

Majors, Minors, and Certificate Programs

This section outlines the specific requirements for every program in the College of Arts and Sciences: traditional majors, special curricula, minors, and certificate programs, so that you can investigate the full range of majors and degree options available in the college.

Special curricula are four-year degree programs structured to help you prepare for a specific application of your undergraduate program to a selected educational or career objective. To be recognized as having completed a special curriculum and to meet graduation requirements, you must complete the entire curriculum as listed, plus additional courses as necessary to reach a total of 192 hours and meet both University General Education Requirements and the Arts and Sciences degree requirements. Should you elect not to fulfill the special curriculum, you must complete all requirements for another major to graduate.

Majors are arranged alphabetically by department and are listed by complete name (e.g., Forensic Chemistry).

African American Studies

African American Studies Major (B.A.)

Major code BA4903

Students completing the major program receive a Bachelor of Arts degree with a major in African American studies. Courses include communications, education, political science, psychology, social sciences, art, literature, and music as they reflect and provide insight into the African American experience.

Students can also work in close collaboration with their advisors in developing other focal areas in a range of fields including: Health and Human Services, Business Administration, African Studies, Latin American Studies, Environmental Studies, Social Work, Rural Sociology, Broadcasting, Journalism, and Multimedia Studies.

The minimum grade-point average for graduation is a 2.0 (C) in all courses attempted. A grade of C is also required in each major course.

Advising is an essential element in the African American Studies Program. Each student works closely with a faculty member whose expertise and interests are related to the student's academic pursuits.

The requirements for a major consist of 56-quarter hours, including:

AAS 101	African Amer. History I	4
or AAS 202	African Amer. History II	4
AAS 106	Intro to Afr. Amer. Studies	4
One course from		
AAS 110	Intro to African Amer. Lit.	4
AAS 150	Intro to Black Media	5
AAS 180	Intro to Afr. Amer. Educ.	4

Within the 56 hours, at least 28 must be in one of two focal areas—either social sciences or arts and humanities. The focal area must include at least one course from four of the groups below and at least 16 hours at or above the 300 level.

Social Sciences Groups

History

AAS 225	Hist. of the Black Worker	4
AAS 235	Comp. Neocolonialism	4

AAS 254	History of Injustice in U.S.	5
AAS 340	The Black Community in Post-WWII	4
AAS 364	Comp. Study of Injustice	4

Sociology/Psychology

AAS 341	African Amer. Personality	4
AAS 345	The Black Woman	4
AAS 346	Black Masculinities	4
AAS 440	The Black Child	5
AAS 482	The Black Family	4

Political Science

AAS 360	Black Politics in U.S.	4
AAS 368	Black Political Thought	4
AAS 370	Urban Violence	4
AAS 430	Social Theories of Underdevelopment	4

Economics

AAS 432	Third World Natl. Mvts.	4
AAS 460	Social Processes: Third World Urbanization	4

Education

AAS 380	Seminar in African American Education	4
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Arts and Humanities Groups

Literature (African American)

AAS 210	African Amer. Lit. I	4
AAS 211	African Amer. Lit. II	4
AAS 310	Contemporary African American Literature	4
AAS 311	African American Lit.: Special topics	4
AAS 411	Literature Seminar	4

Literature (Intercultural)

AAS 315	Literature of West Africa	4
AAS 316	Literature of South Africa	4
AAS 317	Caribbean Literature	4

Arts

AAS 250	Found. of African Amer. Arts and Culture	4
AAS 350	African American Arts and Artists	4

Music

AAS 355	History of African Amer. Music I: Slavery to 1926	4
AAS 356	History of African American Music II: 1926–Present	4
AAS 357	Black Music Seminar I	3

Media

AAS 352	Blacks in Contemporary Cinema	4
AAS 353	Survey of Black Independent Cinema	4

African American Studies Minor

Minor code OR4903

The minor in African American Studies is available to all undergraduate students regardless of major. The requirements consist of a minimum of 28 hours of coursework in one of two options: the minor concentration or the interdisciplinary minor. The minor concentration in either the social sciences or the arts and humanities consists of a minimum of 28 hours, including at least 20 hours in the chosen area, AAS 101 African American History I or AAS 202 African American History II, and AAS 106 Introduction to African American Studies.

The interdisciplinary concentration requires at least one course from each of the two focal areas, at least two additional courses at the junior or senior level, AAS 101 African American History I or AAS 202 African American History II, and AAS 106 Introduction to African American Studies.

African Studies

See International Studies.

Anthropology

Anthropology Major (B.A.)

Major code BA4252

Anthropology may be defined broadly as the scientific study of humankind. This discipline has two major foci: humans as biological organisms and as cultural beings. This department concentrates on three of Anthropology's subfields: biological anthropology, cultural anthropology, and archaeology. Anthropology is a holistic, comparative, and functional discipline that provides a broad framework through which human activities, adaptations, and changes may be meaningfully interpreted in time and in space. Much of anthropology deals with non-Western cultures.

If you are interested in becoming a professional anthropologist, you can prepare for graduate school in the Department of Sociology and Anthropology. The anthropology major offers training in the methods and results of cultural anthropology, biological anthropology, and anthropological archaeology.

