST 300</td>
<td>American Intellectual History (cross-listed with AMST 303)</td>
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<td>HIST 304</td>
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<td>HIST 306</td>
<td>History of American Foreign Policy</td>
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<td>HIST 315</td>
<td>Postwar America: The United States Since 1945</td>
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<td>HIST 318</td>
<td>Colonial America, 1580-1777</td>
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<td>HIST 319</td>
<td>Revolutionary America, 1760-1787 (cross-listed with AMST 319)</td>
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<td>HIST 322</td>
<td>The City in American Culture (cross-listed with AMST 322 and ANTH 322)</td>
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<td>HIST 325</td>
<td>History of Black America to the Civil War (cross-listed with BAMS 304)</td>
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<td>HIST 326</td>
<td>History of Black America Since the Civil War (cross-listed with BAMS 306)</td>
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<td>HIST 330</td>
<td>Peasants and Revolution in Africa</td>
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<td>HIST 340</td>
<td>Ancient Near East and Greece</td>
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<td>Ancient Rome</td>
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<td>HIST 344</td>
<td>Renaissance Europe</td>
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<td>HIST 345</td>
<td>Europe in the Reformation Era: 1517 to 1648</td>
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<td>HIST 355</td>
<td>Early Modern Intellectual History</td>
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<td>Modern European Intellectual History</td>
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<td>HIST 359</td>
<td>Soviet Russia: 1917 to the Present</td>
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<td>HIST 374</td>
<td>History of England to 1715</td>
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<td>HIST 375</td>
<td>History of England: 1715 to Present</td>
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<td>HIST 382</td>
<td>History of Western Medicine (cross-listed with CSCC 382)</td>
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<td>HIST 383</td>
<td>History of Science and Medicine I</td>
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<td>History of Science and Medicine II</td>
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<td>HIST 387</td>
<td>Technology in Western Civilization I</td>
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<td>HIST 391</td>
<td>History of Modern China</td>
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<td>HIST 397</td>
<td>History of South Africa</td>
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<td>HIST 474</td>
<td>Studies in English History</td>
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<td>ITAL 310</td>
<td>Italian (ITAL)</td>
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<td>ITAL 311</td>
<td>Survey of Italian Literature (to be taught in Italian)</td>
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<td>ITAL 325</td>
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<td>ITAL 326</td>
<td>Italian Civilization and Culture</td>
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<td>MUSC 205</td>
<td>Music (MUSC)</td>
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<td>MUSC 206</td>
<td>Music of the Non-Western World</td>
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<td>MUSC 311</td>
<td>Music History: 400 through 1600</td>
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<td>Music History: 1600 through 1827</td>
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<td>MUSC 313</td>
<td>Music History: 1829 to the Present</td>
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<td>MUSC 345</td>
<td>History of Theatre: American Musical Theatre (cross-listed with THEA 345)</td>
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<td>PHIL 301</td>
<td>Philosophy (PHIL)</td>
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<td>PHIL 302</td>
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<td>PHIL 309</td>
<td>Indian Religion and Philosophy</td>
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<td>Chinese Religion and Philosophy</td>
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<td>POSC 311</td>
<td>Political Science (POSC)</td>
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<td>POSC 387</td>
<td>Politics of Developing Nations</td>
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<td>RUS 310</td>
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<td>RUS 312</td>
<td>Introduction to Russian Literature I (to be taught in Russian)</td>
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<td>Russian Civilization and Culture (to be taught in Russian)</td>
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<td>SPAN 212</td>
<td>Spanish Civilization and Culture (to be taught in Spanish)</td>
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SOCI 308 The Family
SOCI 310 Sociology of Health Care (cross-listed with CSCC 310)
SOCI 311 Hospitals (cross-listed with CSCC 311)
SOCI 317 Women in American Society (cross-listed with WOMS 317)
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 RAMS 361)
SOCI 362 Sociology of Mass Communication

Women's Studies (WOMS)
WOMS 201 Introduction to Women's Studies
WOMS 211 Men, Conflict, and Social Change (cross-listed with SOCI 211)
WOMS 265 Studies: Language (cross-listed with LING 265)
WOMS 307 Sociology of Sex and Gender (cross-listed with SOCI 307)
WOMS 317 Women in American Society (cross-listed with SOCI 317)
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 179 Viruses and Human Diseases
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
BISC 314 Brain and Behavior (cross-listed with PSYC 314)

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 105 General Computer Science
CISC 200 Introduction to Information Processing (CISC 300 alternate)
CISC 300 Introduction to Scientific Computation (alternate to CISC 200)

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 235 Geology of the Solar System
GEOL 243 Rocks and Minerals
GEOL 245 Volcanoes and Earthquakes

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)
PHIL 351 Mathematical Logic (alternate to PHIL 205)

Physics (PHYS)
PHYS 101 Introduction to Physics (duplicate credit with PHYS 104 which is not a Group D, PHYS 201, 207, and SCEN 101)
PHYS 102 Introduction to Physics (duplicate credit with PHYS 202, 208)
PHYS 133 Introduction to Astronomy
PHYS 134 Introduction to Astronomy
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 201 General Physics (duplicate credit with PHYS 101, 104 which is not in Group D, PHYS 207, and SCEN 101)
PHYS 202 General Physics (duplicate credit with PHYS 102, 208)
PHYS 207 General Physics (duplicate credit with PHYS 101, 104 which is not in Group D, PHYS 201, and SCEN 101)
PHYS 208 General Physics (duplicate credit with PHYS 102, 202)

Plant Science (PLSC)
PLSC 101 Botany I

Psychology (PSYC)
PSYC 314 Brain and Behavior (cross-listed with BISC 314)

Science (SCEN)
SCEN 101 Physical Science (duplicate credit with PHYS 101, 104 which is not in Group D, PHYS 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)
A brochure describing further information regarding the specific courses that are applicable and a detailed description of the objectives of each group is available from the Dean's Office. Questions on the application of courses to group requirements may be directed to the Dean's Office.

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

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

The faculty of the college have ruled that 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 of the programs listed above. 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 of the college. A minimum grade of C is necessary in all courses required for the double major.

**Interdepartmental Major.** Students whose goals and interests heavily involve materials from two departments but do not extend to all aspects of each subject area may work out and submit for the approval of both departments and the dean of the college an interdepartmental proposal. More detailed instructions on the Interdepartmental Major are available in the Dean's Office, but basically this major involves a minimum of 21 credits from each department with another nine credits that may be distributed in a number of ways. Examples of departments frequently combined in such programs are Communication and English or Political Science and Economics. With the approval of the other college or department, one area of the interdepartmental major may be from outside the College of Arts and Science.

A minimum grade of C is 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.

**Minor.** In addition to one of the major programs described above, 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 required in all courses for the minor.

**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 a committee of the College Faculty Senate that 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 pro-
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 one of whom will be the candidate’s adviser. Proposals should be submitted to the Dean’s Office by October 15 in the fall semester and by March 15 in the spring semester.

DEGREE: BACHELOR OF ARTS IN LIBERAL STUDIES

MAJOR: LIBERAL STUDIES

CURRICULUM

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 #

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ........................................................................... 3\(^{3,4}\)
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

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 80)

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

Students pursue a sequence of courses chosen with the aid of their faculty adviser and approved by the College Faculty Senate Committee on Special Academic Programs.

Sequence of courses that are consistent with the student’s educational goals as stated on the application to candidacy. Sixty credits must be at the 300 level or above. Student must devote at least 39 credits to the B.A.L.S program courses over and above general education and skill requirements.

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

NOTE: Deadline for application to the major is the end of the first semester of the junior year or before the completion of 75 credits. The minimum grade average at the time of application is 2.25.

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.

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 in the fall semester and by March 15 in the spring semester.

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

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.
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 on Associate degrees may be found in the Undergraduate Admissions section.

DEAN'S SCHOLAR PROGRAM

Each year the undergraduate colleges consider upon application a number of highly motivated students who have clear educational goals and the ability to achieve those goals and appoints them as 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 upon request.

HUMANITIES SEMESTER

The Humanities Semester at the University of Delaware offers students an opportunity to take, during a single semester, all or most of their courses in a carefully coordinated and conflict-free program of related studies in the humanities. Humanities Semesters typically center upon a major theme or chronological period, such as The Search for Identity, Classical Civilization, Medieval Culture, or The Black Experience. A unique aspect of the program is the student-faculty colloquium that caps each series of courses and meets once a week for reports, papers, discussions, and occasional presentations by visiting scholars. To qualify for a Humanities Semester colloquium a student must take (or have taken) at least two of the regular courses that are listed under the appropriate group. All of the courses in the Humanities Semester are open to any interested student.

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 127 Memorial Hall. All freshmen 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 committees with expertise 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.

TEACHER EDUCATION PROGRAMS

The College of Arts and Science offers teacher education programs in twenty-two 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, 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).

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

PREMEDICINE AND PREDENTISTRY

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

Preprofessional students usually begin their career-related course work in the first semester of the freshman year in order to complete the relevant courses before taking professional aptitude tests as juniors. Early academic advisement is essential to ensure that the preprofessional curriculum requirements are met. The Health Sciences Advisory Committee (Room 117A, Wolf Hall) coordinates advisory services for all students preparing for admission to health-related professional schools.

GENERAL

Physical Education. A maximum of two credits of PHED 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 a French 107; simi-
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.

Cross-listed Courses. The faculty of the college have ruled that 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.

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 Dean's Office, Room 127, Memorial 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

UNIVERSITY REQUIREMENTS

ENG 110 Critical Reading and Writing 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS

Skill Requirements

Writing:
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language:
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 examination.

Mathematics:
MATH 114 Elementary Mathematics and Statistics 3
(designated for students who do not intend to continue the study of mathematics)

or

MATH 115 Pre-Calculus 3
(designated 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 80)

Group A 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D 15
The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two courses including a minimum of one course with an associated laboratory.

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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.
MAJOR REQUIREMENTS

Within the Department

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 six credits must be taken at the 200 level and a minimum of twelve credits must be taken at the 300 level. It is recommended that students planning graduate study take at least one Readings in Anthropology course.

ELECTIVES

Electives

After required 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**

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ................................................................................................................ 3

A 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 may be taken in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language ............................................................................................ 0-12

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
(designated for students who do not intend to continue the study of mathematics)

or

MATH 115 Pre-Calculus ............................................................................... 3
(designated 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

Successful performance on the college proficiency exam.

Breadth Requirements? (See page 80)

Group A ........................................................................................................... 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas

Group B ........................................................................................................... 12
The study of culture and institutions over time. Twelve credits representing at least two areas

Group C ........................................................................................................... 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas

Group D ........................................................................................................... 13
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

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 six credits must be taken at the 200 level and a minimum of twelve credits must be taken at the 300 level. It is recommended that students planning graduate study take at least one Readings in Anthropology course.

Within the College

Economics course ......................................................................................... 3
Geography course ......................................................................................... 3
History course ............................................................................................... 3
Political Science course ................................................................................ 3
Sociology course ............................................................................................ 3

PSYC 201 General Psychology ................................................................. 3
Six additional credits selected from the departments listed above .................. 6

Professional Studies

EDST 201 Education and Society ................................................................. 3
EDST 304 Educational Psychology - Social Aspects ..................................... 3
EDST 305 Educational Psychology - Cognitive Aspects ............................... 3
HIST 491 Planning a Course of Instruction .................................................. 3
HIST 493 Seminar: Problems in Teaching History and .................................. 3

Social Sciences

EDST 420 Reading in the Content Areas ....................................................... 1
EDDV 400 Student Teaching ............................................................................ 9

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

Honors Program. Honors majors must complete a minimum of 30 credits of approved courses, including 18 Honors credits. All Honors majors must complete the following satisfactorily:

A. A minimum of 9 credits at the 200 level, including 3 Honors credits.

B. A minimum of 15 credits in 300- and 400-level courses, including 9 Honors credits. At least one Honors Seminar (ANTH 499) should be taken. Six

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

This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

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.

89
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 three undergraduate degrees: Bachelor of Arts (B.A.), Bachelor of Fine Arts (B.F.A.), and Bachelor of Science (B.S.) (in visual communication). The department offers two graduate degrees: Master of Arts (M.A.) and Master of Fine Arts (M.F.A.).

Admission to the B.S. in visual communication and B.F.A. are contingent upon submission of a portfolio of slides and/or original work after completion of the freshman year and a minimum of 15 credits of studio courses. A limited number of students are admitted to the programs.

The department enjoys an excellent reputation and has been ranked by an independent rating service as number fourteen among all college and university art programs in the nation. 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.

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**DEGREE: BACHELOR OF ARTS**

**MAJOR: ART**

**CURRICULUM**

**UNIVERSITY REQUIREMENTS**

**ENGL 110** Critical Reading and Writing .................................................. 3

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

**COLLEGE REQUIREMENTS**

**Skill Requirements**

Writing: ........................................... 3 3 4

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet

**Foreign Language** ........................................ 0-12 14

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

(for students who do not intend to continue the study of mathematics)

or

MATH 115 Pre-Calculus ........................................ 3

(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.

---

*Superior figures indicate year or years in which the course is normally taken, i.e., 4freshman year, 2 sophomore year, etc.

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
**Breadth Requirements† (See page 80)**

*Group A* ................................................................. 12-14
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

*Group B* ...................................................................... 12-14
The study of culture and institutions over time. Twelve credits representing at least two areas.

*Group C* ...................................................................... 12-14
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

*Group D* ...................................................................... 13-14
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‡**

*Foundations*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110 Foundation I Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 111 Foundation I Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 112 Foundation II Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

One required course selected from 2-D study:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 122 Introduction to Figurative Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ART 140 Introduction to Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 234 Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 244 Photography I</td>
<td>3</td>
</tr>
</tbody>
</table>

One required course selected from 3-D study:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 250 Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 254 Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 255 Metals I</td>
<td>3</td>
</tr>
<tr>
<td>ART 170 Basic Design: Fibers/CAD</td>
<td>3</td>
</tr>
</tbody>
</table>

*Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art courses</td>
<td>9-14</td>
</tr>
<tr>
<td>One course of 3-D Study selected from Sculpture, Ceramics, Fibers, or Metals</td>
<td></td>
</tr>
<tr>
<td>Art courses</td>
<td>9-14</td>
</tr>
<tr>
<td>One course of 2-D Study selected from Photography Painting, Printmaking, Drawing or Illustration</td>
<td></td>
</tr>
</tbody>
</table>

**Area of Concentration**

Art courses 9-14

Nine credits beyond those that might have been taken as part of foundations or core requirements. Six of these must be at or above the 300 level.

Art electives 6-14

**Within the College**

Art History courses 6-14

**ELECTIVES**

**Electives**

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

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

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**DEGREE: BACHELOR OF SCIENCE**

**MAJOR: VISUAL COMMUNICATION**

**CREDITS***

**UNIVERSITY REQUIREMENTS**

*ENGL 110 Critical Reading and Writing ........................................ 3

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.#

**COLLEGE REQUIREMENTS**

**Skill Requirements**

Writing: ............................................................................. 3-4

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**Mathematics:**

* MATH 114 Elementary Mathematics and Statistics .................. 3
  (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 .................................................. 3
    * MATH 241 Analytic Geometry and Calculus A ............... 4
    or
    * Successful performance on the college proficiency exam

*Breath Requirements*† (See page 80)

*Group A* ................................................................. 6-14
Understanding and appreciation of the creative arts and humanities.

*Group B* ...................................................................... 6-14
The study of culture and institutions over time

*Group C* ...................................................................... 6-14
Empirically based study of human beings and their environment.

*Group D* ...................................................................... 7-14
The study of natural phenomena through experiment and analysis. Seven credits including a minimum of one course with an associated laboratory.

**MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110 Foundation I Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 111 Foundation I Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 112 Foundation II Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

One required course selected from 2-D study:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 122 Illustration I</td>
<td>3</td>
</tr>
<tr>
<td>ART 140 Introduction to Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 234 Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 244 Photography I</td>
<td>3</td>
</tr>
</tbody>
</table>

One required course selected from 3-D study:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 170 Basic Design: Fibers/CAD</td>
<td>3</td>
</tr>
<tr>
<td>ART 250 Sculpture I</td>
<td>3</td>
</tr>
</tbody>
</table>

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

*Core courses must be taken in disciplines other than those experienced as part of the foundation requirements

*This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

*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.

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.
Required for Visual Communications majors:
- Concentrating in graphic design:
  - ART 305 Graphic Design 3
  - ART 307 Advertising Design 3
  - ART 402 Advanced Graphic Design I 6
  - ART 403 Advanced Graphic Design II 6

Required for Visual Communications majors:
- Concentrating in advertising design:
  - ART 305 Graphic Design 3
  - ART 307 Advertising Design 3
  - ART 404 Advanced Advertising Design I 6
  - ART 405 Advanced Advertising Design II 6

Within the College

**Related Work**
- Art History courses 9

**ELECTIVES**

Elections

After required 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

**DEGREE: BACHELOR OF FINE ARTS**

**MAJOR: FINE ARTS**

**CURRICULUM**

**UNIVERSITY REQUIREMENTS**

ENGL 110 Critical Reading and Writing 3

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

**COLLEGE REQUIREMENTS**

**Skill Requirements**

Writing:

A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

**Mathematics**

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

**Breadth Requirements** (See page 80)

**Group A**

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

**Group B**

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

**Group C**

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

**Group D**

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

**MAJOR REQUIREMENTS**

**Within the Department**

**Foundations**

- ART 110 Foundation I Drawing 3
- ART 111 Foundation I Design 3
- ART 112 Foundation II Drawing 3

One required course selected from 2-D study:

- ART 122 Illustration I 3
- ART 140 Introduction to Printmaking 3
- ART 234 Painting I 3
- ART 244 Photography I 3

One required course selected from 3-D study:

- ART 250 Sculpture I 3
- ART 254 Ceramics I 3
- ART 260 Metals I 3
- ART 170 Basic Design: Fibers/CAD 3

**Core**

- Art course
  - One course of 3-D Study selected from Sculpture, Ceramics, Fibers, or Metals.

**Art course**

- One course of 2-D Study selected from Photography Painting, Printmaking, Drawing or Illustration.

**ART Studio Major**

- 18

**ART Studio Minor**

- 9

**Art Department Electives**

- 12

**B.F.A. Senior Exhibition**

- 0

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

Core courses must be taken in disciplines other than those experienced as part of the foundation requirements.

This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26

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: 60 credits hours minimum Art Department courses; 80 credit hours maximum Art Department courses; all grades in art must be C or better.
Art history majors holding the B.A. degree may enter 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 museum conservation, or they may enroll in the technology of artistic and historic objects 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.

**ART HISTORY**

Art history is primarily concerned with the historical development of ideas and institutions as expressed in the tangible language of art throughout the ages. The Department offers courses in nearly every area of art history, but its faculty has special expertise in 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 general research and vocational objectives of the Winterthur Program in Early American Culture and the Department of Art Conservation. Visits to the nearby Winterthur Museum, which houses one of the largest and most comprehensive collections of early American arts, and to various other museums between New York and 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. Morris Library houses unique research materials, such as the Albert Pinkham Ryder Archive and a collection of rare books on Italian Futurism.
Breadth Requirements† (See page 80)

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

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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

ARTH 153 Introduction to Art History I 3
ARTH 154 Introduction to Art History II 3

Fifteen credits at the 200 level or above distributed as follows: 15

a. Ancient 3
b. Medieval (including Northern Renaissance) 3
c. Renaissance 3
d. Baroque or 18th Century 3
e. Modern 3

ARTH 301 Research and Methodology in Art History 3

Art History Seminar 3

Art History courses above 100-level 6

Within the College

Fifteen credits of related work as follows: 15

ENGL 202 Biblical and Classical Literature 3

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

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

ELECTIVES

Electives

After required 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 three courses at or above the 300 level. (One 100-level course may be counted in the total of 18 credits.) Students must distribute their courses among at least three of the following key areas of art history: Ancient, Medieval, Renaissance, Baroque, Modern, and American.

Several courses in art history may be applied toward fulfilling the group requirements in humanities and art for the B.A. degree.

ASTRONOMY

(See Physics and Astronomy)

BIOLOGICAL SCIENCES

(See School of Life and Health Sciences)

See also Animal Science and Agricultural Biochemistry, Entomology and Applied Ecology, and Plant and Soil Sciences in the College of Agricultural Sciences section.

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.

Chemists are working in research, product development, medicine, pollution control, sales, technical service, technical libraries, and industrial management. Graduate work or other specialized studies are necessary for certain types of work. Because of the large number of elective credits in the chemistry and biochemistry curriculum, 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.

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. There is an active chapter of the Student Affiliates of the American Chemical Society, which has technical and social functions during the year. 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

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ............................................................. 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content. #

COLLEGE REQUIREMENTS

Skill Requirements
Writing:
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language:
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
(designated for students who do not intend to continue the study of mathematics)

MATH 115 Pre-Calculus ......................................................................................... 3
(designated 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 80)

Group A. .................................................................................................................... 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. .................................................................................................................... 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. .................................................................................................................... 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. .................................................................................................................... 13
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
CHEM 103 General Chemistry ........................................................................ 4
CHEM 104 General Chemistry ........................................................................ 4
CHEM 220 Quantitative Analysis .................................................................... 3
CHEM 221 Quantitative Analysis Laboratory .................................................. 1

or

CHEM 111 General Chemistry ........................................................................ 3
CHEM 119 General Chemistry ........................................................................ 3
CHEM 119 Quantitative Chemistry I ................................................................. 2
CHEM 120 Quantitative Chemistry II ................................................................. 3
CHEM 321 Organic Chemistry ......................................................................... 3
CHEM 325 Organic Chemistry Laboratory ...................................................... 1
CHEM 822 Organic Chemistry ......................................................................... 3
CHEM 326 Organic Chemistry Laboratory ...................................................... 1

or

CHEM 331 Organic Chemistry ........................................................................ 3
CHEM 333 Organic Chemistry Laboratory I ...................................................... 2
CHEM 332 Organic Chemistry ........................................................................ 3
CHEM 334 Organic Chemistry Laboratory ...................................................... 1
CHEM 347 Instrumental Methods .................................................................... 3
CHEM 348 Instrumental Methods Laboratory ................................................ 1
CHEM 418 Introductory Physical Chemistry ..................................................... 3
CHEM 419 Introductory Physical Chemistry ..................................................... 3
CHEM 445 Physical Chemistry Laboratory ..................................................... 1

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
CHEM 527 Introductory Biochemistry ............................................................. 3
CHEM 620 Analytical Spectroscopy ................................................................ 3
CHEM 622 Electroanalytical Chemistry ........................................................... 3
CHEM 633 Advanced Organic Chemistry ......................................................... 3
CHEM 634 Advanced Organic Chemistry ......................................................... 3

Within the College

Related Work

Mathematics
MATH 221 Calculus I ........................................................................................ 3

or

MATH 241 Analytic Geometry and Calculus A (strongly preferred) ................. 4

Physics
PHYS 201 General Physics ............................................................................. 4
PHYS 202 General Physics ............................................................................. 4

or

PHYS 207 General Physics ............................................................................. 4
PHYS 208 General Physics ............................................................................. 4

ELECTIVES

Electives
After required 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., freshman year, sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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: CHEMISTRY EDUCATION

CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

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

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.#

COLLEGE REQUIREMENTS

Skill Requirements

Writing:........................................................................................................... 3

A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language:................................................................................... 0-12

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 (designed for students who do not intend to continue the study of mathematics) ............................................................................................................... 3

MATH 115 Pre-Calculus (designed for students who intend to continue the study of mathematics) .......................................................................................................................... 3

One of the following:

Group A

MATH 221 Calculus I.................................................................................. 3

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

Group B

MATH 242 Analytic Geometry and Calculus B........................................... 4

Group C

Successful performance on the college proficiency exam.

Breath Requirements! (See page 80)

Group A

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

Group B

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

Group C

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

Group D

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

(30 credits)

CHEM 111 General Chemistry...................................................................... 3

CHEM 112 General Chemistry...................................................................... 3

CHEM 119 Quantitative Chemistry I.............................................................. 2

CHEM 120 Quantitative Chemistry II............................................................ 3

or

CHEM 103 General Chemistry...................................................................... 4

CHEM 104 General Chemistry...................................................................... 4

CHEM 220 Quantitative Analysis.................................................................... 3

CHEM 221 Quantitative Analysis Laboratory................................................ 1

CHEM 213 Elementary Organic Chemistry.................................................. 4

or

CHEM 321 Organic Chemistry...................................................................... 3

CHEM 322 Organic Chemistry...................................................................... 3

CHEM 325 Organic Chemistry Laboratory................................................... 1

CHEM 321 Organic Chemistry...................................................................... 3

CHEM 332 Organic Chemistry...................................................................... 4

CHEM 333 Organic Chemistry Laboratory................................................... 1

CHEM 331 Organic Chemistry...................................................................... 3

CHEM 332 Organic Chemistry...................................................................... 4

CHEM 437 Instrumental Methods.................................................................... 3

CHEM 438 Instrumental Methods Laboratory ................................................ 1

CHEM 418 Introductory Physical Chemistry.................................................. 3

CHEM 445 Physical Chemistry Laboratory................................................... 3

CHEM 214 Elementary Biochemistry............................................................. 3

CHEM 216 Elementary Biochemistry Laboratory........................................... 1

Chemistry courses selected with consent of adviser...................................... 0-4

Within the College

Related Work

BISC 207 Introductory Biology I................................................................. 4

GEOL 105 General Geology......................................................................... 4

MATH 221 Calculus I.................................................................................... 3

MATH 222 Calculus II................................................................................... 3

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

MATH 242 Analytic Geometry and Calculus B.............................................. 4

PHYS 201 General Physics............................................................................ 4

PHYS 207 General Physics........................................................................... 4

PHYS 202 General Physics........................................................................... 4

PHYS 208 General Physics........................................................................... 4

Professional Studies

(23 credits)

EDST 201 Education and Society................................................................. 3

EDST 304 Educational Psychology - Social Aspects........................................ 3

EDST 305 Educational Psychology - Cognitive Aspects............................... 3

SCEN 491 Science Materials and Approaches.............................................. 4

EDST 420 Reading in the Content Areas...................................................... 1

EDDV 400 Student Teaching........................................................................ 9

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

DEGREE: BACHELOR OF SCIENCE
MAJOR: CHEMISTRY

CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

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

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.#
COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3/4
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 0-12/14
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 80)
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

CHEM 111 General Chemistry 3
CHEM 119 Quantitative Chemistry I 2
CHEM 112 General Chemistry 3
CHEM 120 Quantitative Chemistry II 3
CHEM 331 Organic Chemistry 3
CHEM 332 Organic Chemistry Laboratory I 2
CHEM 333 Organic Chemistry Laboratory II 2
CHEM 334 Organic Chemistry Majors Laboratory I 2
CHEM 437 Instrumental Methods 3
CHEM 438 Instrumental Methods Laboratory 1
CHEM 525 Introductory Biochemistry 3
CHEM 641 Biochemistry 3
CHEM 444 Physical Chemistry 3
CHEM 446 Physical Chemistry Laboratory 1
CHEM 457 Inorganic Chemistry 3
CHEM 458 Inorganic Chemistry Laboratory 1
CHEM 465 Seminar (two semesters) 2
Advanced Chemistry course at 600 level or higher 3/4
CHEM 468 Undergraduate Research (optional) 3/4

Within the College

Related Work

MATH 241 Analytic Geometry and Calculus A 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 302 Ordinary Differential Equations I 3
CHEM 201 General Physics 4
CHEM 202 General Physics 4

ELECTIVES

Electives
After required 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
Candidates for a B.S. in chemistry must achieve a cumulative GPA of at least 2.00 for all chemistry courses taken.

DEGREE: BACHELOR OF SCIENCE

MAJOR: BIOCHEMISTRY

CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3/4
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 0-12/14
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 80)
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

CHEM 111 General Chemistry 3
CHEM 119 Quantitative Chemistry I 2
CHEM 112 General Chemistry 3
CHEM 120 Quantitative Chemistry II 3
CHEM 331 Organic Chemistry 3
CHEM 332 Organic Chemistry Laboratory I 2
CHEM 333 Organic Chemistry Laboratory II 2
CHEM 437 Instrumental Methods 3
CHEM 438 Instrumental Methods Laboratory 1
CHEM 525 Introductory Biochemistry 3
CHEM 641 Biochemistry 3
CHEM 444 Physical Chemistry 3
CHEM 446 Physical Chemistry Laboratory 1
CHEM 457 Inorganic Chemistry 3
CHEM 458 Inorganic Chemistry Laboratory 1
CHEM 465 Seminar (two semesters) 2
Advanced Chemistry course at 600 level or higher 3/4
CHEM 468 Undergraduate Research (optional) 3/4

*Superior figures indicate semester (fall or spring) and/or years in which the course is normally taken, i.e., 19 fall of freshman year, 29 spring of sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

1A 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.

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CHEM 333 Organic Chemistry Laboratory I .............................. 2\textsuperscript{SF}
CHEM 332 Organic Chemistry .................................................. 3\textsuperscript{SF}
CHEM 334 Organic Chemistry Majors Laboratory II ................. 2\textsuperscript{SF}
CHEM 342 Introduction to Biochemistry ............................... 3\textsuperscript{SF}
CHEM 310 Computers in Chemistry (Recommended) ............... 3\textsuperscript{3}
CHEM 418 Introductory Physical Chemistry ......................... 3\textsuperscript{SF}
CHEM 445 Physical Chemistry ............................................. 3\textsuperscript{SF}
CHEM 437 Instrumental Methods .......................................... 3\textsuperscript{3}
CHEM 438 Instrumental Methods .......................................... 1\textsuperscript{3}
CHEM 641 Biochemistry ...................................................... 3\textsuperscript{SF}
CHEM 419 Introductory Physical Chemistry ......................... 3\textsuperscript{SF}
CHEM 444 Physical Chemistry ............................................. 3\textsuperscript{SF}
CHEM 445 Physical Chemistry Laboratory ......................... 1\textsuperscript{3}
CHEM 442 Biochemistry ...................................................... 3\textsuperscript{3}
Advanced Chemistry or Biochemistry course at 600 level ....... 3\textsuperscript{4}
Advanced Biochemistry courses at 600 level ..................... 6\textsuperscript{4}


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.

Any three of the following:

CHEM 220, 221 (or 437, 438) ................................................. 4
CHEM 321, 325 (or 331, 333) ................................................. 4\textsuperscript{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 help students develop an understanding of themselves and others as communicators, to increase knowledge about the communication process, to increase awareness of the responsibility and potential impact of communication on society, and to make students more competent in communicating with others and in assisting others to communicate more effectively.

Communication is viewed as a social and behavioral science. Courses are offered in the areas of interpersonal communication, small-group communication, public speaking, organizational communication, mass communication, public relations, and human communication theory.

The communication major is a junior-senior major. Students enter this major as communication interest majors and complete the four-course, two-year sequence (with a grade-point average of 2.75 or better) to qualify as communication majors.

Students who major in communication will plan with their assigned faculty adviser a program of courses, satisfactory to the department, leading to the degree of Bachelor of Arts. Further information may be obtained from the department.

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

CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ................................... 3\textsuperscript{1}
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content \# ............... 3\textsuperscript{1,4}

COLLEGE REQUIREMENTS
Skill Requirements
Writing ................................................................. 3\textsuperscript{3,4}
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language:............................................... 0-12
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
(deigned for students who do not intend to continue the study of mathematics)

or

MATH 115 Pre-Calculus ........................................... 3
(deigned 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

Successful performance on the college proficiency exam.

Breadth Requirements† (See page 80)

Group A. .......................................................... 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. .......................................................... 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. .......................................................... 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. .......................................................... 13
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

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

COMM 245 Mass Communication and Culture† ........................................ 3
COMM 256 Principles of Communication Theory† .................................... 3
COMM 301 Introduction to Communication Inquiry† ................................ 3
COMM 350 Communication and Social Behavior† .................................... 3
COMM 355 Public Speaking ...................................................... 3
COMM 361 Interpersonal Communication ........................................... 3
COMM 417 Communication and the Management of Conflict .................. 3
COMM 455 Symbolism in Organizations .......................................... 3
COMM 456 Communication in Organizations .................................... 3
One additional 400-level COMM course, not COMM 466 or 467 ............ 3
COMM 464, outside your concentration Six to 15 COMM elective credits ........................................... 6-15
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:

Interpersonal/Organizational Communication Electives

COMM 200 Introduction to Human Communication Systems .................. 3
COMM 251 The Development of Verbal Communication ....................... 3
COMM 320 Analysis of Intercultural 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 455.

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 409 Public Relations Communication Techniques ..................... 3
COMM 413 Public Relations Program Design .................................... 3

General Electives

COMM x66 Independent Study/Special Problems (366/466) .................... 1-6
COMM 469 Internship ...................................................... 1-6
COMM 491 Honors Reading in Communication .................................... 3
COMM 491 Honors Thesis ..................................................... 3
COMM x67 Experimental Courses (367/467) ...................................... 3

ELECTIVES

Electives

After required 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*

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing ......................................... 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.^

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ......................................................... 3-4
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language:

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.

*Superior figures indicate semester (fall or spring) and/or years in which the course is normally taken, i.e., 1st fall of freshman year, 2nd spring of sophomore year, etc.

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

‡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.
Mathematics:
MATH 114 Elementary Mathematics and Statistics 3
(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

Successful performance on the college proficiency exam.

Breadth Requirements
(See page 80)

Group A 12-14
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B 12-14
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C 12-14
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D 13-14
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

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

COMM 245 Mass Communication and Culture† 3
COMM 256 Principles of Communication Theory† 3
COMM 301 Introduction to Communication Inquiry† 3
COMM 330 Communication and Social Behavior† 3
COMM 350 Public Speaking 3
COMM 365 Legal Issues of the Mass Media 3
COMM 370 Theories of Mass Communication 3
COMM 424 Media Message Analysis 3
COMM 450 Mass Communication Effects 3
One additional 400-level COMM course, not COMM 466 or
COMM 464, outside your concentration.

Six to 15 COMM elective credits 6-15

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:

Interpersonal/Organizational Communication Electives
COMM 200 Introduction to Human Communication Systems 3
COMM 251 The Development of Verbal Communication 3
COMM 320 Analysis of Intercultural 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 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 490 Honors Reading in Communication 3
COMM 491 Honors Thesis 3
COMM x67 Experimental Courses (367/467) 3

ELECTIVES

Electives
After required 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*

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing ................................................................. 3 1-4
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

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.

Breadth Requirements† (See page 80)

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

CISC 180  Introduction to Computer Science I ................................................................. 3 
CISC 181  Introduction to Computer Science II ................................................................. 3 
CISC 220  Data Structures ................................................................. 3 
CISC 260  Machine Organization and Microcomputers ................................................................. 3 
Eighteen credits of Computer Science numbered 301 or above, approved by the student’s advisor.

Within the College

MATH 210  Discrete Mathematics I ................................................................. 3 
MATH 241  Analytic Geometry and Calculus A ................................................................. 4 
MATH 315  Discrete Mathematics II ................................................................. 3

ELECTIVES

Electives

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

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

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*Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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.
ECONOMICS

Economics is a social science that analyzes the market and non-market production and allocation of goods and services. It concerns itself with all the problems associated with society’s effort to prosper in a world possessing finite resources for the satisfaction of unlimited human desires.

The specific policy problems encountered in this study are varied, fascinating, and profoundly 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 potential solutions to, unemployment and inflation; (3) the problems and 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 the evaluation of government measures to regulate them; and (7) the advantages of, and problems associated with, international trade.

Economics is often confused with business administration. Economics and business administration courses both deal with the production and distribution of material goods and services. Both are concerned with business firms, with industrial organizations, and with government policies affecting such matters. They differ sharply, however, in both the methodology and viewpoint taken in these studies. Whereas, quite properly, the point of view of most business administration courses is that of the business firm and its well-being, the point of view of economics courses is that of society and society’s economic well-being. Economics focuses on the question of how individuals in society can improve their material well-being and society can achieve its economic goals.

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 below in addition to the concentration and related work requirements that apply to all economics majors.

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.

ECONOMICS

Economics is a social science that analyzes the market and non-market production and allocation of goods and services. It concerns itself with all the problems associated with society’s effort to prosper in a world possessing finite resources for the satisfaction of unlimited human desires.

The specific policy problems encountered in this study are varied, fascinating, and profoundly 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 potential solutions to, unemployment and inflation; (3) the problems and 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 the evaluation of government measures to regulate them; and (7) the advantages of, and problems associated with, international trade.

Economics is often confused with business administration. Economics and business administration courses both deal with the production and distribution of material goods and services. Both are concerned with business firms, with industrial organizations, and with government policies affecting such matters. They differ sharply, however, in both the methodology and viewpoint taken in these studies. Whereas, quite properly, the point of view of most business administration courses is that of the business firm and its well-being, the point of view of economics courses is that of society and society’s economic well-being. Economics focuses on the question of how individuals in society can improve their material well-being and society can achieve its economic goals.

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 below in addition to the concentration and related work requirements that apply to all economics majors.

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

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

COLLEGE REQUIREMENTS

Skill Requirements

Writing:
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language:
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 or 170 Elementary Mathematics and Statistics
(designed for students who do not 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.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

102
MATH 115 or 171 Pre-Calculus (designed for students who intend to continue the study of mathematics) or
or
One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
Successful performance on the college proficiency exam.

Breadth Requirements (See page 80)

Group A
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas 12-14

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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
ECON 151 Introduction to Microeconomics 31
ECON 152 Introduction to Macroeconomics 31
ECON 302 Money, Credit and Banking 3-34
ECON 401 Intermediate Microeconomic Theory 3-34
ECON 402 Intermediate Macroeconomic Theory 3-34
Six Economics courses, three of which are at or above the 400 level

Within the College
STAT 201 Introduction to Statistics I 31-4
or
STAT 370 Introduction to Statistical Analysis I 3
STAT 202 Introduction to Statistics II 31-4
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, Geography, History, Mathematics, Philosophy, Political Science, Psychology, Sociology and Statistics. Also acceptable are ACCT 207/208 and any 200-level Mathematics course.

ELECTIVES

Electives
After required 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

 Certain corresponding courses offered at different levels or difficulty will not be counted toward a degree if taken in reverse order of difficulty. These corresponding courses include ECON 311 and EC 411; ECON 332 and ECON 433; ECON 340 and ECON 443; ECON 360 and ECON 461; and ECON 381 and ECON 483. In addition, students may take these courses in order of difficulty only by rare exception and approval from the department chair.

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*

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing:
A 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 in the student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language:
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 or 170 Elementary Mathematics and Statistics 31
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115 or 171 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 80)

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

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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.

* Superior figures indicate year or years in which the course is normally taken, i.e., freshman year, sophomore year, etc.
# This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
† 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.

103
MAJOR REQUIREMENTS

Within the Department
ECON 151 Introduction to Microeconomics ........................................ 3
ECON 152 Introduction to Macroeconomics ........................................ 3
ECON 302 Money, Credit and Banking ................................................ 3
ECON 306 Intermediate Microeconomic Theory ................................. 3
ECON 303 Intermediate Macroeconomic Theory ................................. 3
Six Economics courses, three of which are at or above the 18
400 level

Within the College
STAT 201 Introduction to Statistics I ............................................... 3
or STAT 370 Introduction to Statistical Analysis I ............................. 3
STAT 202 Introduction to Statistics II ............................................ 3
or STAT 371 Introduction to Statistical Analysis II ............................. 3
PSYC 201 General Psychology ...................................................... 3

Fifteen credits in the following social sciences with at least 15
three credits in each department: Anthropology, Geography,
History, Political Science, International Relations, and
Sociology.

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

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

ENGLISH

The study of English offers students the opportunity to acquire a broad education that will prepare them to adapt to a wide variety of careers as well as to develop critical literacy abilities. Competence in the use of one's language and familiarity with the now world wide literatures in English are part of the serious study of literature and social forms. Skill in language strengthens one's ability to communicate cogently, no matter what the career or profession chosen; knowledge of literature is a key part of a liberal education and the source of considerable pleasure for those who enjoy reading and writing.

Today, a major in English language and literature is expected of those students who plan to enter the professions of publishing, journalism, and the teaching of English. English majors are to be found in the foreign service, civil service, academic administration, politics, library science, business, law, medicine, and religion. The strength of such preparation may be observed in almost all fields of endeavor.

The English Department at the University is fortunate to have a faculty consisting of over fifty full-time individuals who have distinguished themselves in teaching, scholarship, and creative writing. The faculty includes literary critics, editors, members of editorial boards, consultants, reviewers for publishers and journals, poets, and fiction writers. Almost all faculty work with both undergraduate and graduate students, and many of the faculty have won University teaching awards for superior teaching. Since most classes have fewer than 35 students, the faculty is easily accessible for consultation. Although all literary periods and genres are well represented, the regular faculty is exceptionally strong in modernist and American literature, new cultural studies of literature, and creative writing.

The regular faculty is augmented by visiting distinguished professors such as Pulitzer Prize winner James Wright, novelist Angus Wilson, eminent Shakespearean Derek Traversi, and internationally known scholar and critic David Daiches. 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 a literary magazine called Caesura. In addition, scholarly journals edited in the department include The Journal of Irish Literature, George Spelvin’s Theatre Book, and The D.H. Lawrence Review.

The department sponsors every year a series of creative writers and scholars who give readings and lectures on campus and spend a period of time with undergraduate students. Department faculty also offer colloquia to which all undergraduates are invited and in which the faculty discuss their own research projects and the work in which they are engaged. In conjunction with the University Honors Program, the department offers opportunities for undergraduate students to conduct research under the supervision of regular faculty. Outstanding students are also eligible to join Sigma Tau Delta, the national English honor society. Finally, the students give poetry and fiction readings, both with the faculty and by themselves.

The English Department has a widely varied undergraduate program. In the undergraduate literary and cultural 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 undergraduate curriculum is designed to insure that all required courses are regularly offered and that there is an extensive variety of offerings from the whole range of English, American and continental literatures from their origins to the most contemporary literature. Since 1978, the English Department has participated in a Semester-in-London program in which undergraduates live in London during a semester while taking courses in English literature and other allied disciplines.

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, 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.

DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH
CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ........................................ 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS
Skill Requirements
Writing ................................................................. 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet. Foreign Language ................................................. 0-12
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
(designated for students who do not intend to continue the study of mathematics) or MATH 115 Pre-Calculus .................................................. 3
(designated 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
Successful performance on the college proficiency exam.

Breadth Requirements? (See page 80)
Group A ..................................................................... 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.
Group B ..................................................................... 12
The study of culture and institutions over time. Twelve credits representing at least two areas.
Group C ..................................................................... 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.
Group D ..................................................................... 13
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
ENGL 202 Biblical and Classical Literature .................................... 3
ENGL 205 Great English Writers I ................................................. 3
ENGL 206 Great English Writers II ............................................... 3
ENGL 324 Shakespeare ............................................................. 3
or
ENGL 424 Studies in Shakespeare ................................................. 3
ENGL 340 American Literature to the Civil War ............................ 3
or
ENGL 341 American Literature: Civil War to World War II ................ 3
Twelve credits at the 300 level or above distributed as follows: 12
a. A course other than Shakespeare in Medieval or Renaissance literature.
b. A course in literature between 1700 and 1900.
c. A course in Modern literature.
d. A course in cultural and theoretical studies.

DEGREE: BACHELOR OF ARTS
MAJOR: ENGLISH
CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ........................................ 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

*Superior figures indicate year or years in which the course is normally taken, i.e., freshman year, sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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.
COLLEGE REQUIREMENTS

Skill Requirements

Writing: .......................................................... 3^4

A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: .............................................. 0.12^4

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
(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)

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 80)

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

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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
ENGL 202 Biblical and Classical Literature .................................. 3^4
ENGL 205 Great English Writers I ......................................... 3^4
ENGL 206 Great English Writers II ........................................ 3^4
ENGL 234 Shakespeare .................................................. 3^4

or

ENGL 424 Studies in Shakespeare ......................................... 3^4
ENGL 340 American Literature to the Civil War .......................... 3^4

or

ENGL 341 American Literature: Civil War to World War II .............. 3^4

Nine credits at the 300 level or above distributed as follows: ........... 9^4

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 two courses
ENGL 312 Written Communications in Business .......................... 3^4
ENGL 410 Technical Writing ............................................ 3^4

ENGL 411 Rhetoric for Business and Technical Writers .................. 3^4
ENGL 412 Business and Technical Publication ........................... 3^4
ENGL 464 Internship in Business/Technical Writing ...................... 3^4

Optional:
ENGL 414 Technical Editing .............................................. 3^4

or

ENGL 413 Topics in Technical Writing or one other EBT course ........ 3^4

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

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

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: .......................................................... 3^4

A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: .............................................. 0.12^4

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
(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)

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 80)

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

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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.

†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.

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

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

See page 26 for additional details.
Successful performance on the college proficiency exam.

Breadth Requirements† (See page 80)

Group A .......................................................... 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B .......................................................... 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C .......................................................... 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D .......................................................... 13
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

ENGL 202 Biblical and Classical Literature .................................................. 9
ENGL 205 Great English Writers I ................................................................. 9
ENGL 206 Great English Writers II ............................................................... 9
ENGL 324 Shakespeare .................................................................................. 9
or ENGL 424 Studies in Shakespeare ............................................................... 9
ENGL 340 American Literature to the Civil War ............................................. 9
or
ENGL 341 American Literature: Civil War to World War II .......................... 9

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

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

c. A literature course.

Students concentrating in film must take the following film courses:

ENGL 217 Introduction to Film ....................................................................... 9
ENGL 317 Film History ................................................................................... 9
ENGL 318 Studies in Film (variable content, may be repeated once) .............. 9
ENGL 417 Film Theory and Criticism ............................................................. 9

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

Electives
After required 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 3

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing ................................................................. 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language ................................................................. 0-12
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
(designated for students who do not intend to continue the study of mathematics)

or

MATH 115 Pre-Calculus ............................................................................. 3
(designated 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 80)

Group A .......................................................... 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B .......................................................... 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C .......................................................... 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D .......................................................... 13
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

ENGL 202 Biblical and Classical Literature .................................................. 3
ENGL 205 Great English Writers I ................................................................. 3
ENGL 206 Great English Writers II ............................................................... 3

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

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

‡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.

107
ENGL 324 Shakespeare ................................................. 3-1-4
or
ENGL 424 Studies in Shakespeare ...................................... 3-3,4
ENGL 340 American Literature to the Civil War .................. 3-1-4
or
ENGL 341 American Literature: Civil War to World War II ....... 3-2,5
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.

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:
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 460 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 num-
ber of credits for the major.

ELECTIVES
Electives
After required 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

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.

COLLEGE REQUIREMENTS

Skill Requirements
Writing: 3-3,4
A 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 in a stu-
dent's junior or senior year. Appropriate writing courses are
normally designated in the semester's Registration Booklet.

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 require-
ment in that language by taking an exemption examination.

Mathematics:
MATH 114 Elementary Mathematics and Statistics ............ 3,1
(designated for students who do not intend to continue the study
of mathematics)
MATH 115 Pre-Calculus ................................................. 3
(designated for students who intend to continue the study of
mathematics)
One of the following:
MATH 221 Calculus I .................................................. 3
MATH 241 Analytic Geometry and Calculus A ................. 4
Successful performance on the college proficiency exam.

Breadth Requirements† (See page 80)

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 environ-
ment. 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 associat-
ed laboratory

MAJOR REQUIREMENTS

Within the Department†
ENGL 202 Biblical and Classical Literature ................. 3-1,4
ENGL 205 Great English Writers I ............................ 3-1,4
ENGL 206 Great English Writers 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 Introduction to the English Language ............ 3-1,4
Three English courses at the 300 level or above .............. 9-1-4
distributed as follows:

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, 312, or 350 or THEA 102, 204, 226, or 560 ........ 3-1,4
One of the following six courses:
ENGL 494 History of the English Language .................. 3
LING 490 Linguistic Theory ............................................ 3
LING 491 Semantics I ..................................................... 3
LING 495 Modern English Grammars ......................... 3
LING 497 Sociolinguistics of English in the Inner City .... 3
LING 498 Teaching English as a Second Language ........ 3

Professional Studies
EDST 301 Education and Society .................................... 3
EDST 304 Educational Psychology - Social Aspects ......... 3-1,4
EDST 305 Educational Psychology - Cognitive Aspects .... 3-1,4
EDDV 403 Adolescent Literature ................................... 3
ENGL 383 Teaching Composition in Secondary School .... 3-1,4

*Superior figures indicate year or years in which the course is normally taken, i.e., 1freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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.
ENGL 384 Teaching English in Secondary School .................................. 3
ENGL 481 Seminar in Teaching English ............................................. 3
EDDV 400 Student Teaching ............................................................... 3

**ELECTIVES**

**Electives**

After required 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 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, 924 and two additional courses in literature and composition above the 200 level. One course must be in British/World Literature, and one course must be in American Literature, Cultural and Theoretical Studies. By earning 15 credits in recommended courses at or above 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); an Honor thesis; and a comprehensive examination in the senior year.

**FOREIGN LANGUAGES AND LITERATURES**

**Modern.** Improved means of international communication place great demands on young people. Almost all spheres of human activity—from business to politics to humanistic studies—have developed international aspects critical to their functioning. To be fully prepared to meet the increasing competition that comes from abroad in all these areas, we must be able to understand other people's patterns of thought and action. The surest way to achieve this understanding is by learning how to speak other languages. Monolingualism is an obvious disadvantage in a world that is becoming increasingly multilingual.

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 taught together, 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.

The study of other languages has always been an important component of higher education. Many disciplines call for some degree of fluency in one or more foreign languages as a requirement for an advanced degree. These disciplines are found in the social and physical sciences as well as in the humanities. The significance of foreign language study is recognized in a number of nonacademic professions as well. Knowledge of a language other than English puts the specialist in international business at a distinct advantage in dealing with persons from other countries. In government work, the Foreign Service of the State Department lists positions that stipulate specific foreign language skills. Translators and interpreters are employed by the courts, advertising agencies, banks, broadcasting networks, and international publishing houses.

All majors 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 fragmentation of society has produced an array of specialists who contribute in turn to that fragmentation; the study of the classics speaks to the need for coherence. 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 one for effective action in any profession. 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.

The teaching of the classics will, of course, be the goal of some who select this major, whether they look to secondary education or to graduate school. However, that application by no means exhausts the possibilities. Students who intend to enter the field of law, theology, or medicine will find it appropriate, and it is no less a desirable choice as a major or a field of concentration for future writers, businessmen, and public servants. The program will commend itself to all who observe that a civilization, like a tree, draws its strength from its roots.

**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-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 Officer.

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.

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, 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: FOREIGN LANGUAGES AND LITERATURES

CONCENTRATION: CLASSICS

CURRICULUM

UNIVERSITY REQUIREMENTS

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

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ................................................................................................. 3

A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: ............................................................................. 0-12

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

(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

Successful performance on the college proficiency exam.

Breadth Requirements (See page 80)

Group A ................................................................................................. 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas

Group B ................................................................................................. 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C ................................................................................................. 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D ................................................................................................. 13
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

ARSC 360 Humanities Colloquium .................................................... 3
GREG 101 Elementary Greek ............................................................. 3
GREG 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.

FLLT 316 Classical Mythology ............................................................. 3

FLLT 322 Topics: Classical Literature in Translation .......................... 3

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.

ELECTIVES

Electives

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

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

DEGREE: BACHELOR OF ARTS

MAJOR: HISTORY/CLASSICS

For the complete curriculum, see Department of History. The major requirements follow.

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.

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

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

* 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.
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.

DEGREE: BACHELOR OF ARTS
MAJOR: CLASSICS EDUCATION

CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ........................................ 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

COLLEGE REQUIREMENTS

Skill Requirements
Writing ........................................................................ 3,4

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: ......................................................... 0-12,4
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
(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 80)

Group A ........................................................................ 12,4
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B ........................................................................ 12,4
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C ........................................................................ 12,4
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D ........................................................................ 13,4
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.

*Superior figures indicate year or years in which the course is normally taken, i.e., 1freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
1A 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: 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), students should see their adviser or the associate chair of the department.

CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ........................................ 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

COLLEGE REQUIREMENTS

Skill Requirements
Writing ........................................................................ 3,4

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: ......................................................... 0-12,4
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
(designed for students who do not intend to continue the study of mathematics)
or

*Superior figures indicate year or years in which the course is normally taken, i.e., 1freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
1A 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.

111
MAJOR REQUIREMENTS

Within the Department

Twelve credits in FREN electives at the 200 level and above .......... 12-14
Twelve credits in FREN literature at the 300 or 400 level .......... 12-14
(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, 12-15-14
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

Electives

After required 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: HISTORY/FRENCH

For the complete curriculum, see Department of History. The major requirements follow.

MAJOR REQUIREMENTS

Within the Department of History

HIST 101 Western Civilization to 1648 ........................................ 3

HIST 102 Western Civilization: 1648 to the Present .................... 3-14

Five 300-level courses, at least two of which must deal with countries that use the chosen foreign language ........................................ 15-14

History seminar at the 400 level or above .................................. 3-14

(excluding HIST 491 and 493 and Independent Study)

Within the Department of Foreign Languages and Literatures

Civilization: FREN 310 (French Civilization), or FREN 311
(French Civilization) or FREN 312 (Contemporary France) ............. 3-14

Literature: FREN 301 (Introduction to French Literature: Prose) and FREN 302 (Introduction to French Literature: Poetry and Theatre) ............. 6-14

400-level literature course ..................................................... 3-14

Two courses at the 200, 300, or 400 level .................................. 6-14


DEGREE: BACHELOR OF ARTS

MAJOR: FRENCH EDUCATION

CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

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

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ................................................................................. 3-14

A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: ................................................................ 0-12-14

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 examination exemption.

Mathematics:

MATH 114 Elementary Mathematics and Statistics ...................... 3

(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 80)

Group A ................................................................................ 12-14

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

Group B ................................................................................ 12-14

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

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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.

112
MAJOR REQUIREMENTS

Within the Department

FREN 201 French Reading & Composition: Short Story .................. 3\textsuperscript{1-4} or
FREN 202 French Reading & Composition: Theatre .................. 3\textsuperscript{1-4}
FREN 301 French Literature: Poetry & Theatre .................. 3\textsuperscript{1-4}
FREN 302 French Literature: Prose .................. 3\textsuperscript{1-4}
FREN 304 French Phonetics .................. 3\textsuperscript{1-4}

One of the following courses:

FREN 305 Intensive French Composition .................. 3\textsuperscript{1-4}
FREN 306 Practical Oral/Written Expression .................. 3\textsuperscript{1-4}
FREN 307 Advanced French Conversation .................. 3\textsuperscript{1-4}

Two of the following courses:

FREN 308 Contemporary France II .................. 3\textsuperscript{1-4}
FREN 310 French Civilization I .................. 3
FREN 311 French Civilization II .................. 3
FREN 312 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\textsuperscript{1-4}

Professional Studies

EDST 201 Education and Society .................. 3
EDST 304 Educational Psychology - Social Aspects .................. 3
EDST 305 Educational Psychology - Cognitive Aspects .................. 3
LING 421 Methods of Teaching Foreign Language .................. 3
LING 422 Language Syllabus Design .................. 3
LING 424 Second Language Testing .................. 3
EDDV 400 Student Teaching .................. 9

ELECTIVES

Electives

After required 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), students should see their adviser or the associate chair of the department.

CURRICULUM

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing .................. 3\textsuperscript{1}
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

COLLEGE REQUIREMENTS

Skill Requirements

Writing .................. 3\textsuperscript{1,4}

A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: .................. 0-12\textsuperscript{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\textsuperscript{1}
(designated for students who do not intend to continue the study of mathematics)

or

MATH 115 Pre-Calculus .................. 3
(designated 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 80)

Group A .................. 12\textsuperscript{1,4}

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

Group B .................. 12\textsuperscript{1,4}

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

Group C .................. 12\textsuperscript{1,4}

Empirically based study of human beings and their environment. Twelve credits representing at least two areas including a minimum of one course with an associated laboratory

Group D .................. 13\textsuperscript{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

Twelve credits in GRMN electives at the 200 level and above .................. 12\textsuperscript{1,4}
Twelve credits in GRMN literature at the 300 or 400 level .................. 12\textsuperscript{1,4}
(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\textsuperscript{1,4}

chosen with prior approval of the adviser and according to

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

‡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.
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**

*Electives*

After required 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: HISTORY/GERMAN**

For the complete curriculum, see Department of History. The major requirements follow.

**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 3
(excluding HIST 491 and 493 and Independent Study)

**Within the Department of Foreign Languages and Literatures**

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

**DEGREE: BACHELOR OF ARTS**

**MAJOR: GERMAN EDUCATION**

**CURRICULUM**

**CREDITS**

**UNIVERSITY REQUIREMENTS**

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

**COLLEGE REQUIREMENTS**

**Skill Requirements**

*Writing* 3

A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

**Foreign Language** 0-12

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
(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 80)

*Group A* 12

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

*Group B* 12

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

*Group C* 12

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

*Group D* 13

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**

GRMN 205 German Conversation 3
GRMN 211 German Reading and Composition: Short Fiction 3
GRMN 212 German Reading and Composition: Drama 3
GRMN 305 German Conversation and Composition 3
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
GRMN 325 German Civilization and Culture 3
GRMN 340 Focus on Genre: German Drama, Prose or Poetry 3
and
GRMN 355 Special Topics 3

One of the following courses:

GRMN 404 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

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

*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.

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FOREIGN LANGUAGES AND LITERATURES • COLLEGE OF ARTS AND SCIENCE

Professional Studies
EDST 201 Education and Society ........................................... 3
EDST 304 Educational Psychology - Social Aspects .......................... 3
EDST 305 Educational Psychology - Cognitive Aspects ....................... 3
LING 421 Methods of Teaching Foreign Language ............................ 3
LING 422 Language Syllabus Design ............................................ 3
LING 424 Second Language Testing ............................................. 3
EDDV 400 Student Teaching ..................................................... 9

ELECTIVES
Electives
After required 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 (area studies, period studies), students should see their adviser or the associate chair of the department.

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ....................................... 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content. #

COLLEGE REQUIREMENTS
Skill Requirements
Writing: .............................................................................. 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: .......................................................... 0-12
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
(designated for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus ....................................................... 3
(designated 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 80)
Group A .................................................................................. 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B .................................................................................. 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C .................................................................................. 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D .................................................................................. 13
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
Twelve credits in ITAL electives at the 200 level and above ................. 12
Twelve credits in ITAL 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: Italian, Anthropology, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Linguistics, Music, Philosophy, Political Science, Theatre.

ELECTIVES
Electives
After required 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: LATIN STUDIES

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

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ....................................... 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content. #

or

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

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

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ....................................... 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content. #

*Superior figures indicate year or years in which the course is normally taken, i.e., 1st year, 2nd year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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.
**COLLEGE REQUIREMENTS**

**Skill Requirements**

**Writing:** 3-4

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**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 examination 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
- Successful performance on the college proficiency exam.

**Breadth Requirements** (See page 80)

**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** 13-14

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**

Twelve credits in LATN electives at the 200 level and above .. 12-14

Twelve credits in LATN literature at the 300 or 400 level .. 12-14

(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 1-4

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.

**ELECTIVES**

**Electives**

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

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**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.

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**DEGREE: BACHELOR OF ARTS**

**MAJOR: LATIN EDUCATION**

**CURRICULUM**

**CREDITS**

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**UNIVERSITY REQUIREMENTS**

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

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

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**COLLEGE REQUIREMENTS**

**Skill Requirements**

**Writing:** 3-4

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**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 examination 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
- Successful performance on the college proficiency exam.

**Breadth Requirements** (See page 80)

**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** 13-14

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.

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 25.

†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.
MAJOR REQUIREMENTS

Within the Department

LATN 2xx .......................... 6
LATN 321 Latin Prose Composition .......... 1
and
LATN 322 Latin Prose Composition .......... 1
LATN 3xx and/or LATN 4xx ................. 9
LATN 421 Advanced Latin Prose Composition .... 1
and
LATN 422 Advanced Latin Prose Composition .... 1
LATN 431 History of Latin Literature .......... 1
and
LATN 432 History of Latin Literature .......... 1
LATN 4xx .......................... 9

Professional Studies

EDST 201 Education and Society ............ 3
EDST 304 Educational Psychology – Social Aspects ... 3
EDST 305 Educational Psychology – Cognitive Aspects ... 3
LING 421 Methods of Teaching Foreign Language .... 3
LING 422 Language Syllabus Design .......... 3
LING 424 Second Language Testing .......... 3
EDDV 400 Student Teaching .................. 9

ELECTIVES

Electives

After required 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), students should see their adviser or the associate chair of the department.

CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ................................ 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: .......................... 0-12
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
(designated for students who do not intend to continue the study of mathematics)

or

MATH 115 Pre-Calculus ................................ 3
(designated 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

Successful performance on the college proficiency exam

Breadth Requirements† (See page 80)

Group A ........................................ 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas

Group B ........................................ 12
The study of culture and institutions over time. Twelve credits representing at least two areas

Group C ........................................ 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D ........................................ 13
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

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

Within the College

A total of nine credits at the 200 level or above, chosen ................. 9
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.

ELECTIVES

Electives

After required 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.

* Superior figures indicate year or years in which the course is normally taken, i.e., 1freshman year, 2sophomore year, etc.
# This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
† 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: HISTORY/RUSSIAN

For the complete curriculum, see Department of History. The major requirements follow.

MAJOR REQUIREMENTS

Within the Department of History
HIST 101  Western Civilization to 1648 ........................................ 3.14
HIST 102  Western Civilization: 1648 to the Present ......................... 3.14
Five 300-level courses, at least two of which must deal with
countries that use the chosen foreign language .................. 15.14
History seminar at the 400 level or above ................................ 3.14
(excluding HIST 491 and 493 and Independent Study)

Within the Department of Foreign Languages and Literatures
Civilization: RUSS 325 (Russian Civilization) .................................... 3.14
Literature: RUSS 310 (Introduction to Russian Literature I)
and RUSS 312 (Introduction to Russian Literature II) .............. 6.14
400-level literature course ................................................................. 3.14
Two courses at the 200, 300, or 400 level ........................................ 6.14

DEGREE: BACHELOR OF ARTS  
MAJOR: RUSSIAN 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. .............................. 3.14

COLLEGE REQUIREMENTS

Skill Requirements

Writing:  .......................................................................................... 3.14
A 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 in a stu-
dent’s junior or senior year. Appropriate writing courses are
normally designated in the semester’s Registration Booklet.

Foreign Language:  ............................................................................... 0-12.14
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 require-
ment in that language by taking an exemption examination.

Mathematics:
MATH 114  Elementary Mathematics and Statistics .......................... 3.1
(designated for students who do not intend to continue the study of
mathematics)  
or
MATH 115  Pre-Calculus ................................................................. 3
(designated 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

Successful performance on the college proficiency exam.

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 and Society .................................................. 3
EDST 304  Educational Psychology – Social Aspects ....................... 3
EDST 305  Educational Psychology – Cognitive Aspects ................. 3
LING 421  Methods of Teaching Foreign Language ...................... 3
LING 422  Language Syllabus Design .............................................. 3
LING 424  Second Language Testing ............................................... 3
EDDV 400  Student Teaching ............................................................ 9

ELECTIVES

Electives
After required 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 cul-
ture, Spanish area studies, Latin American area studies, peri-
od studies), students should see their adviser or the associ-
CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements
Writing: ......................................................... 3
A writing course involving significant writing experience
including two papers with a combined minimum of 500
words to be submitted for extended faculty critique of both
composition and content. This course must be taken in a stu-
ent’s junior or senior year. Appropriate writing courses are
normally designated in the semester’s Registration Booklet.

Foreign Language: ........................................ 0-12
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 require-
ment in that language by taking an exemption examination.

Mathematics
MATH 114 Elementary Mathematics and Statistics 3
(designated for students who do not intend to continue the study
of mathematics)
or
MATH 115 Pre-Calculus 3
(designated 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 80)

Group A ......................................................... 12
Understanding and appreciation of the creative arts and
humanities. Twelve credits representing at least two areas.

Group B ......................................................... 12
The study of culture and institutions over time. Twelve credits
representing at least two areas.

Group C ......................................................... 12
Empirically based study of human beings and their environ-
ment. Twelve credits representing at least two areas.

Group D ......................................................... 13
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
Twelve credits in SPAN electives at the 200 level and above 12
Twelve credits in SPAN 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: Spanish,

*Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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.
‡Students must choose either the Peninsular (211, 301, 302) or the Latin American (212, 303, 304) track.

DEGREE: BACHELOR OF ARTS

MAJOR: SPANISH EDUCATION

CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements
Writing: ......................................................... 3
A writing course involving significant writing experience
including two papers with a combined minimum of 500
words to be submitted for extended faculty critique of both
composition and content. This course must be taken in a stu-

ELECTIVES

Electives
After required 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: HISTORY/SPANISH

For the complete curriculum, see Department of History. The major
requirements follow.

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 3
(excluding HIST 491 and 495 and Independent Study)

Within the Department of Foreign Languages and Literatures**
Civilization: SPAN 211 (Spanish Civilization and Culture) or
SPAN 212 (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 6
Two courses at the 200, 300, or 400 level 6

DEGREE: BACHELOR OF ARTS

MAJOR: SPANISH LANGUAGE

CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements
Writing: ......................................................... 3
A writing course involving significant writing experience
including two papers with a combined minimum of 500
words to be submitted for extended faculty critique of both
composition and content. This course must be taken in a stu-

*Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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.
‡Students must choose either the Peninsular (211, 301, 302) or the Latin American (212, 303, 304) track.

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dent’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**Foreign Language:**
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 .......................... 31 (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)

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 80)**

- **Group A** .............................................................................. 121-4 Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

- **Group B** .............................................................................. 121-4 The study of culture and institutions over time. Twelve credits representing at least two areas.

- **Group C** .............................................................................. 121-4 Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

- **Group D** .............................................................................. 131-4 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**
  - SPAN 203 Spanish Reading and Composition .......................... 3

  or

  - SPAN 204 Spanish Composition and Grammar ...................... 3

  One of the following courses:
  - SPAN 211 Spanish Civilization and Culture ......................... 3

  - SPAN 212 Latin American Civilization and Culture .............. 3

  - SPAN 308 Contemporary Spain II ........................................ 3

  Any three of the following four literature survey courses:
  - SPAN 301 Survey of Spanish Literature ............................... 3

  - SPAN 302 Survey of Spanish literature ............................... 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

  - LING 431 Applied Spanish Linguistics .............................. 3

  Six credits in SPAN literature at the 400 level ..................... 6

- **Professionals Studies**
  - EDST 201 Education and Society ......................................... 3

  - EDST 304 Educational Psychology – Social Aspects ............ 3

  - EDST 305 Educational Psychology – Cognitive Aspects ....... 3

  - LING 421 Methods of Teaching Foreign Language .............. 3

  - LING 422 Language Syllabus Design .................................. 3

  - LING 424 Second Language Testing ................................... 3

  - EDDV 400 Student Teaching ............................................. 9

**ELECTIVES**

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

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

**DEGREE: BACHELOR OF ARTS**

**MAJOR: FOREIGN LANGUAGES AND LITERATURES**

**CONCENTRATION: THREE LANGUAGES**

**CURRICULUM CREDITS**

**UNIVERSITY REQUIREMENTS**

ENGL 110 Critical Reading and Writing ..................................... 31

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

**COLLEGE REQUIREMENTS**

**Skill Requirements**

Writing: ................................................................................. 33,4 A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**Foreign Language:** .................................................................. 0-121-4 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 .................. 31 (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)

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 80)**

- **Group A** .............................................................................. 121-4 Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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.
Group B
The study of culture and institutions over time. Twelve credits representing at least two areas. 12\(\text{14}\)

Group C
Empirically based study of human beings and their environment. Twelve credits representing at least two areas. 12\(\text{14}\)

Group D
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. 13\(\text{14}\)

MAJOR REQUIREMENTS

Within the Department

First Language
Six first-language elective credits at the 200 level and above 6\(\text{14}\)
Nine credits in literature at the 300 and 400 level 9\(\text{14}\)
(at least three credits at each level)
Three additional credits at the 400 level 3\(\text{14}\)

Second Language
Six second-language elective credits at the 200 level and above 6\(\text{14}\)
Nine credits in literature at the 300 and 400 level 9\(\text{14}\)
(at least three credits at each level)
Three additional credits at the 400 level 3\(\text{14}\)

Third Language
Nine to eleven credits of language courses (at least three credits at or above the 200 level for Western language). 9\(\text{111-4}\)

Related Work
Three credits in Linguistics at the 200, 300, or 400 level 3\(\text{14}\)
Three credits from 200-, 300-, or 400-level courses (including courses in translation) in Foreign Languages and Literatures, Comparative Literature, or Linguistics, selected in consultation with the adviser. 3\(\text{14}\)

ELECTIVES

Electives
After required 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*

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing 3\(\text{1}\)
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content. # 3\(\text{14}\)

COLLEGE REQUIREMENTS

Skill Requirements

Writing:
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet. 3\(\text{34}\)

Foreign Language:
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\(\text{1}\)
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4

or

One of the following:
MATH 115 Pre-Calculus 3
MATH 241 Analytic Geometry and Calculus A 4

or

Successful performance on the college proficiency exam.

Breadth Requirements
(See page 80)

Group A
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas. 12\(\text{14}\)

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas. 12\(\text{14}\)

Group C
Empirically based study of human beings and their environment. Twelve credits representing at least two areas. 12\(\text{14}\)

Group D
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. 13\(\text{14}\)

MAJOR REQUIREMENTS

Within the Department

First Language
Six first-language elective credits at the 200 level and above 6\(\text{14}\)
Nine credits in literature at the 300 and 400 level 9\(\text{14}\)
(at least three credits at each level)
Three additional credits at the 400 level 3\(\text{14}\)

Second Language
Six second-language elective credits at the 200 level and above 6\(\text{14}\)
Nine credits in literature at the 300 and 400 level 9\(\text{14}\)
(at least three credits at each level)
Three additional credits at the 400 level 3\(\text{14}\)

Third Language
Nine to eleven credits of language courses (at least three credits at each level) at or above the 200 level for Western language. 9\(\text{111-4}\)

Related Work
Three credits in Linguistics at the 200, 300, or 400 level 3\(\text{14}\)
Three credits from 200-, 300-, or 400-level courses (including courses in translation) in Foreign Languages and Literatures, Comparative Literature, or Linguistics, selected in consultation with the adviser. 3\(\text{14}\)

* Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
# This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
† 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.
ELECTIVES
Electives
After required 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

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

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

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

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

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

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

It is important to note that only 12 credits of the same elementary/intermediate language will be counted towards the degree.

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.

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

Waivers or substitutions for any requirements may be made upon recommendation of the adviser and approval of the department chair.

MINORS
A minor in a foreign language requires a minimum of 18 credits at the 200 level and above, 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 two 300-level courses, one 400-level literature course, and one other 400-level course.

ITALIAN: 18 credits composed of two Italian 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., in Italian art history, history, linguistics, etc.).

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: 18 credits including SPAN 203 or SPAN 204 and an additional 200-level course; two 300-level courses (one must be a Survey of Literature); and two 400-level courses.

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 will be appointed for each language to help students tailor the chosen minor program to their needs.

A minor in French Studies, German Studies, or Spanish Studies requires a minimum of 21 credits at the 200-level and above, as follows:

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

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.
GEOGRAPHY • COLLEGE OF ARTS AND SCIENCE

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

DEGREE: BACHELOR OF ARTS
MAJOR: GEOFGRAPHY
CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ........................ 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #.

COLLEGE REQUIREMENTS
Skill Requirements
Writing: 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Mathematics:
MATH 114 Elementary Mathematics and Statistics ............. 3 (designed for students who do not intend to continue the study of mathematics)
or
MATH 115 Pre-Calculus ............................................ 3 (designated for students who intends 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 80)
Group A 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

*Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 25.
* A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

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COLLEGE OF ARTS AND SCIENCE • GEOGRAPHY

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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
Six credits selected from the following natural geography courses:
GEOG 101 Physical Geography .................................... 3
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 250 Computer Methods in Geography .................. 4
GEOG 255 Applied Climatology .................................. 3
Six credits selected from the following geography courses:
GEOG 102 Human Geography ..................................... 3
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 256 Conservation: Global Issues ......................... 3
Three credits selected from the following methods courses:
GEOG 250 Computer Methods in Geography .................. 4
GEOG 270 Map Communication and Design .................... 3
GEOG 272 Map and Air Photo Interpretation ................. 3
Nine credits selected from geography courses ................. 9
at the 300 or 400 level (GEOG 445 strongly recommended).
Six credits selected from geography courses ................. 6
at the 200, 300, or 400 level.

ELECTIVES
Electives
After required 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*

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ......................... 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS
Skill Requirements
Writing 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 0-12
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
(designated for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus ........................................... 3
(designated for students who intend to continue the study of mathematics)
One of the following:
MATH 221 Calculus I ............................................. 4
MATH 241 Analytic Geometry and Calculus A ................. 4
Successful performance on the college proficiency exam.

Breadth Requirements (See page 80)

Group A ............................................................... 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B ............................................................... 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C ............................................................... 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D ............................................................... 13
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
Six credits selected from the following natural geography courses:
GEOG 101 Physical Geography .................................... 3
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 250 Computer Methods in Geography .................. 4
GEOG 255 Applied Climatology .................................. 3
Six credits selected from the following geography courses:
GEOG 102 Human Geography ..................................... 3
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 256 Conservation: Global Issues ......................... 3
Three credits selected from the following methods courses:
GEOG 250 Computer Methods in Geography .................. 4
GEOG 270 Map Communication and Design .................... 3
GEOG 272 Map and Air Photo Interpretation ................. 3

* Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
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.
Nine credits selected from geography courses at the 300 or 400 level (GEOG 445 strongly recommended).  
Six credits selected from geography courses at the 200, 300, or 400 level.

**Within the College**

Twenty-four credits in the following social sciences with at least three credits in each department:
- Anthropology course  3
- Economics course  3
- History course  3
- Political Science course  3
- Sociology course  3
- PSYC 201 General Psychology  3

Six additional credits selected from the departments listed above.  6

**Professional Studies**

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

**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.

**ELECTIVES 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, 227
- **GROUP C**: GEOG 102, 120, 210, 230, 235, 320
- **GROUP D**: GEOG 101, 152, 206, 220, 250

A detailed brochure describing the geography program and requirements is available upon request from the department office.

**BACHELOR OF ENVIRONMENTAL SCIENCE**

Complementing the B.A. programs in Geography, the Geography Department, in cooperation with the Geology Department and the School of Life and Health Sciences, offers a B.S. degree in Environmental Science. The program emphasizes a broad scientific understanding of the character, function and analysis of environmental systems. It is hoped that Environmental Science B.S. students will be able to contribute to society’s understanding of and solutions to problems that arise from the human occupancy and use of the environment. 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
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

**COLLEGE REQUIREMENTS**

**Skill Requirements**

Writing  3

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
Foreign Language: 6-12 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.

Breadth Requirements? (See page 80)

Nine credits are required in each of the following groups: 

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

GEOG 213 Elementary Organic Chemistry 3-4
GEOG 320 Water and Society 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, one course must be GEOG 402 and another course must be a 400-level geography course.

Biological Environment

GEOG 253 Introduction to Environmental Engineering 3-4
GEOG 261 Environmental Chemistry 3-4
GEOG 260 Environmental Science 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 

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. The study of the earth is challenging and varied, and includes specialties as different as paleontology and geophysics. For example, geologists at the University of Delaware are studying some unusual topics, such as the coastline changes of Greece since Bronze Age times and the possible association between large impacts and other earth events, as well as more typical geological topics, such as the chemistry, structural geology, and development of the ancient rocks.
of northern Delaware, and the history of sea-level change over the last few hundred thousand years.

Geology is vital to the discovery and recovery of earth resources including metals, building materials, and petroleum and other fuels. Geologists also deal with land use, environmental planning, earthquake prediction, and the understanding of hazards such as landslides, floods, and other natural disasters.

Students can enjoy close association with faculty engaged in active field and laboratory research. Advanced undergraduate students are encouraged to undertake research under the supervision of the faculty. The laboratory-classroom building is accessible to all students in research-oriented upper class courses and is equipped for research in mineralogy-petrology, micropaleontology, geochemistry, paleontology, stratigraphy, sedimentary petrology, geophysics, paleomagnetics, and structural geology.

The Department has close ties with the Delaware Geological Survey and with the College of Marine Studies.

The Department of Geology offers Bachelor of Arts degrees in geology, in geology with a concentration in paleobiology, and in earth science education. In addition, the Department offers Bachelor of Science degrees in geology and in geophysics (jointly with the Physics Department), and a minor in geology.

DEGREE: BACHELOR OF ARTS
MAJOR: GEOLOGY

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ........................................ 3-4
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet

Foreign Language: ........................................ 0-12-12
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
(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)

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 80)

Group A: ........................................ 12-14
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B: ........................................ 12-14
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C: ........................................ 12-14
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D: ........................................ 13-14
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

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

Three credits of field geology (taught only in the summer):
GEOL 450  Recent Sedimentary Environment .................................. 3-4
GEOL 460  Field Geology in the Western States ............................... 3-4

Within the College

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

ELECTIVES

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

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

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DEGREE: BACHELOR OF ARTS
MAJOR: GEOLOGY
CONCENTRATION: PALEOBIOLOGY

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

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

---

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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.
COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3, 4
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 0-12
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
(designated for students who do not intend to continue the study of mathematics)

MATH 115 Pre-Calculus 3
(designated for students who intend to continue the study of mathematics)

One of the following:

MATH 221 Calculus I 3

MATH 241 Analytic Geometry and Calculus A 4

Successful performance on the college proficiency exam.

Breadth Requirements (See page 80)

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

12

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

12

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

12

Group D
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.

13

MAJOR REQUIREMENTS

Within the Department

GEOL 107 General Geology I 4

GEOL 203 Mineralogy and Crystallography 3

GEOL 204 Properties of Rocks and Minerals 4

GEOL 301 Systematic and Evolutionary Paleontology 3

GEOL 303 Sedimentology 3

GEOL 304 Stratigraphy 3

GEOL 305 Structural Geology 3

GEOL 402 History of the Earth 4

GEOL 466 Independent Study 4

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

GEOL 432 Recent Sedimentary Environment 3

GEOL 460 Field Geology in the Western States 3

Within the College

BISC 207 Introductory Biology I 4

BISC 208 Introductory Biology II 4

BISC 302 General Ecology 3

BISC 324 Invertebrate Zoology 4

BISC 442 Vertebrate Morphology (recommended) 3

BISC 495 Evolution 3

STAT 201 Introduction to Statistics I 3

STAT 202 Introduction to Statistics II 3

CHEM 103 General Chemistry 2

CHEM 104 General Chemistry 2

MATH 115 Pre-calculus 3

ELECTIVES

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

CREDITS TO TOTAL A MINIMUM OF 124

DEGREE: BACHELOR OF SCIENCE

MAJOR: GEOLOGY

CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing 3

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

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COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3, 4
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 0-12
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.

Breadth Requirements (See page 80)

Thirty credits are required with a minimum of six credits in each of the following groups:

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

Group B
The study of culture and institutions over time.

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

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

12

12

12

13

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.

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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.
GEOL 303  Sedimentology ........................................ 3
GEOL 304  Stratigraphy ........................................... 3
GEOL 305  Structural Geology .................................... 3
GEOL 402  History of the Earth .................................. 3
GEOL 407  Igneous and Metamorphic Petrology ................. 3
GEOL 452  Plate Tectonics and Geophysics ..................... 3
Six credits from the following:
GEOL 460  Field Geology in the Western States ............... 3
or
GEOL 482  Recent Sedimentary Environments .................. 3
Geology courses (400 level) ..................................... 3

Within the College

Related Work
MATH 241  Analytic Geometry and Calculus A ................ 4
MATH 242  Analytic Geometry and Calculus B ................ 4
CHLM 103  General Chemistry .................................. 4
CHEM 104  General Chemistry ................................... 4
PHYS 201  General Physics ...................................... 4
PHYS 202  General Physics ...................................... 4
Eight credits from the departments: 8
BISC 207, BISC 208, and STAT 205 are strongly encouraged.
Physics, Chemistry, Biology, Mathematical Science, Statistics,
Computer Science, Engineering (see department chair for a
list of approved courses).

Electives

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

Credits to Total a Minimum of ................................ 125

Requirements for the Minor in Geology

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

GEOL 107 (4 credits); at least two of the following:
GEOL 203, 204, 301, 303, 304, 305, GEOL 402 (History of
the Earth); any 400-level course or courses may be used to
obtain the remaining credits needed to reach a total of 18.

Degree: Bachelor of Arts
Major: Earth Science Education

Curriculum

University Requirements

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

College Requirements

Skill Requirements

Writing: ........................................................................ 3
A writing course involving significant writing experience
including two papers with a combined minimum of 5,000
words to be submitted for extended faculty critique of both
composition and content. This course must be taken in a stu-
dent's junior or senior year. Appropriate writing courses are
normally designated in the semester's Registration Booklet.

Foreign Language ..................................................... 0-12
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 require-
ment in that language by taking an exemption examination.

Mathematics:

MATH 114  Elementary Mathematics and Statistics .......... 3
(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 ............... 3
or
Successful performance on the college proficiency exam.

Breadth Requirements (See page 80)

Group A .......................................................... 12
Understanding and appreciation of the creative arts and
humanities. Twelve credits representing at least two areas

Group B .......................................................... 12
The study of culture and institutions over time. Twelve credits
representing at least two areas.

Group C .......................................................... 12
Empirically based study of human beings and their environ-
ment. Twelve credits representing at least two areas.

Group D .......................................................... 13
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 associat-
ed laboratory. (This requirement is satisfied by the completion
of the interdisciplinary major courses.)

Major Requirements

Within the College

GEOL 105  General Geology ..................................... 4
or
GEOL 107  General Geology ..................................... 4
GEOL 106  General Geology ..................................... 4
GEOL 101  Physical Geology .................................... 3
GEOL 203  Mineralogy and Crystallography ................. 3
GEOL 220  Meteorology .......................................... 3
GEOL 235  Conservation of Natural Resources ............. 3
GEOL 303  Sedimentology .................................... 3
GEOL 343  Climatic Geomorphology ......................... 3
or
GEOL 255  Applied Climatology ................................ 3

PHYS 133  Introduction to Astronomy .......................... 4
PHYS 201  General Physics .................................... 4
PHYS 202  General Physics .................................... 4
CHEM 108  General Chemistry ................................. 4
BISC 195  Biological Evolution .................................. 3
MATH 221  Calculus I ............................................ 3
Three credits from the following:
GEOL 432  Recent Sedimentary Environments ............. 3
GEOL 460  Field Geology in the Western States ............ 3

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26

†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.
External to the College

MAST 200 Introduction to Marine Studies .................................................. 3

Professional Studies

EDST 201 Education and Society ................................................................. 3
EDST 304 Educational Psychology – Social Aspects .................................... 3
EDST 305 Educational Psychology – Cognitive Aspects ............................. 3
SCEN 491 Science Materials and Approaches ............................................. 4
EDST 420 Reading in the Content Area ..................................................... 1
EDDV 400 Student Teaching ......................................................................... 9

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

In view of the close relationship between geology and other disciplines, interdepartmental and double majors are encouraged. In addition, various interdisciplinary programs within the field of geology are also possible. These programs require careful planning and should be done in conjunction with the student’s adviser and the department chair. Examples of such programs include paleobiology, geochemistry, geophysics (see below). Students interested in any of these programs should contact the Geology Department for information about specific course recommendations. Majors in Environmental Science (ENSC) can concentrate in Geology by earning a Minor in Geology while earning a B.S. in ENSC.

In recognition of the close relationship of geology to many academic disciplines and the many applications of geology to problems of the environment and the recovery of the earth’s resources, the Department of Geology offers courses in varied aspects of geology for nonmajors. These include the basic courses, GEOL 105 and 106 as well as specialty courses such as GEOL 233, 234, 235, 243, and 245. These courses fulfill the GROUP D requirements for the College of Arts and Science.

BACHELOR OF SCIENCE DEGREE IN GEOPHYSICS

In addition to the B.A. and B.S. degrees in geology, the Geology Department, in cooperation with the Physics Department, offers a B.S. degree in geophysics. Recognizing the specialization of geophysics as a discipline on its own, and because of the need to better coordinate the completion of many courses in two disciplines, a separate degree program with a special curriculum has been formed. The requirements for the geophysics degree and the special curriculum are:

DEGREE: BACHELOR OF SCIENCE

MAJOR: GEOPHYSICS

CREDITS*

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing ...................................... 3
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Broadth Requirements† (See page 80)
A total of eighteen credits from Groups A, B and C is required with six credits in each group. The six credits from each group could be from the same area.

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

Group B
The study of culture and institutions over time.

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

MAJOR REQUIREMENTS

Within the Department

GEOL 107 General Geology I ................................................................. 4
GEOL 203 Mineralogy and Crystallography ............................................. 4
GEOL 204 Properties of Rocks and Minerals ......................................... 4
GEOL 303 Sedimentology ........................................................................ 3
GEOL 402 Structural Geology ................................................................. 3
GEOL 403 Geophysical Field Methods ................................................... 3
GEOL 452 Plate Tectonics and Geophysics ............................................. 3
GEOL 453 Elementary Geophysics I ....................................................... 3
GEOL 454 Elementary Geophysics II ....................................................... 3
GEOL 460 Field Geology in the Western States ....................................... 3

One of the following three courses:

GEOL 451 Geophysical Field Methods ................................................... 3
GEOL 454 Elementary Geophysics II ....................................................... 3
GEOL 460 Field Geology in the Western States ....................................... 3

Within the College

PHYS 107 General Physics ........................................................................ 4
PHYS 108 General Physics ........................................................................ 4
PHYS 209 General Physics ........................................................................ 3
PHYS 645 Electronics for Scientists ....................................................... 3
PHYS 646 Instrumentation for Scientists ................................................ 3

One of the following four courses:

PHYS 513 Physical Optics .......................................................................... 4
PHYS 603 Electricity and Magnetism ........................................................ 3

(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
MATH 241 Analytic Geometry and Calculus A ........................................ 4
MATH 242 Analytic Geometry and Calculus B ........................................ 4
MATH 245 Analytic Geometry and Calculus C ........................................ 4
MATH 302 Ordinary Differential Equations I .......................................... 3
CHEM 105 General Chemistry ................................................................. 4

External to the College

MEEG 213 Principles of Mechanics I ....................................................... 3

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.
† This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
‡ 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

There is a history in all our lives. Those having little sense of their personal past can rarely appreciate what they are, let alone develop a vision of their future. The same holds true for our community and nation, and for the whole of humanity. Only our ignorance of history can condemn us to repeating our mistakes. To thrive in the present, and to advance to a sensible future, we must first seek out the meaning of our past.

Those who know history as merely names and dates do not know history. In its focus on people and their experiences, the practice of history is a literary art. In its attempt to make sense of this experience, it is often as analytical as any discipline in the social sciences. Indeed, many social sciences are rooted in or influenced by history.

Combining literary art and critical analysis, the study of history enables 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. History majors are able to build outstanding careers in government, business, publishing and journalism, just as they are well prepared for graduate work in law, business, public administration, and teaching. Above all, these skills are essential for an educated person to function in today's world.

Delaware has long been known for its excellence in the fields of U.S. and European history; social, cultural, and intellectual history; the history of science and technology; and the history of American civilization. Course offerings in African, East Asian, Latin American, and history of women are outstanding.

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. Finally, together with the Department of English, the History Department administers a History/Journalism major.

The above programs are made possible by a faculty of high caliber. All professors of the department are dedicated to undergraduate teaching and research.

DEGREE: BACHELOR OF ARTS

MAJOR: HISTORY

CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: .......................................................... 3
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: ............................................. 0-12
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
(designated for students who do not intend to continue the study of mathematics)

MATH 115 Pre-Calculus ........................................ 3
(designated 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
Successful performance on the college proficiency exam.

Breadth Requirements† (See page 80)

Group A ........................................................................... 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas

Group B ........................................................................... 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C ........................................................................... 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D ........................................................................... 13
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

HIST 101 Western Civilization to 1648 .................................. 3
HIST 102 Western Civilization: 1648 to the Present .................. 3
HIST 268 Seminar ............................................... 3
History course on the history of Asia, Africa, Latin America, or the Ancient World ........... 3

*Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
†This requirement may be fulfilled through a course taken to complete major, breadth, or elective requirements. See page 26.
‡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 courses at or above the 300 level ........................................... 12\(^\text{1-4}\)
History seminar at the 400 level or above ............................................... 3\(^\text{1-4}\)
(excluding HIST 491 and 493 and Independent Study)
History course ......................................................................................... 3\(^\text{1-4}\)

ELECTIVES

Electives

After required 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*

UNIVERSITY REQUIREMENTS
ENGL 110  Critical Reading and Writing ................................................. 3\(^\text{1}\)
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 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\(^\text{1}\)
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115  Pre-Calculus .................................................................. 3\(^\text{1}\)
(designed for students who intend to continue the study of mathematics)
or
One of the following:
MATH 221  Calculus I ......................................................................... 3
or
MATH 241  Analytic Geometry and Calculus A .................................. 4
or
Successful performance on the college proficiency exam.

Breadth Requirements? (See page 80)

Group A ................................................................................................. 12\(^\text{1-4}\)
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B ................................................................................................. 12\(^\text{1-4}\)
The study of culture and institutions over time. Twelve credits representing at least two areas.

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Group C ................................................................................................ 12\(^\text{1-4}\)
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D ................................................................................................ 13\(^\text{1-4}\)
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
HIST 101  Western Civilization to 1648 .................................................... 3\(^\text{1}\)
HIST 102  Western Civilization: 1648 to the Present ............................... 3\(^\text{1}\)
HIST 268  Seminar .............................................................................. 3\(^\text{1}\)
History course on the history of Asia, Africa, Latin America, or the Ancient World .................................................. 3\(^\text{1}\)
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\(^\text{1}\)
History seminar at the 400 level or above ............................................... 3\(^\text{1}\)
(excluding HIST 491 and 493 and Independent Study)

ELECTIVES

Electives

After required 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*

UNIVERSITY REQUIREMENTS
ENGL 110  Critical Reading and Writing ................................................. 3\(^\text{1}\)
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 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\(^\text{1}\)
(designed for students who do not intend to continue the study of mathematics)
or
MATH 115  Pre-Calculus .................................................................. 3\(^\text{1}\)
(designed for students who intend to continue the study of mathematics)
or
One of the following:
MATH 221  Calculus I ......................................................................... 3
or
MATH 241  Analytic Geometry and Calculus A .................................. 4
or
Successful performance on the college proficiency exam.

Breadth Requirements? (See page 80)

Group A ................................................................................................. 12\(^\text{1-4}\)
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B ................................................................................................. 12\(^\text{1-4}\)
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

# This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

† 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.

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**HISTORY • COLLEGE OF ARTS AND SCIENCE**

**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

Successful performance on the college proficiency exam.

**Breadth Requirements**† (See page 80)

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

Group **B.**
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group **D.**
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**

**HIST 101**  Western Civilization to 1648 .......................... 3
**HIST 102**  Western Civilization: 1648 to the Present ............ 3
**HIST 208**  Seminar ........................................... 3

History course on the history of Asia, Africa, Latin America, or the Ancient World.

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.

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

**ELECTIVES**

Electives

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

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

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**DEGREE: BACHELOR OF ARTS**

**MAJOR: HISTORY**

**CONCENTRATION: GLOBAL HISTORY**

**CREDITS**

**UNIVERSITY REQUIREMENTS**

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

**COLLEGE REQUIREMENTS**

**Skill Requirements**

Writing: .................................................................. 3
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**Foreign Language:** ........................................... 0-12
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
(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

Successful performance on the college proficiency exam.

**Breadth Requirements**† (See page 80)

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

**Group B.**
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

**Group D.**
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**

**HIST 101**  Western Civilization to 1648 .......................... 3
**HIST 102**  Western Civilization: 1648 to the Present ............ 3
**HIST 208**  Seminar ........................................... 3

History course on the history of Asia, Africa, Latin America, or the Ancient World.

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.

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

**ELECTIVES**

Electives

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

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

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*Superior figures indicate year or years in which the course is normally taken, i.e., 5 freshman year, 5 sophomore year, etc.

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

‡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.

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

CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

COLLEGE REQUIREMENTS
Skill Requirements
Writing 3
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language 0-12
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
(designated for students who do not intend to continue the study of mathematics)

or
MATH 115 Pre-Calculus 3
(designated 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 80)

Group A 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B 12
The study of culture and institutions over time. Twelve credits representing at least two areas

Group C 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D 13
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
HIST 101 Western Civilization to 1648 3
HIST 102 Western Civilization: 1648 to the Present 3
HIST 268 Seminar 3
History course on the history of Asia, Africa, Latin America, or the Ancient World 3

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

ELECTIVES
Electives
After required 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

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

COLLEGE REQUIREMENTS
Skill Requirements
Writing 3
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language 0-12
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
(designated for students who do not intend to continue the study of mathematics)

or
MATH 115 Pre-Calculus 3
(designated 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 80)

Group A 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D 13
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.

\*Superior figures indicate year or years in which the course is normally taken, i.e., 1st fresh year, 2nd year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26
†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.
**MAJOR REQUIREMENTS**

**Within the Department**

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

**Within the College**

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

**Professional Studies**

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

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

**DEGREE: BACHELOR OF ARTS**

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

**CURRICULUM**

**UNIVERSITY REQUIREMENTS**

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

**COLLEGE REQUIREMENTS**

**Skill Requirements**

**Writing** ........................................................................................................ 3

A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**Foreign Language** ......................................................................................... 0

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
  (designed for students who do not intend to continue the study of mathematics)
- **MATH 115 Pre-Calculus** ............................................................................ 3
  (designed for students who intend to continue the study of mathematics)
- **One of the following:**
  - **MATH 221 Calculus I** ........................................................................... 3
  - **MATH 241 Analytic Geometry and Calculus A** .................................... 4
- **Successful performance on the college proficiency exam** ...........................

**Breadth Requirements**

- **Group A** .................................................................................................. 12
- **Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.**
- **Group B** .................................................................................................. 12
- **The study of culture and institutions over time. Twelve credits representing at least two areas.**
- **Group C** .................................................................................................. 12
- **Empirically based study of human beings and their environment. Twelve credits representing at least two areas.**
- **Group D** .................................................................................................. 13
- **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 of History**

- **HIST 101 Western Civilization to 1648** .................................................. 3
- **HIST 102 Western Civilization: 1648 to the Present** ................................ 3
- **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
- History seminar at the 400 level or above 15

**French**

Civilization: FREN 310 (French Civilization), or FREN 511 (French Civilization) or FREN 312 (Contemporary France) ................. 3

Literature: FREN 301 (Introduction to French Literature: Prose) and FREN 302 (Introduction to French Literature: Poetry and Theatre) ....... 6

400-level literature course ........................................................................ 4

Two courses at the 200, 300, or 400 level ................................................ 4
German
Civilization: GRMN 329 (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 1-4
Literature: RUSS 310 (Introduction to Russian Literature I)
and RUSS 312 (Introduction to Russian Literature II) ............... 6 1-4
400-level literature course ........................................... 3 1-4
Two courses at the 200, 300, or 400 level ................................ 6 1-4
Spanish
Civilization: SPAN 211 (Spanish Civilization and Culture) or
SPAN 212 (Latin American Civilization and Culture) .................. 3 1-4
Literature: SPAN 301 (Survey of Spanish Literature) and
SPAN 302 (Survey of Spanish Literature) ............................ 6 1-4
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
Electives
After required 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*

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 1-4
A 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
compositions and content. This course must be taken in a stu-
dent’s junior or senior year. Appropriate writing courses are
normally designated in the semester’s Registration Booklet.

Foreign Language: .................................................. 0-12 1-2
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 require-
ment 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
or
MATH 241 Analytic Geometry and Calculus A ......................... 4

Successful performance on the college proficiency exam.

Breadth Requirements (See page 80)

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 environ-
ment. 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 associat-
ed laboratory.

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 1-4
History courses at or above the 300 level ................................ 12 1-4
History seminar at the 400 level or above ................................ 3 1-4
(excluding HIST 491 and 493 and Independent Study)
History course ..................................................... 3 1-4

Within the College
ENGL 307 New Writing and Editing .................................. 3 1-4
Nine credits chosen from the following courses: ...................... 9 1-4
ENGL 308 Reporters’ 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/Internship ............................... 1-6

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

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

The department encourages interdepartmental or
double majors that enable a student to develop compet-
ence in two areas, such as history and art history, or his-
tory and literature. An adviser in the History Department
can provide details.

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

# This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26

†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.

** Students must choose either the Peninsular (211, 301, 302) or the Latin American (212, 303, 304) track.
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, history and political science majors. 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
Although the Department of Linguistics offers only a minor 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. Introduction to Linguistics (LING 101), Studies Language (LING 265), and Introduction to the English Language (LING 390) can be used to fulfill Group C of the General Education Requirement in the College of Arts and Science, and Dictionaries (LING 301) can be used to fulfill Group A.

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.

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.

Students Register for LING 426: Theory and Techniques of Interpretation (3). 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.

MATHEMATICAL SCIENCES
No other scientific field has such wide applicability in human affairs as the mathematical sciences. The mathematical sciences are more than a complex set of tools. Mathematics is an intellectual discipline, a structured way of thinking, a universal language. A humanist should endeavor to appreciate the cultural essence of mathematics just as a scientist should be able to enjoy literature and music. Statistics is frequently used in the planning and execution of problem-solving procedures. The science of statistics provides a rational basis for condensing observed data, drawing inferences from incomplete information, and making decisions in the face of uncertainty.

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, which provides concentrations in physical mathematics, in mathematics of computation, or in mathematics of management sciences and operations research; the Bachelor of Science in Statistics, which provides a concentration in statistics with a related area of application; the Bachelor of Arts in Mathematical Sciences, which
gives students more choices of upper level major courses along with an area of application; 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 302/303 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.

DEGREE: BACHELOR OF ARTS
MAJOR: MATHEMATICAL SCIENCES

CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ..................... 3
Three credits in an approved course or courses stressing 3 14
multicultural, ethnic, and/or gender-related content. #

COLLEGE REQUIREMENTS
Skill Requirements
Writing: .................................................................. 3 14
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language .................................................. 0-12 12
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 examination.

Breadth Requirements† (See page 80)

Group A .................................................................. 12 14
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B .................................................................. 12 14
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C .................................................................. 12 14
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D .................................................................. 13 14
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 349 Elements of Linear Systems ....................... 3 1
MATH 302 Ordinary Differential Equations ................ 3 1
MATH 309 Differential Equations Computing Lab ......... 1 1
MATH 508 Advanced Calculus for Applications .......... 3 14

Within the College
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 1 4
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.

ELECTIVES
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
CONCENTRATION: MATHEMATICS OF COMPUTATION

CURRICULUM

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

* Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
† This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†‡ 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.
COLLEGE REQUIREMENTS

Skill Requirements

Writing: A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 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 80) 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
MATH 349 Elements of Linear Systems ........................................ 3
MATH 302 Ordinary Differential Equations ................................... 3 2
MATH 303 Differential Equations Computing Lab ............................ 1 2
MATH 315 Discrete Mathematics II ............................................. 3 2
MATH 389 Graph Theory ........................................................... 3 3
MATH 426 Introduction to Numerical Analysis and Algorithmic Computation .............................................. 3 4
MATH 450 Abstract Algebra ....................................................... 3 4
MATH 503 Advanced Calculus for Applications ............................. 3 4
and MATH 600 Advanced Calculus – Introduction to Analysis I ........ 3
or MATH 602 Advanced Calculus – Introduction to Analysis II ........ 3
and MATH 508 Introduction to Complex Variables and Application .................. 3 3,4
MATH 529 Linear Programming: Methods and Applications ............. 3 3,4
STAT 370 Introduction to Statistical Analysis I ............................. 3
and STAT 371 Introduction to Statistical Analysis II ....................... 3

Within the College

Related Work
CISC 180 Introduction to Computer Science I ............................. 3 1,2
and CISC 181 Introduction to Computer Science II ........................ 3
CISC 220 Data Structures .......................................................... 3 3,4
CISC 411 Algorithmic and Numerical Solution of Differential Equations .............................................. 3 3,4
CISC 627 Simulation of Discrete Systems ..................................... 3 3,4

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

ELECTIVES

Electives

After required 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: MATHEMATICAL SCIENCES

CONCENTRATION: MATHEMATICS OF MANAGEMENT SCIENCES AND OPERATION RESEARCH

CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 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 80) 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 ........................................... 5 1
MATH 242 Analytic Geometry and Calculus B** ............................ 4 1
MATH 243 Analytic Geometry and Calculus C ................................ 4 2
MATH 260 Concepts of Analysis ................................................. 5 2
MATH 349 Elements of Linear Systems ........................................ 3
MATH 302 Ordinary Differential Equations ................................... 3 2
MATH 303 Differential Equations Computing Lab ............................ 1 2
MATH 315 Discrete Mathematics II ............................................. 3 2
MATH 389 Graph Theory ........................................................... 3 3
MATH 426 Introduction to Numerical Analysis and Algorithmic Computation .............................................. 3 4
MATH 450 Abstract Algebra ....................................................... 3 4
MATH 503 Advanced Calculus for Applications ............................. 3 4
and MATH 600 Advanced Calculus – Introduction to Analysis I ........ 3
or MATH 602 Advanced Calculus – Introduction to Analysis II ........ 3
and MATH 508 Introduction to Complex Variables and Application .................. 3 3,4
MATH 529 Linear Programming: Methods and Applications ............. 3 3,4
STAT 370 Introduction to Statistical Analysis I ............................. 3
and STAT 371 Introduction to Statistical Analysis II ....................... 3

Related Work
CISC 180 Introduction to Computer Science I ............................. 3 1,2
and CISC 181 Introduction to Computer Science II ........................ 3
CISC 220 Data Structures .......................................................... 3 3,4
CISC 411 Algorithmic and Numerical Solution of Differential Equations .............................................. 3 3,4
CISC 627 Simulation of Discrete Systems ..................................... 3 3,4

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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.
MATH 303 Differential Equations Computing Lab ........................................ 1.2
MATH 389 Graph Theory ........................................................................... 3.2.3
MATH 426 Introduction to Numerical Analysis and Algorithmic Computation
MATH 450 Abstract Algebra ...................................................................... 3.4.4.4
MATH 508 Introduction to Complex Variables and Application .............. 3.4.4.4
MATH 529 Linear Programming: Methods and Applications .......... 3.4.4.4
MATH 600 Fundamentals of Real Analysis .............................................. 3.4.4
MATH 602 Advanced Calculus – Introduction to Analysis II ................. 3.4.4
MATH 672 Vector Spaces ........................................................................ 3.4.4
STAT 370 Introduction to Statistical Analysis I ...................................... 3.5
STAT 371 Introduction to Statistical Analysis II ...................................... 3.5
Nine credits from the following: .......................................................... 9.4
MATH 428 Algorithmic and Numerical Solution to Differential Equations
MATH 518 Mathematical Models and Applications .................................. 3
MATH 630 Introduction to Probability Theory ........................................ 3
MATH 631 Introduction to Stochastic Processes ...................................... 3
MATH 632 Topics in Applied Probability ................................................ 3
MATH 688 Combinatorics and Graph Theory with Application I ........ 3
MATH 689 Combinatorics and Graph Theory with Applications II .... 3
MATH 694 Methods of Optimization ...................................................... 3

Within the College

Related Work

PHYS 207 General Physics ...................................................................... 4.1.2
PHYS 208 General Physics ...................................................................... 4.1.2
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 .................................. 3.4.4

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: Mathematical Sciences
Concentration: Physical Mathematics

Curriculum

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.

College Requirements

Skill Requirements

Writing:
A 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

Credits to Total a Minimum of ......................................................... 128

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 Elements of Linear Systems .............................................. 3.2
MATH 392 Ordinary Differential Equations ........................................ 3.2
MATH 303 Differential Equations Computing Lab .............................. 1.2
MATH 426 Introduction to Numerical Analysis and Algorithmic Computation
MATH 450 Abstract Algebra .................................................................. 3.4.4.4
MATH 601 Advanced Calculus – Introduction to Analysis I ................. 3.4.4
MATH 602 Advanced Calculus – Introduction to Analysis II ............... 3.4.4
MATH 508 Introduction to Complex Variables and Application ........ 3.4.4
MATH 672 Vector Spaces ....................................................................... 3.4.4
MATH 699 Intermediate Ordinary Differential Equations .................. 3.4.4
or
MATH 610 Introduction to Partial Differential Equations with Applications
or
MATH 616 Introduction to Applied Mathematics I .............................. 3
and
MATH 617 Introduction to Applied Mathematics II ............................ 3
STAT 370 Introduction to Statistical Analysis I .................................... 3.5
STAT 371 Introduction to Statistical Analysis II ................................... 3.5

Related Work

PHYS 207 General Physics .................................................................... 4.1.2
PHYS 208 General Physics .................................................................... 4.1.2
PHYS 209 General Physics .................................................................... 3.2.3
PHYS 419 Analytical Mechanics .......................................................... 3.4.4
PHYS 620 Analytical Mechanics ........................................................... 3.4.4
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 ................................ 3.4.4

*Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
+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.
ELECTIVES

Electives
After required 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
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3,4
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: 0-12
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 in French, Russian or German. Required with a minimum of six credits in each group, the six credits from each group could be from the same area.

Breadth Requirements (See page 89)
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
MATH 249 Analytic Geometry and Calculus B** 4
MATH 249 Analytic Geometry and Calculus C 4
MATH 260 Concepts of Analysis 3
MATH 349 Elements of Linear Systems 3
MATH 302 Ordinary Differential Equations 3
MATH 303 Differential Equations Computing Lab 1
MATH 426 Introduction to Numerical Analysis and Algorithmic Computation 3
MATH 503 Advanced Calculus - Applications 3

or

MATH 600 Advanced Calculus – Introduction to Analysis I 3
MATH 602 Advanced Calculus – Introduction to Analysis II 3
STAT 205 Statistical Methods 4
STAT 370 Introduction to Statistical Analysis 3
STAT 371 Introduction to Statistical Analysis II 3
STAT 418 Sampling Methods 3
STAT 420 Data Analysis and Nonparametric Statistics 3
STAT 611 Regression Analysis 3
STAT 615 Design and Analysis of Experiments 3

Three credits from the following:
STAT 616 Design and Analysis of Experiments II 3
STAT 617 Multivariate Methods 3
STAT 618 Sampling Techniques 3

Within the College

Related Work
CISC 105 General Computer Science 3
CISC 106 General Computer Science for Engineers 3
CISC 180 Introduction to Computer Science I 3
ENGL 312 Written Communications in Business 3

Area of application: 15
Two-semester sequence of laboratory science

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

ELECTIVES

Electives
After required 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
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3,4
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: 0-12
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 in French, Russian or German. Required with a minimum of six credits in each group, the six credits from each group could be from the same area.

Breadth Requirements (See page 89)
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
MATH 249 Analytic Geometry and Calculus B** 4
MATH 249 Analytic Geometry and Calculus C 4
MATH 260 Concepts of Analysis 3
MATH 349 Elements of Linear Systems 3
MATH 302 Ordinary Differential Equations 3
MATH 303 Differential Equations Computing Lab 1
MATH 426 Introduction to Numerical Analysis and Algorithmic Computation 3
MATH 503 Advanced Calculus - Applications 3

or

MATH 600 Advanced Calculus – Introduction to Analysis I 3
MATH 602 Advanced Calculus – Introduction to Analysis II 3
STAT 205 Statistical Methods 4
STAT 370 Introduction to Statistical Analysis 3
STAT 371 Introduction to Statistical Analysis II 3
STAT 418 Sampling Methods 3
STAT 420 Data Analysis and Nonparametric Statistics 3
STAT 611 Regression Analysis 3
STAT 615 Design and Analysis of Experiments 3

Three credits from the following:
STAT 616 Design and Analysis of Experiments II 3
STAT 617 Multivariate Methods 3
STAT 618 Sampling Techniques 3

Within the College

Related Work
CISC 105 General Computer Science 3
CISC 106 General Computer Science for Engineers 3
CISC 180 Introduction to Computer Science I 3
ENGL 312 Written Communications in Business 3

Area of application: 15
Two-semester sequence of laboratory science

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

ELECTIVES

Electives
After required 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

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 25.

†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.
school foreign language or the equivalent, satisfactory performance on a proficiency test in that language. French, Russian or German is recommended.

**Broadth Requirements**† (See page 80)

**Group A**

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

**Group B**

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

**Group C**

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

**Group D**

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

**MAJOR REQUIREMENTS;**

Within the Department

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210</td>
<td>Discrete Mathematics I</td>
<td>1-4</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Analytic Geometry and Calculus B**</td>
<td>4</td>
</tr>
<tr>
<td>MATH 243</td>
<td>Analytic Geometry and Calculus C</td>
<td>4</td>
</tr>
<tr>
<td>MATH 260</td>
<td>Concepts of Analysis</td>
<td>3, 4</td>
</tr>
<tr>
<td>MATH 302</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 305</td>
<td>Differential Equations Computing Lab</td>
<td>1, 2</td>
</tr>
<tr>
<td>MATH 349</td>
<td>Elements of Linear Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 450</td>
<td>Abstract Algebra</td>
<td>3, 4</td>
</tr>
<tr>
<td>MATH 518</td>
<td>Mathematical Models and Applications</td>
<td>3, 4</td>
</tr>
<tr>
<td>MATH 540</td>
<td>Fundamentals of Geometry</td>
<td>3</td>
</tr>
<tr>
<td>STAT 370</td>
<td>Introduction to Statistical Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 371</td>
<td>Introduction to Statistical Analysis II</td>
<td>3</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MATH 503</td>
<td>Advanced Calculus for Applications</td>
<td>3-4</td>
</tr>
<tr>
<td>MATH 508</td>
<td>Introduction to Complex Variables and Application</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Within the College

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISC 105</td>
<td>General Computer Science</td>
<td>3, 4</td>
</tr>
<tr>
<td>CISC 106</td>
<td>General Computer Science for Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CISC 180</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 207</td>
<td>General Physics</td>
<td>4, 2</td>
</tr>
<tr>
<td>ENGL 312</td>
<td>Written Communications in Business</td>
<td>3, 4</td>
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</table>

**Professional Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDST 201</td>
<td>Education and Society</td>
<td>3-4</td>
</tr>
<tr>
<td>EDST 304</td>
<td>Educational Psychology – Social Aspects</td>
<td>3-4</td>
</tr>
<tr>
<td>EDST 305</td>
<td>Educational Psychology – Cognitive Aspects</td>
<td>3-4</td>
</tr>
<tr>
<td>MATH 579</td>
<td>Problem Solving Strategies</td>
<td>1</td>
</tr>
<tr>
<td>MATH 580</td>
<td>Approaches to Teaching Mathematics</td>
<td>3, 4</td>
</tr>
<tr>
<td>MATH 581</td>
<td>Practicum in Secondary Mathematics</td>
<td>1, 2</td>
</tr>
<tr>
<td>EDST 420</td>
<td>Reading in the Content Areas</td>
<td>1, 4</td>
</tr>
<tr>
<td>EDVD 400</td>
<td>Student Teaching</td>
<td>9</td>
</tr>
</tbody>
</table>

**ELECTIVES**

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree, 75 outside of Mathematical Sciences.

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

†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.**
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.

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 the 100 and 200 level are electives open only to freshmen and sophomores. A military obligation is incurred only if the student contracts for a commission during the last two years 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 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. Obligations: Up to four years of active duty (full-time employment), or eight years of part-time employment (one weekend per month and an annual two-week encampment) in the National Guard or Reserve Components, upon receipt of a commission.

Army ROTC Scholarship. Three- and four-year scholarships are awarded on the basis of academic merit and leadership potential. Scholarships pay tuition, an allowance for books and supplies, fees, and $100 subsistence allowance per academic month. Obligation: Two to four years of active duty or eight years of part-time employment (as above) upon receipt of commission. A limited number of scholarships are available to qualified students who desire a commission in the Army Reserve or National Guard.

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. 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 group requirements in the arts and humanities of the College of Arts and Science. Private study is also available to freshmen in the University Honors Program and to other non-majors, on a space-available basis, through the Music Merit Program. Auditions for these programs are held during the first week of the academic year by arrangement with the department office. A variety of performing organizations are available to all University students: marching band, wind and jazz ensembles, choral groups, gamelan, 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.*

During the academic year, there are many opportunities for students to participate in and attend musical events, including concerts, recitals and opera workshop productions. Over the years many significant musicians have been guests of the department: John Browning, Aaron Copland, John Corigliano, Norman Dello Joio, Eugene Fodor, Dizzy Gillespie, Howard Hanson, Lou Harrison, Karol Husa, Vincent Persichetti, Gunther Schuller, Gian Carlo Menotti, Robert Ward, and Joan Tower.

The faculty of the department include many accomplished performers who are recognized throughout North America and Europe for their artistry. In addition, many faculty have gained prominence through musical composition and scholarly publication. The department is a leader in the development of computer-based instruction in music and video-disc technology.

DEGREE: BACHELOR OF ARTS
MAJOR: MUSIC
CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing .......................... 3
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 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

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
(designated for students who do not intend to continue the study of mathematics)

MATH 115 Pre-Calculus ........................................................................ 3
(designated 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

Successful performance on the college proficiency exam.

Breadth Requirements *(See page 80)*

Group A ............................................................... 12 1-4
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas. (This requirement is partially 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 partially satisfied by MUSC 311, 312, and 313. HIST 101 and 102 are recommended)

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:

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 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 258 Advanced Ear Training and Sight Singing I ............................... 2 2-4
MUSC 258 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 three of the semesters in which they are enrolled in Applied Music.)

Literature
MUSC 111 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
(excludes private study) ............................................................... 1 1-4

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

* 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.

* Four semesters of recital attendance are required. No more than forty-five credits of music courses may count toward the degree.

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ELECTIVES
Electives
After required 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
CONCENTRATION: INSTRUMENTAL
CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ............................... 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

COLLEGE REQUIREMENTS
Skill Requirements
Writing: ........................................................................ 3
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Mathematics:
MATH 114 Elementary Mathematics and Statistics ............ 3
(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
HIST 101 Western Civilization to 1648 .......................... 3
HIST 102 Western Civilization: 1648 to the Present ......... 3
FTLT Languages courses ................................................. 8

Breadth Requirements? (See page 80)
Group A ........................................................................ 6
Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.)
Group B ........................................................................ 15
The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by MUSC 511, 512, 513, HIST 101, and 102.)
Group C ........................................................................ 9
Empirically based study of human beings and their environment. Nine credits representing at least two areas.

*Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26
+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.

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

MAJOR REQUIREMENTS
Within the Department
Applied Music
MUSC 100 Recital Attendance (six semesters required) .......... 0
MUSC 161 Private Study .................................................... 4
MUSC 162 Private Study .................................................... 4
MUSC 261 Private Study .................................................... 4
MUSC 262 Private Study .................................................... 4
MUSC 361 Private Study .................................................... 4
MUSC 362 Private Study .................................................... 4
MUSC 461 Private Study .................................................... 4
MUSC 462 Private Study .................................................... 4
MUSC 175 Class Piano: Elementary I .............................. 1
MUSC 176 Class Piano: Elementary II .............................. 1
MUSC 301 Junior Recital ................................................... 0
MUSC 401 Senior Recital ................................................... 0

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

Ensemble
Twelve credits selected from the following: ......................... 12
MUSC 115 Band, MUSC 116 Jazz Ensemble, MUSC 117
University Orchestra, MUSC 118 Percussion Ensemble, and
MUSC 312 Ensemble
(All Ensembles may be repeated.)

Guitarists must complete the following:
MUSC 321 Ensemble: Guitar ........................................... 8
MUSC 109, 115, 116, 117 or 118 ...................................... 1

Literature
MUSC 111 Introduction to Music History ........................ 3
MUSC 311 Music History: 1450-1750 ............................. 3
MUSC 312 Music History: 1715-1825 ............................. 3
MUSC 313 Music History: 1825 to the Present ................ 3
Music Elective ................................................................. 3

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

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

DEGREE: BACHELOR OF MUSIC
MAJOR: APPLIED MUSIC
CONCENTRATION: PIANO/ORGAN
CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing ............................... 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

*Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26
+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.
COLLEGE REQUIREMENTS

Skill Requirements

Writing: .................................................. 3
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Mathematics:
MATH 114 Elementary Mathematics and Statistics ................... 3
(designated for students who do not intend to continue the study of mathematics)
MATH 115 Pre-Calculus .................................. 3
(designated for students who intend to continue the study of mathematics)

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
HIST 101 Western Civilization to 1648 .......................... 3
HIST 102 Western Civilization: 1648 to the Present ............ 3
FLIT Languages courses ........................................................................... 8

Breadth Requirements? (See page 80)

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

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

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

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

MAJOR REQUIREMENTS

Within the Department

Applied Music
MUSC 100 Recital Attendance (six semesters required) .............. 0
MUSC 161 Private Study ........................................ 4
MUSC 162 Private Study ........................................ 4
MUSC 261 Private Study ........................................ 4
MUSC 262 Private Study ........................................ 4
MUSC 263 Private Study ........................................ 4
MUSC 265 Private Study ........................................ 4
MUSC 266 Private Study ........................................ 4
MUSC 267 Private Study ........................................ 4
MUSC 285 Sight Reading at the Keyboard I ...................... 1
MUSC 194 Sight Reading at the Keyboard II ...................... 1

Theory
MUSC 185 Ear Training and Sight Singing I .................. 2
MUSC 186 Ear Training and Sight Singing II ................ 2
MUSC 285 Advanced Ear Training and Sight Singing I .......... 2
MUSC 286 Advanced Ear Training and Sight Singing II ........ 2
MUSC 195 Harmony I ......................................... 3
MUSC 196 Harmony II ......................................... 3
MUSC 295 Advanced Harmony I ................................ 3
MUSC 296 Advanced Harmony II ................................ 3
MUSC 393 Keyboard Harmony .................................. 3
MUSC 394 Keyboard Harmony .................................. 3
MUSC Theory courses ......................................... 4

Ensemble
MUSC 321 Ensemble ............................................ 2
MUSC 241 Accompanying Chamber Music: Piano ............. 1
MUSC 242 Accompanying Chamber Music: Piano ............. 1
MUSC 341 Accompanying Chamber Music: Piano ............. 1
MUSC 342 Accompanying Chamber Music: Piano ............. 1
MUSC 441 Accompanying Chamber Music: Piano ............. 1
MUSC 442 Accompanying Chamber Music: Piano ............. 1

Literature
MUSC 111 Introduction to Music History ......................... 3
MUSC 311 Music History: 1450-1750 .......................... 3
MUSC 312 Music History: 1715-1825 .......................... 3
MUSC 313 Music History 1825 to the Present ................ 3
MUSC 365 Keyboard Literature I .................................. 3
MUSC 364 Keyboard Literature II .................................. 3
Music Literature course .......................................... 3

Music Electives
Excludes private study on primary instrument. ................. 3
May include two credits of ensemble.

CREDITS TO TOTAL A MINIMUM OF ................................................. 137

DEGREE: BACHELOR OF MUSIC
MAJOR: APPLIED MUSIC
CONCENTRATION: VOICE

CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ............................................................................................................. 3
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Mathematics:
MATH 114 Elementary Mathematics and Statistics ............ 3
(designated for students who do not intend to continue the study of mathematics)

*Superior figures indicate year or years in which the course is normally taken, i.e., 1 freshman year, 2 sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, breadth, or elective requirements. See page 26.
†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.
‡Organ Majors may substitute MUSC 385, MUED 386, or MUSC 388.

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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

   Successful performance on the college proficiency exam.
   HIST 102 Western Civilization: 1648 to the Present ........... 3
   Languages courses (French, German and Italian) .............. 2
   THEA 226 Acting I ............................................ 3

   Breadth Requirements (See page 80)

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

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

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

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

   MAJOR REQUIREMENTS

   Within the Department

   Applied Music
   MUSC 100 Recital Attendance (six semesters required) ........ 0
   MUSC 161 Private Study .......................................... 4
   MUSC 162 Private Study .......................................... 4
   MUSC 261 Private Study .......................................... 4
   MUSC 262 Private Study .......................................... 4
   MUSC 361 Private Study .......................................... 4
   MUSC 362 Private Study .......................................... 4
   MUSC 461 Private Study .......................................... 4
   MUSC 462 Private Study .......................................... 4
   MUSC 175 Class Piano: Elementary I ............................ 1
   MUSC 176 Class Piano: Elementary II ............................ 1
   MUSC 275 Class Piano: Intermediate I ........................... 1
   MUSC 276 Class Piano: Intermediate II ........................... 1
   MUSC 301 Junior Recital ........................................... 0
   MUSC 401 Senior Recital .......................................... 0

   Theory
   MUSC 185 Ear Training and Sight Singing I ....................... 2
   MUSC 186 Ear Training and Sight Singing II ....................... 2
   MUSC 285 Advanced Ear Training and Sight Singing I .......... 2
   MUSC 286 Advanced Ear Training and Sight Singing II .......... 2
   MUSC 195 Harmony I ............................................. 3
   MUSC 196 Harmony II ............................................ 3
   MUSC 295 Advanced Harmony I .................................... 3
   MUSC 296 Advanced Harmony II .................................... 3

   Ensemble
   MUSC 109 Choral Union ........................................... 8

   Literature
   MUSC 111 Introduction to Music History .......................... 3
   MUSC 311 Music History: 1450-1750 ................................ 3
   MUSC 312 Music History: 1715-1825 ................................ 3

   MUSC 313 Music History: 1825 to the Present .................... 3

   Related Music Studies
   MUSC 171 Diction: English ........................................ 1
   MUSC 172 Diction: Italian ......................................... 1
   MUSC 271 Diction: German ........................................ 1
   MUSC 277 Diction: French ........................................ 2
   MUSC 365 Vocal Coaching I ....................................... 1
   MUSC 465 Vocal Coaching II ...................................... 1
   MUSC 489 Opera Workshop ....................................... 1

   Music Electives
   Twelve credits from the following: (including four credits from MUSC 227, 228 and/or 229)

   MUSC 103 Introduction to Opera .................................... 3
   MUSC 327 German Lied ............................................ 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 479 Opera Production ........................................ 3
   MUSC 480 Vocal Pedagogy .......................................... 5
   MUSC 489 Opera Workshop (up to 3 credits allowed) .......... 1
   MUSC 495 Analysis for Performance .............................. 3

   ELECTIVES

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

   CREDITS TO TOTAL A MINIMUM OF .................................. 140

   DEGREE: BACHELOR OF MUSIC

   MAJOR: MUSIC EDUCATION

   CONCENTRATION: INSTRUMENTAL

   CURRICULUM

   CREDITS*

   UNIVERSITY REQUIREMENTS
   ENGL 110 Critical Reading and Writing ................................ 3
   Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

   COLLEGE REQUIREMENTS

   Skill Requirements

   Writing:
   ............................................................................. 3
   A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

   Mathematics:
   MATH 114 Elementary Mathematics and Statistics ............... 3
   (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 freshmen year, 2 sophomore year, etc.

   #This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 56.

   †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.
MAJOR REQUIREMENTS

Within the Department

Applied Music
MUSC 100 Recital Attendance (six semesters required) 0.5
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
MUSC 176 Class Piano: Elementary II 1.1
MUSC 174 Class Voice: Beginning 1.1
MUSC 301 Junior Recital 0.5

Theory
MUSC 185 Ear Training and Sight Singing I 2.1
MUSC 189 Ear Training and Sight Singing II 2.1
MUSC 285 Advanced Ear Training and Sight Singing I 2.3
MUSC 286 Advanced Ear Training and Sight Singing II 2.3
MUSC 195 Harmony I 3.1
MUSC 196 Harmony II 3.1
MUSC 295 Advanced Harmony I 3.1
MUSC 290 Advanced Harmony II 3.1
MUSC 331 Orchestration 2.5

Ensemble
MUSC 115 Band 7.5

Literature
MUSC 111 Introduction to Music History 3.5
Six credits to be selected from the following:
MUSC 311 Music History: 1450-1750 3.5
MUSC 312 Music History: 1715-1825 3.5
MUSC 313 Music History: 1825 to the Present 3.5

Secondary Instruments
MUSC 214 Stringed Instruments Class 1.5
MUSC 215 High Brass Instruments Class 1.5
MUSC 216 Low Brass Instruments Class 1.5
MUSC 217 Woodwind Instruments Class I 1.5
MUSC 218 Woodwind Instruments Class II 1.5
MUSC 219 Percussion Instruments 1.5

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

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: KEYBOARD

CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing 3.5
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content 3.5

COLLEGE REQUIREMENTS

Skill Requirements
Writing: 3.5
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Mathematics:
MATH 114 Elementary Mathematics and Statistics 3.5 (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 80)
Art or Art History course, may be from Group A or B 3.5

Group A 9.5
Understanding and appreciation of the creative arts and humanities. Nine credits representing at least two areas. (This requirement is partially satisfied by MUSC 195 and 196.)
Group B
The study of culture and institutions over time. (MUSC 311, 312, and 315 count toward completion of this requirement.)

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

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

MAJOR REQUIREMENTS
Within the Department

Applied Music
MUSC 100 Recital Attendance (six semesters required) 0.5
MUSC 161 Private Study 2.0
MUSC 162 Private Study 2.0
MUSC 161 Private Study 2.0
MUSC 262 Private Study 2.0
MUSC 265 Private Study 2.0
MUSC 291 Private Study 2.0
MUSC 292 Private Study 2.0
MUSC 361 Private Study 2.0
MUSC 362 Private Study 2.0
MUSC 461 Private Study 2.0
MUSC 174 Class Voice: Beginning 1.5
MUSC 274 Class Voice: Advanced 1.5
MUSC 480 Vocal Pedagogy 3.5
MUSC 171 Diction: English 1.0
MUSC 172 Diction: Italian 1.0
MUSC 271 Diction: German 1.0
MUSC 272 Diction: French 1.0
MUSC 301 Junior Recital 0.5

Theory
MUSC 185 Ear Training and Sight Singing I 2.0
MUSC 186 Ear Training and Sight Singing II 2.0
MUSC 285 Advanced Ear Training and Sight Singing I 2.5
MUSC 286 Advanced Ear Training and Sight Singing II 2.5
MUSC 195 Harmony I 3.2
MUSC 196 Harmony II 3.2
MUSC 295 Advanced Harmony I 3.2
MUSC 296 Advanced Harmony II 3.2
MUSC 397 Contemporary Harmony 3.5

Ensemble
MUSC 109 Choral Union 7.4

Literature
MUSC 111 Introduction to Music History 3.5
Six credits to be selected from:
MUSC 311 Music History: 1450-1750 3.5
MUSC 312 Music History: 1715-1825 3.5
MUSC 313 Music History: 1825 to the Present 3.5
MUSC 328 Choral Literature 3.4

Secondary Instruments
MUSC 214 Stringed Instruments Class 1.4
MUSC 215 High Brass Instruments Class 1.4
or
MUSC 217 Woodwind Instruments Class I 1.0

Music Methods
MUSC 335 Basic Conducting 2.0
MUED 279 Practicum in Music Education 3.0
MUED 286 Choral Conducting 2.6
MUED 379 Music in the Elementary and Junior High (or Middle) School 3.4

Music Electives
Three credits of music electives excluding ensemble and private study on primary instrument. (MUSC 407 recommended)

Professional Studies

Education
EDST 201 Education and Society 3.1
EDST 306 Educational Psychology - Social Aspects 3.1
EDST 405 Educational Psychology - Cognitive Aspects 3.1
EDDV 400 Student Teaching 9.1

CREDITS TO TOTAL A MINIMUM OF 126

DEGREE: BACHELOR OF MUSIC
MAJOR: MUSIC EDUCATION—GENERAL/CHORAL
CONCENTRATION: VOICE

CURRICULUM

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 #

COLLEGE REQUIREMENTS

Skill Requirements
Writing:
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Mathematics:
MATH 114 Elementary Mathematics and Statistics 3.1
Or
MATH 115 Pre-Calculus 3.0
(Designed for students who intend to continue the study of mathematics)
Or
One of the following:
MATH 221 Calculus I 3.0
MATH 241 Analytic Geometry and Calculus A 4.0
Or
Successful performance on the college proficiency exam.

Breadth Requirements! (See page 80)
Art or Art History course, may be from Group A or B 3.1

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

Group B
The study of culture and institutions over time. (MUSC 311, 312, and 315) count toward completion of this requirement.

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

*Superior figures indicate year or years in which the course is normally taken, i.e., 1st year, 2nd year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26
#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.
Group D
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
- MUSC 161 Private Study 1
- MUSC 162 Private Study 1
- MUSC 261 Private Study 2
- MUSC 262 Private Study 2
- MUSC 361 Private Study 2
- MUSC 362 Private Study 2
- MUSC 461 Private Study 2
- MUSC 175 Class Piano: Elementary I 1
- MUSC 176 Class Piano: Elementary II 1
- MUSC 275 Class Piano: Intermediate I 1
- MUSC 276 Class Piano: Intermediate II 1
- MUSC 171 Diction: English 1
- MUSC 172 Diction: Italian 1
- MUSC 271 Diction: German 1
- MUSC 272 Diction: French 1
- MUSC 480 Vocal Pedagogy 3
- MUSC 301 Junior Recital 0

Theory
- MUSC 185 Ear Training and Sight Singing I 1
- MUSC 186 Ear Training and Sight Singing II 1
- MUSC 285 Advanced Ear Training and Sight Singing I 2
- MUSC 286 Advanced Ear Training and Sight Singing II 2
- MUSC 195 Harmony I 3
- MUSC 196 Harmony II 3
- MUSC 295 Advanced Harmony I 3
- MUSC 296 Advanced Harmony II 3
- MUSC 397 Contemporary Harmony 3

Ensemble
- MUSC 199 Choral Union 7

Literature
- MUSC 111 Introduction to Music History 3

Six credits to be selected from:
- MUSC 311 Music History: 1450-1750 3
- MUSC 312 Music History: 1750-1825 3
- MUSC 313 Music History: 1825 to the Present 3
- MUSC 328 Choral Literature 3

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

Music Methods
- MUSC 335 Basic Conducting 2
- MUED 270 Practicum in Music Education 2
- MUED 336 Choral Conducting 2
- MUED 379 Music in the Elementary and Junior High (or Middle) School 3
- MUED 479 Secondary Music Materials and Approaches 3

Music Electives
Three credits of music electives excluding ensemble and private study on primary instrument. (MUSC 407 recommended) 3

Professional Studies

Education
- EDST 201 Education and Society 3
- EDST 304 Educational Psychology—Social Aspects 3
- EDST 305 Educational Psychology—Cognitive Aspects 3
- EDDV 400 Student Teaching 3

CREDITS TO TOTAL A MINIMUM OF 128

DEGREE: BACHELOR OF MUSIC
MAJOR: THEORY AND COMPOSITION
CONCENTRATION: THEORY OR COMPOSITION

CURRICULUM

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing 3

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3

A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Mathematics:
- MATH 114 Elementary Mathematics and Statistics 3 (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 4
  - 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 12
  - or Italian
- HIST 101 Western Civilization to 1648 3
- HIST 102 Western Civilization 1648 to the Present 3

Breadth Requirements (See page 80)
Two 200-level English literature courses selected from 6
- Group A or B

Group A
- Understanding and appreciation of the creative arts and humanities. (This requirement is satisfied by MUSC 195 and 196.)
- Group B
- The study of culture and institutions over time. Fifteen credits representing at least two areas. (This requirement is satisfied by MUSC 311, 312, 313, HIST 101, and 102.)

*Superior figures indicate year or years in which the course is normally taken, i.e., freshman year, sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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.

150
A variety of ensembles are recommended, including Chamber ensembles.

**Lesson** The study of natural phenomena through experiment and analysis. Ten credits in at least two areas. Must include one course with an associated laboratory.

### MAJOR REQUIREMENTS

**Within the Department**

**Applied Music**

- MUSC 100 Recital Attendance (six semesters required) .................................................. 0.5
- MUSC 175 Class Piano: Elementary I .................................................................................. 1.2
- MUSC 176 Class Piano: Elementary II .................................................................................. 1.2
- MUSC 275 Class Piano: Intermediate I .................................................................................. 1.5
- MUSC 276 Class Piano: Intermediate II .................................................................................. 1.8

**Secondary Instruments and Conducting**

- MUSC 214 Stringed Instruments Class .................................................................................. 1.4
- MUSC 215 High Brass Instruments Class .............................................................................. 1.4
- MUSC 217 Woodwinds Class I ............................................................................................... 1.4
- MUSC 219 Percussion Instruments ....................................................................................... 1.4
- MUSC 335 Basic Conducting ................................................................................................. 2.4

**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 ................................................... 2.1,2
- MUSC 286 Advanced Ear Training and Sight Singing II ................................................... 2.2,2
- 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 .................................................................................................... 3.2,4
- MUSC 385 Electronic Music I .............................................................................................. 3.1,4
- MUSC 392 Counterpoint Writing ....................................................................................... 3.2,4
- MUSC 393 Keyboard Harmony I ....................................................................................... 3.1,4
- MUSC 394 Keyboard Harmony II ....................................................................................... 3.1,4
- MUSC 395 Form Analysis .................................................................................................. 3.3,4
- MUSC 397 Contemporary Harmony .................................................................................. 3.3,4

**Theory Majors**

- MUSC 485 Pedagogy of Theory ....................................................................................... 3.4
- MUSC 420 Advanced Composition .................................................................................... 3.4
- MUSC 421 Special Projects in Music Theory .................................................................... 3.4

**Composition Majors**

- MUSC 485 Pedagogy of Theory ....................................................................................... 3.4
- MUSC 420 Advanced Composition .................................................................................... 3.4
- MUSC 421 Special Projects in Music Theory .................................................................... 3.4
- MUSC 420 Advanced Composition .................................................................................... 3.4

**Literature**

- MUSC 111 Introduction to Music History ......................................................................... 3.2,3
- MUSC 311 Music History: 1450-1750 ............................................................................... 3.2,3
- MUSC 212 Music History: 1715-1825 ............................................................................... 3.5,4
- MUSC 313 Music History: 1825 to the Present ................................................................ 3.5,4
- MUSC 407 Twentieth-Century Music .............................................................................. 3.3,4

**Ensemble**

A variety of ensembles are recommended, including Chamber ensembles.

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

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**Requirements for a Minor in Music**

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

**Music Minor: Applied Music**

The Applied Music minor is for nonmusic majors with some musical background who wish to continue their musical training on a more formal basis. 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 ........................................... 5
  - MUSC 185 and 195 ...............................................
  - Music Literature/History ........................................ 3
  - (MUSC 101 and 102 do not fulfill this requirement.
  - Any other music history course will do.)

**Total Credits**: 21

(For Keyboard 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 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

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*Not required of persons minorin in applied keyboard.

**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.

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

DEGREE: BACHELOR OF ARTS
MAJOR: PHILOSOPHY
CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing 3
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 0-12
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.

MATH 114 Elementary Mathematics and Statistics 3
(designed for students who do not intend to continue the study of mathematics)

Mathematics:
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 80)

Group A 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D 13
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

PHIL 105 Clear Thinking 3
PHIL 205 Logic 3
PHIL 203 Ethics 3
PHIL 301 Ancient Philosophy 3
PHIL 303 Modern Philosophy 3
PHIL 465 Philosophical Topics 3

Fifteen additional Philosophy credits at least six of which must be at the 300 level or above. Must include one of the following:

PHIL 302 Medieval Philosophy 3
PHIL 304 Nineteenth Century Philosophy 3
PHIL 305 Twentieth Century Philosophy 3
PHIL 317 American Philosophy 3
PHIL 320 Experience, Knowledge and Reality 3

Within the College

Six of the hours in the student’s program must consist of 6
multicultural courses, selected in consultation with the advisor, from suitable courses in Philosophy, Black-American Studies, Women's Studies, Jewish Studies, or Oriental, Latin-American or African Studies. The six hours may include courses in Philosophy which count toward completing the major requirement.

ELECTIVES

Electives
After required 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.

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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.
REQUIREMENTS FOR A MINOR IN PHILOSOPHY
A minor in philosophy requires a minimum of 15 credits, consisting of PHIL 105 or 205; PHIL 203; PHIL 301 or PHIL 303; an additional 300-level PHIL course; and a PHIL elective.

The American Philosophical Association’s national headquarters is on the Delaware campus.

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. Through the stimulation of this research activity the challenges and satisfactions of a career in physics are made evident to all students in the department.

DEGREE: BACHELOR OF ARTS
MAJOR: PHYSICS

CURRICULUM

CREDITS

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3.5
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: 0-12
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 (designed for students who do not intend to continue the study of mathematics) 3
or
MATH 115 Pre-Calculus (designed for students who intend to continue the study of mathematics) 3

One of the following:
MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
(MS satisfies the Math Skills requirement and is strongly recommended as the first math course for physics majors, unless the placement exam suggests differently.)

Successful performance on the college proficiency exam.

Breadth Requirements (See page 80)

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

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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. (PHYS 207, 208, and CHEM 103, 104 are strongly recommended to satisfy this group requirement.)

MAJOR REQUIREMENTS

Within the Department

Within the College

MATH 241 Analytic Geometry and Calculus A (recommended) 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
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.

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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.

‡German, Russian, or French is suggested for the foreign language requirement.

§Ordinarily, no more than four credits from among PHYS 101, 201, and 207 may be counted toward graduation requirements; similarly no more than four from among PHYS 102, 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

Electives
After required 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
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

College Requirements

Skill Requirements
Writing 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language 0-12
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.

Breadth Requirements (See page 89)
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

PHYS 207 General Physics 4
PHYS 208 General Physics 4
PHYS 209 General Physics 4
PHYS 313 Physical Optics 4
PHYS 419 Analytical Mechanics 3
PHYS 608 Electricity and Magnetism 3
PHYS 604 Electricity and Magnetism 3
PHYS 616 Kinetic Theory and Thermodynamics 3

PHYS 617 Atomic and Nuclear Physics Laboratory 1
PHYS 618 Atomic and Nuclear Physics Laboratory 1
PHYS 620 Analytical Mechanics 3
PHYS 621 Introduction to Modern Physics 3
PHYS 622 Introduction to Modern Physics 3
PHYS 645 Electronics for Scientists 3
PHYS 646 Instrumentation for Scientists 3

Within the College

Mathematics

MATH 241 Analytic Geometry and Calculus A 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 302 Ordinary Differential Equations 3
MATH 503 Advanced Calculus for Applications 3

One of the following four courses:
MATH 349 Elements of Linear Systems 3
MATH 508 Introduction to Complex Variables and Applications 3
MATH 514 Topics in Advanced Mathematics for Engineers 3
MATH 521 Fourier Series and Orthogonal Polynomials 3

Natural Science

CHEM 103 General Chemistry 4
CHEM 104 General Chemistry 4

Electives

Electives
After required 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
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

College Requirements

Skill Requirements
Writing 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language 0-12
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.

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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 101, 201, and 207 may be counted toward graduation requirements; similarly no more than four from among PHYS 102, 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.

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Breadth Requirements (See page 80)
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:
- PHYS 207 General Physics
- PHYS 208 General Physics
- PHYS 209 General Physics
- PHYS 313 Physical Optics
- PHYS 419 Analytical Mechanics
- PHYS 620 Analytical Mechanics
- PHYS 207 General Physics
- MATH 503 Advanced Calculus for Applications
- MATH 302 Ordinary Differential Equations
- MATH 241 Analytic Geometry and Calculus A
- MATH 242 Analytic Geometry and Calculus B

Electives
After required 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

CREDITS*

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content

COLLEGE REQUIREMENTS
Skill Requirements
Writing
A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language
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.

Breadth Requirements (See page 80)
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:
- PHYS 207 General Physics
- PHYS 208 General Physics
- PHYS 209 General Physics
- PHYS 313 Physical Optics
- PHYS 419 Analytical Mechanics
- PHYS 620 Analytical Mechanics
- PHYS 207 General Physics
- MATH 503 Advanced Calculus for Applications
- MATH 302 Ordinary Differential Equations
- MATH 241 Analytic Geometry and Calculus A
- MATH 242 Analytic Geometry and Calculus B

Electives
After required 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

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

1This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

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 101, 201, and 207 may be counted toward graduation requirements; similarly no more than four from among PHYS 102, 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.
Natural Science

CHEM 105 General Chemistry
CHEM 104 General Chemistry
CHEM 321 Organic Chemistry
CHEM 322 Organic Chemistry
CHEM 325 Organic Chemistry Laboratory
CHEM 326 Organic Chemistry Laboratory
CHEM 457 Inorganic Chemistry

Electives

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

CREDITS TO TOTAL A MINIMUM OF 130

Degree: Bachelor of Science

Major: Physics

Concentration: Applied Physics

Curriculum

University Requirements

ENGL 110 Critical Reading and Writing
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

College Requirements

Skill Requirement

Writing

A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Breadth Requirements (See page 80)

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

PHYS 207 General Physics
PHYS 208 General Physics
PHYS 209 General Physics
PHYS 313 Physical Optics

PHYS 419 Analytical Mechanics
PHYS 645 Electronics for Scientists
PHYS 646 Instrumentation for Scientists
PHYS 621 Introduction to Modern Physics
PHYS 622 Introduction to Modern Physics
PHYS 616 Kinetic Theory and Thermodynamics
PHYS 627 Advanced Laboratory Techniques
PHYS 617 Atomic and Nuclear Physics Laboratory
PHYS 618 Atomic and Nuclear Physics Laboratory

Within the College

Mathematics:

MATH 241 Analytic Geometry and Calculus A
MATH 242 Analytic Geometry and Calculus B
MATH 245 Analytic Geometry and Calculus C
MATH 302 Ordinary Differential Equations

One of the following five courses:

MATH 449 Elements of Linear Systems
MATH 503 Advanced Calculus for Applications
MATH 508 Introduction to Complex Variables and Applications
MATH 514 Topics in Advanced Mathematics for Engineers
MATH 521 Fourier Series and Orthogonal Polynomials

Natural Science

CHEM 103 General Chemistry
CHEM 104 General Chemistry

Computer Science

CISC 105 General Computer Science
CISC 300 Introduction to Scientific Computation

External to the College

ELEG 205 Linear Circuit Theory I
ELEG 509 Electronic Circuit Analysis I

Six additional credits of technical engineering or computer science courses

Electives

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

CREDITS TO TOTAL A MINIMUM OF 130

Degree: Bachelor of Arts

Major: Physics Education

Curriculum

University Requirements

ENGL 110 Critical Reading and Writing
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

College Requirements

Skill Requirement

Writing

A 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.

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

2 This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 80.

3 Ordinarily, no more than four credits from among PHYS 101, 201, and 207 may be counted toward graduation requirements; similarly no more than four from among PHYS 102, 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.
words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**Foreign Language** ..... 0-12 
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
(designed for students who do not intend to continue the study of mathematics)
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
(Satisfies the Math Skills requirement and is strongly recommended as the first math course for physics majors, unless the placement exam suggests differently)

or

Successful performance on the college proficiency exam.

**Breadth Requirements** (See page 80)

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

**Group B**
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

**Group D**
The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas or appropriate instructional units and including a minimum of one course with an associated laboratory (This requirement is satisfied by PHYS 207, 208 and CHEM 103, 104.)

**MAJOR REQUIREMENTS**

**Within the Department**
PHYS 207 General Physics ..... 4
PHYS 208 General Physics ..... 4
PHYS 209 General Physics ..... 5
Nineteen credits, fifteen of which must be at the 300 level ..... 19

Other

**Within the College**
MATH 241 Analytic Geometry and Calculus A ..... 4
MATH 242 Analytic Geometry and Calculus B ..... 4
MATH 243 Analytic Geometry and Calculus C ..... 4
CHEM 103 General Chemistry ..... 4
CHEM 104 General Chemistry ..... 4

**Professional Studies**
EDST 201 Education and Society ..... 3
EDST 204 Educational Psychology - Social Aspects ..... 3
EDST 305 Educational Psychology - Cognitive Aspects ..... 3
SCEN 401 Teaching Science in Secondary Schools ..... 4

EDST 420 Reading in the Content Areas ..... 1
EDDV 400 Student Teaching ..... 9

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

**BACHELOR OF SCIENCE (GEOPHYSICS) CURRICULUM**

In addition to the B.A. and B.S. degrees in physics, and the varied options available within them, the Physics and Astronomy Department, in cooperation with the Geology Department, offers a B.S. degree in geophysics. This degree provides a well-balanced introduction to those areas of physics and geology relevant to the geophysical study of the earth and planets, their structure and behavior. The requirements of the B.S. program in geophysics and a course sequence are outlined in the Geology section of this catalog.

**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 is designed to encourage the student to analyze the theories, institutions, and processes of political systems in the context provided by the social sciences; to stimulate the student to attain a grasp of the broad sweep of political science as a discipline; to develop a continuing interest in political activity and public affairs; to provide the student with the opportunity to acquire a fundamental understanding of political science as a basis for citizenship, a career in government, or professional study or service; and to stimulate 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.

†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: POLITICAL SCIENCE**

**CURRICULUM**

**UNIVERSITY REQUIREMENTS**

ENGL 110  Critical Reading and Writing  
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.  

**COLLEGE REQUIREMENTS**

**Skill Requirements**

**Writing:**  
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**Foreign Language:**  
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 examination examination.

**Mathematics:**

MATH 114  Elementary Mathematics and Statistics  
(designated for students who do not intend to continue the study of mathematics)

MATH 115  Pre-Calculus  
(designated for students who intend to continue the study of mathematics)

One of the following:

- MATH 221  Calculus I  
- MATH 241  Analytic Geometry and Calculus A

Successful performance on the college proficiency exam.

**Breadth Requirements**

- **Group A:** Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.
- **Group B:** The study of culture and institutions over time. Twelve credits representing at least two areas.
- **Group C:** Empirically based study of human beings and their environment. Twelve credits representing at least two areas.
- **Group D:** 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.

**Within the Department**

POSC 105  The American Political System  
Nineteen credits distributed as follows:

- 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:
  - American Government and Politics
  - Comparative Government and Politics

**DEGREE: BACHELOR OF ARTS**  
**MAJOR: POLITICAL SCIENCE EDUCATION**

**CURRICULUM**

**UNIVERSITY REQUIREMENTS**

ENGL 110  Critical Reading and Writing  
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

**COLLEGE REQUIREMENTS**

**Skill Requirements**

**Writing:**  
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

**Foreign Language:**  
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 examination examination.

**Mathematics:**

MATH 114  Elementary Mathematics and Statistics  
(designated for students who do not intend to continue the study of mathematics)

MATH 115  Pre-Calculus  
(designated for students who intend to continue the study of mathematics)

One of the following:

- MATH 221  Calculus I
- MATH 241  Analytic Geometry and Calculus A

Successful performance on the college proficiency exam.

**Breadth Requirements**

- **Group A:** Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.
The required 15 credits for a minor are distributed as follows:

**Group B**
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

**Group D**
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.

**Within the Department**
- POSC 105 The American Political System 3
- Eighteen credits distributed as follows: 18
  - Nine credits from courses at the 400 level; nine credits from courses at the 300 or 400 level.
  - A student must take at least one course numbered at the 300 or 400 level in four of the five fields listed below:
    - 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
- including POSC 302 Research Methods (Recommended)
- 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
  - Anthropology course 3
  - Economics course 3
  - Geography course 3
  - History course 3
  - Sociology course 3
  - PSYC 201 General Psychology 3
  - Six additional credits selected from the departments listed above 6

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

**CREDITS TO TOTAL A MINIMUM OF** 124

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 with consent of the instructor and without prerequisites.

**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 Organization Theory, Public Personnel Administration, and Public Financial Management 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. Campus facilities available to students include laboratories for the study of cognitive, learning, perceptual, physiological, and social processes and for the investigation of clinically interesting phenomena. Computers available for modeling psychological processes and for data analysis include terminals tied to the Computing Center and several minicomputers in the department's laboratories. Additional facilities in nearby institutions are used for the attainment of research and teaching objectives.
DEGREE: BACHELOR OF ARTS  
MAJOR: PSYCHOLOGY

CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing ........................................ 3
A 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 in a stu-  
dent's junior or senior year. Appropriate writing courses are  
normally designated in the semester's Registration Booklet.

Foreign Language .................................. 0-12
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 require-  
ment in that language by taking an exemption examination.

Mathematics:
MATH 114 Elementary Mathematics and Statistics  ........................................ 3
(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 80)

Group A ........................................ 12
Understanding and appreciation of the creative arts and  
humanities. Twelve credits representing at least two areas

Group B ........................................ 12
The study of culture and institutions over time. Twelve credits  
representing at least two areas.

Group C ........................................ 12
Empirically based study of human beings and their environ-  
ment. Twelve credits representing at least two areas.

Group D ........................................ 13
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 associat-  
ed laboratory.

MAJOR REQUIREMENTS

Within the Department
PSYC 201 General Psychology ........................................ 3
PSYC 309 Measurement and Statistics† ........................................ 3
PSYC 415 History and Systems of Psychology†† ........................................ 3

One of the following four courses:
PSYC 301 Personality† ........................................ 3
PSYC 303 Introduction to Social Psychology† ........................................ 3
PSYC 325 Child Psychology† ........................................ 3
PSYC 334 Abnormal Psychology† ........................................ 3

One of the following four courses:
PSYC 350 Developmental Psychology†† ........................................ 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
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.

Three credits of any Psychology course  
(except PSYC 301, 303, 325 and 334) ........................................ 3

ELECTIVES

Electives

After required 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

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing ........................................ 3
A 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 in a stu-  
dent's junior or senior year. Appropriate writing courses are  
normally designated in the semester's Registration Booklet.

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year; ²sophomore year; etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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.
‡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.
Foreign Language ........................................ 0-12\(^{14}\)
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 require-
ment in that language by taking an exemption examination.

Mathematics:
MATH 114 Elementary Mathematics and Statistics ........................................ 3\(^{1}\)
...(designated for students who do not intend to continue the study
of mathematics)
or
MATH 115 Pre-Calculus ........................................ 3
...(designated 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 80)

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

Group B
The study of culture and institutions over time. Twelve credits
representing at least two areas.

Group C
Empirically based study of human beings and their environ-
ment. Twelve credits representing at least two areas.

Group D
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 associat-
ed laboratory.

MAJOR REQUIREMENTS

Within the Department
PSYC 201 General Psychology ........................................ 3\(^{1}\)
PSYC 309 Measurement and Statistics† ........................................ 3\(^{12}\)
PSYC 415 History and Systems of Psychology††† ........................................ 3\(^{4}\)
One of the following four courses:
PSYC 301 Personality†‡ ........................................ 3\(^{12}\)
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\(^{2}\)
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\(^{2}\)
PSYC 312 Learning and Motivation†‡ ........................................ 3
PSYC 314 Brain and Behavior†‡ ........................................ 3
PSYC 340 Cognition†‡ ........................................ 3

Two courses at or above the 400 level ........................................ 6\(^{14}\)
However, PSYC 466 and 468 may not be used to fulfill
this requirement.
Three credits of any Psychology course (except PSYC 301, 303, 325 and 334) ........................................ 3\(^{2}\)

Within the College
Twenty-four credits in the following social sciences with at least
three credits in each department:
Anthropology course ........................................ 3\(^{1}\)
Economics course ........................................ 3\(^{1}\)
Geography course ........................................ 3\(^{1}\)
History course ........................................ 3\(^{1}\)
Political Science course ........................................ 3\(^{1}\)
Sociology course ........................................ 3\(^{1}\)
Six additional credits selected from the departments listed above ........................................ 6\(^{14}\)

Professional Studies
EDST 201 Education and Society ........................................ 3\(^{1}\)
EDST 304 Educational Psychology – Social Aspects ........................................ 3\(^{1}\)
EDST 305 Educational Psychology – Cognitive Aspects ........................................ 3\(^{1}\)
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\(^{1}\)
EDDV 400 Student Teaching ........................................ 9\(^{4}\)

ELECTIVES

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

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

Students in the University Honors Program may
major in psychology. In addition to the general require-
ments for a major, specific requirements for those in the
Honors Program may be obtained from the department
or the Honors Program office.

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 fol-
lowing 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.

*Superior figures indicate year or years in which the course is normally taken, i.e., year, sophomore year, etc.
†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
‡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.
§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 301 is taken, PSYC 370 may not be counted for the major; If PSYC 303 is taken, PSYC 390 may not be counted for the major.
If PSYC 325 is taken, PSYC 350 may not be counted for the major; If PSYC 350 is taken, PSYC 380 may not be counted for the major.
If both courses in one of the above pairs are taken, only the lower numbered course will count toward the 90 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.
SOCIOLGY

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.

Careers available to students with undergraduate degrees have changed dramatically in the past decade. Some occupations have become glutted with qualified applicants, while others are expanding rapidly and need new, competent professionals. Currently, many sociology students see expanding opportunities 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) pre-graduate 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: SOCIOLGY

CURRICULUM

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing 3

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language 0-12
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 MATH 170 Elementary Mathematics and Statistics 3 (designed for students who do not intend to continue the study of mathematics)
MATH 115 MATH 171 Pre-Calculus 3 (designated 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 80)

Group A 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D 13
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

SOCI 201 Introduction to Sociology 5
SOCI 301 Introduction to Sociological Research 5
SOCI 312 Theories of Society 5
Seven Sociology courses 21

No more than 12 credits at the 200 level. At least 6 credits must be at the 400 level or higher.

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

ELECTIVES

Electives

After required 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., ♯ freshman year, ♯ sophomore year, etc.

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 86.

‡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: SOCIOLOGY
CONCENTRATION: PREGRADUATE WORK

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ........................................................................................................... 3
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: ..................................................................................... 0-12
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 examination.

Mathematics:

MATH 114 or MATH 170 Elementary Mathematics and Statistics .................................................. 3
(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

One of the following:

MATH 221 Calculus I ................................................................................... 5
MATH 241 Analytic Geometry and Calculus A ........................................................................ 4

or

Successful performance on the college proficiency exam.

Breadth Requirements† (See page 80)

Group A ........................................................................................................ 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B ........................................................................................................ 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C ........................................................................................................ 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D ........................................................................................................ 15
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

SOCI 201 Introduction to Sociology ................................................................. 3
SOCI 301 Introduction of Sociological Research .................................................. 3
SOCI 312 Theories of Society ........................................................................... 3

Two Sociology courses at the 600 level ..................................................................... 6
SOCI 605 Data Collection .................................................................................. 3
or

SOCI 612 Development of Sociological Theory .................................................. 3
Any four additional Sociology courses .................................................................. 12

No more than 12 credits at the 200 level. At least 6 credits must be at the 400 level or higher.

Within the College

Statistics course ................................................................................................ 3
Four courses from Group G chosen with the approval of the 12
student’s adviser.

ELECTIVES

Electives

After required 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*

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: ........................................................................................................... 3
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: ..................................................................................... 0-12
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 examination.

Mathematics:

MATH 114 or MATH 170 Elementary Mathematics and Statistics .................................................. 3
(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 performance on the college proficiency exam.

Breadth Requirements† (See page 80)

Group A ........................................................................................................ 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B ........................................................................................................ 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C ........................................................................................................ 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D ........................................................................................................ 15
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

SOCI 201 Introduction to Sociology ................................................................. 3
SOCI 301 Introduction of Sociological Research .................................................. 3
SOCI 312 Theories of Society ........................................................................... 3

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26

†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 80)

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

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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
SOCI 201 Introduction to Sociology 3
SOCI 301 Introduction to Sociological Research 3
SOCI 312 Theories of Society 3
SOCI 341 Welfare and Society 3
SOCI 348 Theories of Social Work Practice 3

Any five courses in Sociology, the following are recommended 15

SOCI 292 Social Deviance 3
SOCI 294 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.

SOCI 441 Social Welfare Practicum and Seminar 4

This course is required but does not count as part of the thirty Sociology credits for the major.

Within the College

Eleven additional credits of related work are required and may include the following:

POSC 411 Politics and Poverty 3
PSYC 301 Personality 3
PSYC 322 Psychology of Adjustment 3
PSYC 325 Child Psychology 3
PSYC 334 Abnormal Psychology 3
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

Electives
After required 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*

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: 0-12
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 or MATH 170 Elementary Mathematics and Statistics 3 (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

One of the following:

MATH 221 Calculus I 3
MATH 241 Analytic Geometry and Calculus A 4
Successful performance on the college proficiency exam.

Breadth Requirements† (See page 80)

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

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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
SOCI 201 Introduction to Sociology 3
SOCI 301 Introduction to Sociological Research 3
SOCI 312 Theories of Society 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

or

Other courses chosen with the approval of the adviser.

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

# This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

† 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.
SOCIOLGY • COLLEGE OF ARTS AND SCIENCE

SOCI 210 Population Problems ........................................... 3
Four Sociology courses .................................................. 12
No more than 12 credits at the 200 level. At least 6 credits must
be at the 400 level or higher
SOCI 402 Urban Studies Practicum and Seminar ..................... 4
This course is required but does not count as part of the thirty
Sociology credits for the major.

Within the College
Eleven additional credits of related work are required and may
include the following:
POSC 355 Urban Politics .................................................. 3
GEOG 325 Urban Geography ............................................ 3
POSC 355 Urban Politics ................................................... 3
HIST 459 U.S. Urban History ............................................ 3
POSC 452 Problems in Urban Politics .................................. 3
ECON 393 Urban Economics ............................................. 3
ARTH 324 Modern Architecture ........................................ 3
CRJU 455 The Ecology of Crime ........................................ 3
or
Other courses chosen with the approval of the adviser.

ELECTIVES
Electives
After required 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*

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing .................................. 3
Three credits in an approved course or courses stressing
multicultural, ethnic, and/or gender-related content. #

COLLEGE REQUIREMENTS

Skill Requirements
Writing ................................................................. 3
A 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 in a stu-
dent's junior or senior year. Appropriate writing courses are
normally designated in the semester's Registration Booklet

Foreign Language ........................................................ 0
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 require-
mint in that language by taking an exemption examination.

Mathematics:
MATH 114 or MATH 170 Elementary Mathematics and Statistics . 3
(designed for students who do not intend to continue the study of
mathematics)

MATH 115 or MATH 171 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

Successful performance on the college proficiency exam.

Breadth Requirements† (See page 80)

Group A ................................................................. 12
Understanding and appreciation of the creative arts and
humanities. Twelve credits representing at least two areas.

Group B ................................................................. 12
The study of culture and institutions over time. Twelve credits
representing at least two areas.

Group C ................................................................. 12
Empirically based study of human beings and their environ-
ment. Twelve credits representing at least two areas.

Group D ................................................................. 13
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 associat-
ed laboratory.

MAJOR REQUIREMENTS

Within the Department
SOCI 201 Introduction to Sociology .................................... 3
SOCI 301 Introduction of Sociological Research ..................... 3
SOCI 312 Theories of Society ............................................. 3
SOCI 310 Sociology of Health Care .................................... 3
SOCI 311 Hospitals ....................................................... 3
And five additional Sociology courses .................................. 15
(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.

SOCI 410 Health Services Practicum and Seminar ..................... 4
This course is required but does not count as part of the thirty
Sociology credits for the major.

Within the College

Related Work
Eleven additional credits of related work are required and .......................... 11
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.

ELECTIVES

Electives
After required 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., freshman year, sophomore year, etc.
#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
†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: SOCIOLOGY
CONCENTRATION: LAW AND SOCIETY

CURRICULUM

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS

Skill Requirements
Writing 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language:
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 or MATH 170 Elementary Mathematics and Statistics 3
(designated for students who do not intend to continue the study of mathematics)

or

MATH 115 or MATH 171 Pre-Calculus 3
(designated 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 80)

Group A 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D 13
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

SOCI 201 Introduction to Sociology 3
SOCI 301 Introduction of Sociological Research 3
SOCI 312 Theories of Society 3

SOCI 345 Sociology of Law 3
SOCI 456 Lawyers and Society 3

Any five other courses in Sociology 15

Suggested courses for the study of family/gender include:

SOCI 202 Social Deviance 3
SOCI 353 Computers, Ethics and Society 3
SOCI 428 Corporate Crime 3
SOCI 450 Political Sociology 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 may be counted toward the major. At least 6 credits must be at the 400 level or higher.

SOCI 495 Law and Society Practicum and Seminar 4

This course is required but does not count as part of the thirty Sociology credits for the major.

Within the College

Related Work
Twelve credits from the following courses are recommended: 12

CRJU 320 Introduction to Criminal Law 3
CRJU 347 The Jury 3
CRJU 357 Seminar in the Police 3
CRJU 425 Criminal Law and Social Policy 3
CRJU 457 Contemporary Debates 3
POSC 402 Civil Liberties I 3
POSC 406 Civil Liberties II 3
POSC 404 The Judicial Process 3
POSC 405 Constitutional Law 3
PHIL 201 Introduction to Political and Legal Philosophy 3
PHIL 446 Philosophy of Law 3
HIST 301 The Worker in American Life 3
HIST 309 American Business, Government and Society 3

A second writing course in any department 3

A course in oral communication is suggested 3

ELECTIVES

Electives
After required 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

UNIVERSITY REQUIREMENTS
ENGL 110 Critical Reading and Writing 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

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.
COLLEGE REQUIREMENTS

Skill Requirements

Writing: A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 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 or MATH 170 Elementary Mathematics and Statistics 3 (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 One of the following: MATH 221 Calculus I 3 or MATH 241 Analytic Geometry and Calculus A 4 or Successful performance on the college proficiency exam.

Breadth Requirements (See page 80)

Group A

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

Group B

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

Group C

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

Group D

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

SOCI 201 Introduction to Sociology 3
SOCI 301 Introduction of Sociological Research 3
SOCI 312 Theories of Society 3
SOCI 401 Advanced Sociological Methods 3
SOCI 411 Techniques of Demographic Analysis 3
SOCI 414 Data Analysis 3

Any five other courses in Sociology 15

No more than 12 credits at the 200 level may be counted toward the major. At least 6 credits must be at the 400 level or higher.

SOCI 412 Practicum 4

This course is required but does not count as part of the thirty-three Sociology credits for the major.

Within the College

Related Work

STAT 201 Introduction to Statistics I** 3
STAT 202 Introduction to Statistics II** 3

Nine additional credits chosen from the following:

CISC 100 Introduction to Digital Computer Programming 3
GEOG 250 Computer Methods in Geography 3
GEOG 470 Computer Cartography 3
HIST 268 Seminar: Nature and Verification of Historical Evidence 3
PHIL 320 Experience, Knowledge, Reality 3
PHIL 444 Ethical Issues in Scientific Research 3
ECON 422 Introduction to Econometrics 3
STAT 418 Sampling Methods 3
STAT 420 Data Analysis and Nonparametric Statistics 3

ELECTIVES

Electives

After required 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

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing 3

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content. #

CREDITS

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 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 or MATH 170 Elementary Mathematics and Statistics 3 (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 One of the following: MATH 221 Calculus I 3

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements See page 26.

† 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.

**Required.
MATH 241 Analytic Geometry and Calculus A .......................... 4
or
Successful performance on the college proficiency exam.

Breadth Requirements† (See page 80)

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

Group B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

Group D
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

SOCI 201 Introduction to Sociology .................. 3 1/4
SOCI 301 Introduction to 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.

Within the College

Twenty-four credits in the following social sciences with at least three credits in each department

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 and 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
HIST 493 Seminar: Problems in Teaching History and Social Sciences

EDDV 400 Student Teaching ............................. 9 1/4

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 within the Department of Sociology and Criminal Justice 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 reflects the structure, ideas, and concerns of the society in which it operates, the Criminal Justice Program draws from a wide variety of academic disciplines including sociology, psychology, political science, and law.

At the University of Delaware, a degree in criminal justice is viewed as a general liberal arts degree. The curriculum, therefore, emphasizes the importance of repre-
sentative 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.

An integral component of the Criminal Justice curriculum is the field experience, a directed practicum with a criminal justice agency. In the field experience, students are provided with the opportunity to work on a firsthand basis in actual agency situations. Each field experience also includes a weekly seminar directed by a faculty member and designed to help students integrate the field experience with their classroom learning. Students are encouraged to discuss with the faculty how the field experience program might be adapted to fit their individual needs and contribute to their career goals.

**DEGREE: BACHELOR OF ARTS**
**MAJOR: CRIMINAL JUSTICE**

**CURRICULUM**

**UNIVERSITY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110 Critical Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td>Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**COLLEGE REQUIREMENTS**

**Skill Requirements**

**Writing**

A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

**Foreign Language**

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 examination examination.

**Mathematics**

MATH 114 or MATH 170 Elementary Mathematics and Statistics

(designated for students who do not intend to continue the study of mathematics)

or

MATH 115 or MATH 171 Pre-Calculus

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

or

Any mathematics course (MATH) at or above the 200 level except MATH 251 and MATH 252 (Math for Elementary School I and II)

Successful performance on the college proficiency exam.

**Breadth Requirements**

*See page 80*

**Group A**

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

**MAJOR REQUIREMENTS**

**Within the Department**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 110 Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 201 Problems of Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 202 Problems of Criminal Judiciary</td>
<td>3</td>
</tr>
<tr>
<td>CRJU 203 Problems of Corrections</td>
<td>3</td>
</tr>
</tbody>
</table>

Criminal Justice courses at the 300 or 400 level...

**Within the College**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 201 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 301 Introduction to Sociological Research</td>
<td>3 2-4</td>
</tr>
<tr>
<td>POSC 105 American Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201 General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 301 Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 303 Introduction to Social Psychology</td>
<td>3 2-4</td>
</tr>
<tr>
<td>PSYC 325 Child Psychology</td>
<td>3 2-4</td>
</tr>
<tr>
<td>PSYC 334 Abnormal Psychology</td>
<td>3 2-4</td>
</tr>
</tbody>
</table>

One of the following three courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 402 Civil Liberties I</td>
<td>3 3-4</td>
</tr>
<tr>
<td>POSC 405 Constitutional Law of the United States</td>
<td>3 3-4</td>
</tr>
<tr>
<td>POSC 406 Civil Liberties II</td>
<td>3 3-4</td>
</tr>
</tbody>
</table>

**ELECTIVES**

Electives

After required 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. The PTTP is an important resource to the academic community not unlike the library in its contribution to campus life. 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, or the Bacchus Theatre Players.

DEGREE: BACHELOR OF ARTS
MAJOR: THEATRE PRODUCTION

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language 0-12
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 2
(designed for students who do not intend to continue the study of mathematics)

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

Successful performance on the college proficiency exam.

Breadth Requirements† (See page 80)

Group A 12
Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B 12
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C 12
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D 13
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

THEA 102 Introduction to Performance 3
THEA 104 Introduction to Theatre 3
THEA 200 Introduction to Theatre Production 3
THEA 202 Introduction to Theatre Design 3
THEA 203 Introduction to Costuming for the Stage 3
THEA 310 Theatre Practicum for Majors 4

Twelve credits from the following:

(select three 4 credit courses with 0 credit LAB each)

THEA 300 Fundamentals of Scenery Construction 4
THEA 301 Fundamentals of Property Construction 4
THEA 302 Fundamentals of Stage Lighting 4
THEA 303 Fundamentals of Scene Painting 4
THEA 304 Fundamentals of Audio for the Theatre 4
THEA 305 Fundamentals of Costume Construction for the Stage 4
THEA 306 Fundamentals of Patternmaking for the Stage 4
THEA 307 Fundamentals of Draping for the Stage 4
THEA 308 Fundamentals of Costume Crafts 4
THEA 309 Fundamentals of Stage Management 4

Within the College

Six credits from the following:

ENGL 208 Introduction to Drama 3
ENGL 324 Shakespeare 3

or

Other courses as approved by adviser.

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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.
SCHOOL OF LIFE AND HEALTH SCIENCES • COLLEGE OF ARTS AND SCIENCE

ELECTIVES

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

MINOR

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

ELECTIVES 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.

SCHOOL OF LIFE AND HEALTH SCIENCES

The life and health sciences express the unity of the living world and the individual’s place in it. The life sciences are advancing rapidly with profound implications for future society in such areas as recombinant DNA technology, immunology and genetics. Medical technology and physical therapy represent the application of basic biological principles to the prevention and treatment of human disease and malfunction.

The curriculum of the school aims to make today’s developing concepts in the life and health sciences accessible to students and to create an environment in which faculty and students can make significant original contributions to these understandings.

Each undergraduate program in life sciences is 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. Many interests call for graduate study or specialized professional training beyond four years of college work; these include human and veterinary medicine, dentistry, biology and medical research, genetics, marine biology and oceanography, physiology, and molecular biology. Undergraduate programs in life sciences aim to provide broad scope and some necessary specialization appropriate to further study.

Preprofessional students (medicine, physical therapy, dentistry, osteopathy, etc.) generally enroll as majors in the biological sciences. Special advisement for these students is available and encouraged.

In addition to a B.A. degree with a major in biological sciences or biological sciences education, a B.S. degree with a concentration in biotechnology is available. Students may also pursue a nationally accredited B.S. degree program in medical technology. All programs are designed to prepare graduates for professional certification or licensure and to provide a basis for graduate study in these or related fields.

Biology

Courses at the 100 level are designed to serve students who do not choose to major in biological sciences. Most of these courses may be used to satisfy the Group D requirements of the College of Arts and Science.

The School of Life and Health Sciences offers both a major and a minor in biology. The requirements for these programs are as follows:

The following sequence of courses is recommended for the biological sciences major as well as premedical, prephysical therapy, pre dental, and preveterinary students. Most of these preprofessional students choose this major because of their interest in the life sciences.

DEGREE: BACHELOR OF ARTS

MAJOR: BIOLOGICAL SCIENCES

CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: 3

A 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 in a student’s junior or senior year. Appropriate writing courses are normally designated in the semester’s Registration Booklet.

Foreign Language: 0-12

Completion of an 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.

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 25.
BIOTECHNOLOGY

The Bachelor of Science degree in Biological Sciences with a concentration in biotechnology is a four-year program offered by the School of Life and Health Sciences. The program emphasizes laboratory courses/expperiences 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.

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 grade-point index (GPI) of 2.5 is required.

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 careful planning is strongly suggested.

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

UNIVERSITY REQUIREMENTS
ENGL 110  Critical Reading and Writing 3
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content 3 - 4

COLLEGE REQUIREMENTS
Skill Requirements
Writing: 5 - 3
A writing course involving significant writing experience including two papers with a combined minimum of 5,000 words to be submitted for extended faculty critique of both
composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 0-12

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 examination examination.

Mathematics:
MATH 114 Elementary Mathematics and Statistics 3
(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 80)

A total of twenty-one credits from Groups A, B, and C 21

is required with six credits in each group. The six credits from each group could be from the same department.

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

Introductory Courses:
BISC 207 Introductory Biology I 4
BISC 208 Introductory Biology II 4
BISC 291 Introductory Biology III 4
BISC 301 Molecular Biology of the Cell 4
BISC 303 Genetic and Evolutionary Biology 4
BISC 305 Cell Biology 4
BISC 311 Human Genetics 4
BISC 321 Virology 4
BISC 322 Organic Chemistry 4
BISC 326 Organic Chemistry Laboratory 4
BISC 327 Biochemistry 4
BISC 328 Biochemistry Laboratory 4
BISC 329 Introduction to Virology 4

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

I
BISC 492 Human and Mammalian Cyto genetics 3
BISC 493 Mammalian Cyto genetics Laboratory 3

II
BISC 471/BISC 671 Immunobiology 3
BISC 601 Immunobiology 3

III
BISC 667 Informational Macromolecules Laboratory 4

Two courses selected from the following:
BISC 467/BISC 667 Computer Applications in Biology 4
BISC 602 Molecular Biology of Animal Cells 3
BISC 608 Genetic Toxicology 3

BISC 617 Laboratory Techniques for Electron Microscopy 3
BISC 654 Biochemical Genetics 3
BISC 658 Developmental Genetics 3
BISC 667 Plant Cell Biology 3
BISC 650 Bacterial Physiology 3
BISC 673 Topics in Immunogenetics 3
BISC 679 Virology 3
BISC 693 Human Genetics 3
BISC 667 Gene Control: Antibody Genes, HIV 3

Within the College
CHEM 103 General Chemistry 4
CHEM 104 General Chemistry 4
CHEM 321 Organic Chemistry 4
CHEM 322 Organic Chemistry 4
CHEM 325 Organic Chemistry Laboratory 4
CHEM 326 Organic Chemistry Laboratory 4
CHEM 327 Introductory Biochemistry 3
CHEM 641 and CHEM 642 Biochemistry 6
PHYS 201 General Physics 4
PHYS 202 General Physics 4
MATH 221 Calculus I 3

ELECTIVES

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

CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing 5
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content #

COLLEGE REQUIREMENTS

Skill Requirements
Writing: 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: 0-12

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 examination examination.

Mathematics:
MATH 114 Elementary Mathematics and Statistics 3
(designed for students who do not intend to continue the study of mathematics)

or

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

†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 must be obtained in all biology courses that are used to satisfy the requirements for the degree. Within the school, an Honors degree and Honors courses are available for interested and qualified students. Many opportunities exist for research experience with a faculty member. There are also research opportunities in clinically related areas in conjunction with the Medical Center of Delaware. In addition, an opportunity for teaching experience exists.

During the freshman year, biological science majors for the B.A. degree ordinarily take courses in chemistry, English, foreign language, and mathematics. The minimal mathematics requirement is one semester of calculus.

Recommended electives include further work in computer science, mathematics, and the physical sciences. Students should consider their objectives and abilities and consult their advisers to select wisely from the variety of advanced courses and electives available.

Up to 4 credits of BISC 266, 366, 466, or 666 may be counted toward the 33 credits required for the major. Some 600-level courses in other departments may be counted toward the major.

Students not majoring in biological science 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 courses more appropriate to their professional interests.

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.

**Requirements for a Minor in Biology**

The required courses are BISC 207, 208; two courses from BISC 301, 302 (or 321), 303, 371, 306 (or 406, 416); 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.

Since all of the BISC courses above apply to the major in biological sciences, as well as to the minor, students will retain all of 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.

**Medical Education Program**

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. Procedures for application to this program may be obtained from the office of the associate director of the School of Life and Health Sciences.

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 Planning and Placement Office.

During the first two years at the University, students interested in medical technology should take courses in the basic sciences and liberal arts, including prerequisite courses in biology and chemistry. The professional and clinical courses in the third and fourth year include a final period of supervised clinical education in the Medical Center of Delaware and other affiliated institutions. One required Winter Session is included in the B.S. curriculum.

Freshmen or transfer students may be admitted to the University with a declared interest in medical technology. Students will be evaluated for admission to the Medical Technology Program after completion of the prerequisite courses. Priority will be given to full-time University sophomores.

Class size is limited to 26 medical technology majors, and any interested student should talk with a Program faculty member as early as possible.

Eligibility for admission to the junior year of the Medical Technology Program will be based on the following criteria:

1. Minimal cumulative index; first four semesters 2.0
2. Minimal index computed from specified courses in biological sciences and chemistry, including laboratories: BISC 207, 208, 371, 406-416, and CHEM 103, 104, 213, and 214-216. Grade-point index in these courses 2.0
3. Completion of at least 62 credits, including the courses listed above.
4. Within the pool of eligible students, admission to the major courses will be determined by academic achievement. All applicants will be evaluated by the Medical Technology Admissions Committee.

The following course sequence is recommended. These courses may be subject to change, so it is essential that students meet regularly with their faculty advisers.

Anna P. Ciulla, Director, Associate Professor Office: 049 McKinley Laboratory Telephone: (302) 831-2849

DEGREE: BACHELOR OF SCIENCE
MAJOR: MEDICAL TECHNOLOGY

CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: .................................................................................................................. 3 I
A writing course involving significant writing experience including two papers with a combined minimum of 3,000

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

**Mathematics:**

**MATH 114** Elementary Mathematics and Statistics ........................................ 3
(designated for students who do not intend to continue the study of mathematics)

**MATH 115** Pre-Calculus .................................................................................. 3
(designated 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 80)

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

**Group B** .................................................................................................. 6
The study of culture and institutions over time.

**Group C** .................................................................................................. 6
Empirically based study of human beings and their environment.

**MAJOR REQUIREMENTS Within the Department**

**MEDT 100** Introduction to Medical Technology .............................................. 1

**MEDT 105** Management .............................................................................. 2

**MEDT 106** Diagnostic Parasitology ................................................................. 3

**MEDT 107** Virology and Immunology ............................................................... 3

**MEDT 108** Clinical Laboratory Computer Applications .................................. 2

**MEDT 109** Urinalysis and Body Fluids ............................................................. 3

**MEDT 201** Medical Technology Laboratory .................................................. 1

**MEDT 203** Hematology I Laboratory ............................................................... 1

**MEDT 204** Hematology I ................................................................................ 1

**MEDT 205** Medical Microbiology ................................................................. 3

**MEDT 206** Medical Microbiology Laboratory ................................................. 2

**MEDT 207** Principles of Medical Technology Education ................................ 1

**MEDT 208** Medical Mycology ....................................................................... 1

**MEDT 209** Medical Physiology Laboratory ................................................... 2

**MEDT 210** Clinical Physiology I .................................................................. 4

**MEDT 211** Clinical Physiology I Laboratory ............................................... 2

**MEDT 212** Hematology II Laboratory ............................................................. 1

**MEDT 213** Hematology II .............................................................................. 1

**MEDT 214** Medical Microbiology II ............................................................... 2

**MEDT 215** Medical Microbiology II Laboratory ........................................... 2

**MEDT 216** Medical Physiology II ................................................................ 4

**MEDT 217** Diagnostic Microbiology ............................................................... 2

**MEDT 218** Diagnostic Microbiology Laboratory .......................................... 2

**MEDT 219** Immunohematology ................................................................... 2

**MEDT 220** Immunohematology II ................................................................. 1

**MEDT 221** Immunohematology II Laboratory .............................................. 1

**MEDT 222** Medical Technology Clinical Education ...................................... 3

**MEDT 223** Seminar: Medical Technology Laboratory .................................... 1

**MEDT 575** Clinical Chemistry Practicum ....................................................... 3

**MEDT 576** Clinical Hematology .................................................................... 3

**MEDT 577** Clinical Microbiology .................................................................. 3

**MEDT 578** Clinical Immunohematology ......................................................... 3

Within the College

**Related Work**

**BISC 207** Introductory Biology I ................................................................. 4

**BISC 208** Introductory Biology II ................................................................. 4

**BISC 406** Human Physiology ....................................................................... 3

**BISC 416** Human Anatomy and Physiology Laboratory ................................ 1

**BISC 371** Introduction to Microbiology ......................................................... 3

**BISC 471** Introductory Immunology ............................................................... 3

**CHEM 103** General Chemistry .................................................................... 4

**CHEM 104** General Chemistry .................................................................... 4

**CHEM 213** Elementary Organic Chemistry .................................................. 4

**CHEM 214** Elementary Biochemistry ............................................................. 3

**CHEM 215** Elementary Biochemistry Laboratory ........................................ 1

**CHEM 321** Organic Chemistry .................................................................... 3

**CHEM 322** Organic Chemistry .................................................................... 3

**CHEM 325** Organic Chemistry Laboratory .................................................. 1

**CHEM 326** Organic Chemistry Laboratory .................................................. 1

**ELECTIVES**

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

**CREDITS TO TOTAL A MINIMUM OF** ..................................................... 150

During the clinical rotation period (winter and spring terms of the senior year), students should plan for the possibility of 1) added expense for transportation and uniforms and 2) living off-campus at the clinical site for a five-week rotation when the commuting distance is deemed excessive by program standards (the University subsidizes housing costs in these situations).

A minimal grade of C is required in each MEDT course in the medical technology major.

**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). Students receive academic advice by staff members in the advisement office in the School of Life and Health Sciences. They receive career counseling from faculty in the Physical Therapy Program. Upon graduation, students will have the necessary coursework to allow them to compete for admission to graduate programs throughout the United States, including the University of Delaware.
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

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements

Writing: .................................................................... 3
A 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 in a stu- 
dent's junior or senior year. Appropriate writing courses are 
normally designated in the semester's Registration Booklet.

Foreign Language: .................................................. 0-12*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 require-
ment in that language by taking an exemption examination.

Mathematics:

MATH 114 Elementary Mathematics and Statistics ........ 3
(designed for students who do not intend to continue the study 
of mathematics)

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 80)

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

Group B
The study of culture and institutions over time. Twelve credits 
representing at least two areas.

Group C
Empirically based study of human beings and their environ-
ment. Twelve credits representing at least two areas.

Group D
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 associat-
ed laboratory.

MAJOR REQUIREMENTS

Within the Department

CLMT 202 Biblical and Classical Literature ..................... 3*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*4
CLMT 208 Great Writers of the Western World: 1650-1950 . 3*4
CLMT 484 Literary Criticism ..................................... 3
Comparative Literature courses or courses in related fields 
approved by the adviser.

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.

ELECTIVES

Electives

After required 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., 1freshman year, 2sophomore year, etc.

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 25

†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

COLLEGE OF ARTS AND SCIENCE • INTERNATIONAL RELATIONS

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)

FOREIGN LANGUAGE:

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
   (designated for students who do not intend to continue the study of mathematics)
   or
   MATH 115 Pre-Calculus .................................................................................. 3
   (designated 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 80)

Group A ........................................ 12-14
Funeral and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B ........................................ 12-14
The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C ........................................ 12-14
Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D ........................................ 15-14
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 Departments

Anthropology

Six credits chosen from the following courses: ........................................ 6-14
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 235 The Novel as Ethnography .................................................... 3
ANTH 255 Applied Anthropology .......................................................... 3
ANTH 260 Sociocultural History of Africa ............................................. 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 337 Peoples of the Caribbean ..................................................... 3
ANTH 350 Development and Underdevelopment .................................. 3
ANTH 351 Anthropology in Film ............................................................ 3
ANTH 353 Peoples of Africa ................................................................. 3
ANTH 357 South American Indians ..................................................... 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

*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.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>Women in Cross Cultural Perspective</td>
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<td>ANTH 475</td>
<td>Comparative Political Systems</td>
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<td>ECON 151</td>
<td>Introduction to Microeconomics</td>
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<td>ECON 152</td>
<td>Introduction to Macroeconomics</td>
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<td>ECON 340</td>
<td>International Economic Relations</td>
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<td>ECON 311</td>
<td>Economic Growth and Development Policy</td>
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<td>Environment of Multinational Corporations</td>
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<td>The Planned Economies</td>
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<td>Economics of Growth and Development</td>
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<td>International Monetary Economics</td>
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<td>Western Civilization to 1648</td>
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<td>Western Civilization 1648 to the Present</td>
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<td>History of Africa</td>
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<td>HIST 135</td>
<td>Latin America to 1830</td>
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<td>HIST 136</td>
<td>Latin America Since 1830</td>
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<td>East Asian Civilization: China</td>
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<td>HIST 138</td>
<td>East Asian Civilization: Japan</td>
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<td>HIST 207</td>
<td>The World in Our Time</td>
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<td>History of South Africa</td>
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<td>The Jewish Holocaust: 1883-1945</td>
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<td>Pan Africanism</td>
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<td>The Atomic Age</td>
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<td>Soviet Russia: 1917-1945</td>
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<td>Modern Germany: 1870-1945</td>
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<td>Africa since 1960</td>
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<td>Race, Class, and Revolution in South Africa</td>
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**Economics**

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<td>POSC 313</td>
<td>American Foreign Policy</td>
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<td>POSC 314</td>
<td>Making United States Foreign Policy</td>
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<td>POSC 333</td>
<td>Communism, Fascism and Democracy</td>
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<td>Liberalism and Conservatism</td>
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<td>Model United Nations</td>
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<td>POSC 416</td>
<td>Transnational Relations and World Politics</td>
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<td>POSC 448</td>
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<td>POSC 463</td>
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**History**

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<td>HIST 390</td>
<td>Population and Social Systems</td>
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<td>Political Sociology</td>
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<td>HIST 350</td>
<td>Sociology of Religion</td>
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<td>HIST 361</td>
<td>Race, Power and Social Conflict</td>
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<td>HIST 380</td>
<td>Development and Modernization</td>
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<td>HIST 460</td>
<td>Women in International Development</td>
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**Sociology**

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<td>SOC 305</td>
<td>Personality and Social Systems</td>
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**Other**

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<td>PHIL 202</td>
<td>Contemporary Moral Problems</td>
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<td>PHIL 244</td>
<td>World Religions</td>
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<td>PHIL 309</td>
<td>Indian Religion and Philosophy</td>
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<td>PHIL 310</td>
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<td>COMM 320</td>
<td>Analysis of Intercultural Communication</td>
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<tr>
<td>ARSC 127</td>
<td>Shaping of the Modern World</td>
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**Electives**

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

**Credits to Total a Minimum of** 124
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

UNIVERSITY REQUIREMENTS

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

COLLEGE REQUIREMENTS

Skill Requirements
Writing: 3
A 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 in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language:
Completion of the intermediate-level course (107 or 112) in Spanish. Students with four or more years of high school work in Spanish may attempt to fulfill the requirement by taking the exemption examination.†

Mathematics:
MATH 114 Elementary Mathematics and Statistics 3
(designated for students who do not intend to continue the study of mathematics)

or

MATH 115 Pre-Calculus 3
(designated 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

Successful performance on the college proficiency exam.

Breadth Requirements † (See page 80)

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

GROUP B
The study of culture and institutions over time. Twelve credits representing at least two areas.

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

GROUP D
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 College

Required courses:
ANTH 275 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 133 Latin America to 1830 3
HIST 135 Latin America since 1830 3
POCS 426 Latin American Political Systems 3
SPAN 212 Latin American Civilization and Culture 3
SPAN 303 Survey of Latin American Literature I 3
or

SPAN 304 Survey of Latin 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 Latin America
HIST 334 History of Mexico
HIST 430 Latin American Revolution
HIST 477 Studies in Latin American History

One of the following two courses: 3

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

One of the following four courses: 3

SPAN 203 Spanish Reading and Composition
SPAN 412 Latin American Literature in its Political Context
SPAN 430 Latin American Novel and Cinema
SPAN 443 Mexican Literature

Suggested Course:
ECON 311 Economic Growth and Development 3
(Prerequisites: ECON 151, ECON 152)

ELECTIVES

Electives

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

Study Abroad

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

CREDITS TO TOTAL A MINIMUM OF 124

† 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.

‡ Completion of PORT 107 is also highly recommended.

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

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.

*See page 26 for complete list of courses.
MINORS IN AREA STUDIES

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.

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, 136, 334, 430, 477
- GEOG 226
- SPAN 212, 303, 304, 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

THE CENTER FOR SCIENCE AND CULTURE

The Center for Science and Culture is an interdisciplinary teaching and research unit of the College of Arts and Science.

Ideas and methods of the humanities, the sciences, and social sciences are employed to study the social, philosophical, historical and cultural significance of science and technology.
The center offers an interdisciplinary instructional program in the social, cultural, and humanistic aspects of the sciences and their applications. Open to the entire student body, the center curriculum is primarily team-taught by faculty representing a wide range of the humanities, the social sciences, and the sciences. Courses provide a unique vehicle to inform students in various sciences about the social and cultural dimensions of their fields. This effort also instructs students of the humanities and social sciences concerning the nature and significance of the scientific professions. Group credit in the humanities and social sciences is available for most Center courses.

Two academic minors are offered. 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. The minor in Science, Technology, and Society is a program of study in the various ways that science and technology interact with and impact modern society.

The Center is also the academic home of the Medical Scholars Program. This innovative program is a cooperative venture between the University of Delaware and Jefferson Medical College. The program is designed to combine undergraduate pre-medical education with professional medical school and post-graduate medical training.

Seminars and lectures are also sponsored in areas of current interest in the fields represented by its faculty. The Center promotes advanced research on the interrelations of science, technology, and culture by University faculty. The center disseminates research information and results through its publication series.

Further information may be obtained from the office of the director of the Center for Science and Culture.

**TECHNOLOGY OF ARTISTIC AND HISTORIC OBJECTS**

Art and historic objects are made of materials 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, he or she must combine the skills of the artist, the art historian, and the chemist. The purpose of this interdisciplinary Bachelor of Arts degree program in the Technology of Artistic and Historic Objects is to prepare students who wish to pursue graduate training in art conservation for such advanced preprofessional study. Working closely with the program coordinator, the student elects a program of coordinated courses in art history, chemistry, and studio art. Since the University of Delaware is one of a very few universities in this country with a graduate program in art conservation, 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 or other nearby conservators.

**DEGREE: BACHELOR OF ARTS**

**MAJOR: TECHNOLOGY OF ARTISTIC AND HISTORIC OBJECTS**

**CURRICULUM**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNIVERSITY REQUIREMENTS</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 110 Critical Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td>Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content</td>
<td>3—14</td>
</tr>
<tr>
<td><strong>COLLEGE REQUIREMENTS</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Skill Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Writing</td>
<td>3—4</td>
</tr>
<tr>
<td>A writing course involving significant writing experience including two papers with a combined minimum of 6000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>0—19</td>
</tr>
<tr>
<td>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.</td>
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</tr>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)</td>
<td>3</td>
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<tr>
<td>or One of the following:</td>
<td></td>
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<tr>
<td>MATH 221 Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241 Analytic Geometry and Calculus A</td>
<td>4</td>
</tr>
<tr>
<td>or Successful performance on the college proficiency exam.</td>
<td></td>
</tr>
<tr>
<td><strong>Breadth Requirements</strong> (See page 80)</td>
<td></td>
</tr>
<tr>
<td>Group A</td>
<td>12—14</td>
</tr>
<tr>
<td>Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.</td>
<td></td>
</tr>
<tr>
<td>Group B</td>
<td>12—14</td>
</tr>
<tr>
<td>The study of culture and institutions over time. Twelve credits representing at least two areas.</td>
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<tr>
<td>Group C</td>
<td>12—14</td>
</tr>
<tr>
<td>Empirically based study of human beings and their environment. Twelve credits representing at least two areas.</td>
<td></td>
</tr>
</tbody>
</table>

* Superior figures indicate year or years in which the course is normally taken, i.e., 1st freshman year, 2nd sophomore year, etc.
# This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 26.
† 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.
Group D
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 College

Art and Art Conservation:
ART 244 Photography I .................................................................................. 3 1/4
One of the following four courses:
ART 250 Sculpture I .................................................................................. 3 1/4
ART 254 Ceramics I .................................................................................. 3 1/4
ART 260 Metals I ..................................................................................... 3 1/4
ART 273 On Loom Weaving I ..................................................................... 3 1/4
ARTC 685 Color Mixing and Matching .......................................................... 3 1/4
ARTC 682 Studio Materials and Techniques of Drawing in the West .......... 3
ARTC 688 Studio Materials and Techniques of Painting I .............................. 3 or
ARTC 689 Studio Materials and Techniques of Painting II .......................... 3 1/4
ARTC 690 Studio in the Materials and Techniques of Printmaking I .......... 3 1/4
ARTC 466 Conservation Internship at Winterthur ........................................ 6

Art History
Twenty-four credits in Art History as follows: ............................................. 24 1/4
ARTH 208 Greek and Roman Art .................................................................. 3 or
ARTH 207 Origins of Art ............................................................................ 3
ARTH 210 Art of the Middle Ages ................................................................ 3
ARTH 212 High Renaissance and Mannerist Art ......................................... 3 or
ARTH 211 Early Renaissance Art ................................................................. 3
ARTH 214 Baroque Art ............................................................................ 3 or
ARTH 216 American Art ........................................................................... 3 or
ARTH 380 Oriental Art ............................................................................ 3
ARTH 315 Modern Art I: Nineteenth Century ............................................ 3
ARTH 316 Modern Art: Twentieth Century ................................................ 3
ARTH 401 Literature, Theory and Methods of Art History .......................... 3

Chemistry
Twenty to twenty-three credits in Chemistry as follows: ......................... 20-23 1/4
CHEM 103 General Chemistry ................................................................. 4 or
CHEM 104 General Chemistry ................................................................. 4 or
CHEM 111 General Chemistry ................................................................. 3
CHEM 112 General Chemistry ................................................................. 3 or
CHEM 119 Quantitative Chemistry I ......................................................... 2
CHEM 120 Quantitative Chemistry II ....................................................... 3
CHEM 220 Quantitative Analysis .............................................................. 3
CHEM 221 Quantitative Analysis Laboratory ........................................... 1
CHEM 321 Organic Chemistry ................................................................. 3
CHEM 325 Organic Chemistry Laboratory ............................................... 1
CHEM 322 Organic Chemistry ................................................................. 3
CHEM 326 Organic Chemistry Laboratory ............................................... 1

ELECTIVES

Electives
After required 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

WOMEN'S STUDIES

This program is designed to foster in students a knowledge of the rich heritage, challenges, and problems of women. In addition to being a unique field with its own philosophy, methodology, and materials, Women's Studies provides the impetus toward reexamining each of the traditional scholarly disciplines to identify and correct misinformation and unexamined assumptions about “women's place” in human history. In so doing, men's lives have also been looked at in new and more humanistic ways, thus enhancing an awareness of the interplay of gender, race, and class.

The Women's Studies program offers several introductory core courses, upper-division courses in a variety of disciplines, seminars, and colloquia. There is also an internship that gives students the chance to integrate what they have learned in the Women's Studies classroom with the practical competencies that can only be gained from actual experience in work settings. Both the courses and internship explain and expand exciting areas of scholarship and knowledge that have largely been excluded from the traditional disciplines.

The program offers both a minor and, through the Liberal Studies degree program, an individually designed major. For B.A.L.S.-Women's Studies major requirements, students should see the B.A.L.S. requirements and make an appointment with the director of Women's Studies to discuss the Women's Studies content within these requirements. Both the major and the minor can benefit students by helping to clarify personal and career goals; preparing them for specific careers that require expertise in women's roles and needs; and providing valuable intellectual training.

REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES

A minimum of 18 credit hours is required, which must include the following: WOMS 201, at least one course satisfying the A&S General Education Group A or B requirement, no more than two experimental courses (x67), and an additional 6 credits in WOMS courses at or above the 300 level. A minimum grade of C is required in each course.

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.
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

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 380</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Law (offered in 1991-92)</td>
<td></td>
</tr>
<tr>
<td>LEST 301</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Legal Studies (offered in 1992-93)</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Accounting</td>
<td></td>
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<tr>
<td>ACCT 350</td>
<td>3</td>
</tr>
<tr>
<td>Business Law</td>
<td></td>
</tr>
<tr>
<td>ACCT 351</td>
<td>3</td>
</tr>
<tr>
<td>Business Law</td>
<td></td>
</tr>
<tr>
<td>ACCT 352</td>
<td>3</td>
</tr>
<tr>
<td>Law and Social Issues in Business</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td>COMM 365</td>
<td>3</td>
</tr>
<tr>
<td>Legal Issues of the Mass Media</td>
<td></td>
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</tbody>
</table>

**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 426 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 Public Choice (same as POSC 306)   3
- ECON 360 Government and Business   3
- ECON 408 Economics of Law   3
- ECON 461 Industrial Organization and Antitrust   3
- ECON 463 Economics of Regulation   3

**History**
- HIST 309 Business, Government and Society   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 Public Choice (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 423 Congress and Public Policy   3
- POSC 413-40 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
- LEST 401 Senior Seminar (offered 1992-93)   3

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*A course that is usually filled by majors or by students fulfilling major requirements.*

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