The B.A. in anthropology requires at least 55 hours of anthropology, including:

ANTH 101	Intro to Cultural Anth.	5
ANTH 201	Intro to Biological Anth.	5
ANTH 202	Intro to World Archaeology	5

4 hours of cultural anthropology selected from

ANTH 345	Gender in Cross-Cultural Perspective	4
ANTH 348	Education: Cross-Cultural Perspectives	4
ANTH 349	Life History	4
ANTH 350	Economic Anthropology	4
ANTH 351	Political Anthropology	4
ANTH 357	Anthropology of Religion	4
ANTH 366	Cultures of the Americas	4
ANTH 371	Ethnology	4
ANTH 372	Cultures of the World	4
ANTH 373*	Perspectives in Anthropology	4
ANTH 375	Culture and Personality	4
ANTH 376	Culture Contact and Change	4
ANTH 377	Peasant Communities	4
ANTH 381	Cultures of Sub-Saharan Africa	4
ANTH 383	Cultures of Latin America	4
ANTH 385	Cultures of Southeast Asia	4
ANTH 386	Problems in Southeast Asian Anthropology	4
ANTH 387	Pacific Island Cultures	4
ANTH 455*	Seminar in Methodology and Field Research	4
ANTH 460	Kinship	4
ANTH 472	History of Anthropological Thought	4
ANTH 494A	Seminar in Cultural Anthropology	4
ANTH 494D*	Seminar in Human Ecology	4
ANTH 499*	Anth. Internship	1-4

4 hours of biological anthropology selected from

ANTH 346	Intro. to Human Osteology	4
ANTH 355	Medical Anthropology	4
ANTH 373*	Perspectives in Anth.	4
ANTH 391	Primate Social Org.	4
ANTH 447	Forensic Anth.	4
ANTH 448	Blood, Bones, and Violence	4
ANTH 492	Human Evolution	4
ANTH 494B	Seminar in Biological Anthropology	4
ANTH 496	Human Diversity	4
ANTH 499*	Anth. Internship	1-4

4 hours of archaeological anthropology from

ANTH 361	North American Prehistory	4
ANTH 363	Gender in Prehistory	4
ANTH 364	Near East Prehistory	4
ANTH 367	South American Prehistory	4
ANTH 370	Mexican/Central American Prehistory	4
ANTH 373*	Perspectives in Anth.	4
ANTH 378	Human Ecology	4
ANTH 452	Anthropological Archeology	4
ANTH 455*	Seminar in Methodology and Field Research	4
ANTH 465	Field School in Ohio Archeology	5-10
ANTH 494C	Seminar in Archaeological Anthropology	4
ANTH 494D*	Seminar in Human Ecology	4
ANTH 499*	Anth. Internship	1-4

28 additional hours in anthropology, of which 8 hours must be at the 400 level divided between two of the three main areas above

*when topic is appropriate

You are required to select an advisor from the anthropology faculty; your advisor will help you design an individualized course of study. As your interest shifts, you may change advisors. You are encouraged to take courses in fields related to anthropology. Courses in environmental and plant biology, biological sciences, geology, geography, history, linguistics, international studies, mathematics, psychology, and sociology may be recommended for students interested in particular specialties.

Anthropology Minor Minor Code OR4252

A minor in anthropology is available if you wish to add a dimension of non-Western cultures to your education.

Requirements for a minor in anthropology are

ANTH 101	Intro to Cultural Anth.	5
ANTH 201 or ANTH 202	Intro to Biological Anth. Intro to World Archaeology	5 5

(Both ANTH 201 and 202 are recommended.)

and 16 additional hours in anthropology (including 4 hours at 400 level and 4 additional hours at the 300 or 400 level)

Art

See School of Art in the College of Fine Arts section for information about selective admission requirements. To earn the B.A. degree in art from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

Asian Studies

See International Studies or East Asian Studies Certificate Program.

Astronomy

See Physics and Astronomy.

Bacteriology

See Biological Sciences—Microbiology.

Behavior

See Biological Sciences or Psychology.

Biological Sciences

Biology is the study of life and its component parts, from molecules to cells to ecosystems. It encompasses the entire biosphere that is the Earth. The current state of biological knowledge has taken centuries to accumulate, and with modern molecular and other analytical techniques, our understanding of biological processes is growing rapidly. The study of biology encompasses a broad spectrum of careers. These include researchers in the laboratory and field seeking to understand how molecules, cells, organisms, and groups of organisms work; those responsible for the health of all organisms, including humans; those interested in conservation of life and the environment; as well as those who educate others. Each plays a vital role and each needs to have a broad understanding of historical and current biology and modern techniques. The first two years of the biological sciences curriculum provide a solid basis for an understanding of life from the micro to the macro level, as well as in-depth introductions to three unifying topics: cell biology, genetics, and evolution. Specialized curricula at the upper-level include courses designed to prepare students for specific careers, graduate schools, and professional schools. Regardless of the special curricular track chosen, the student will graduate with a solid foundation in biological sciences as well as a thorough preparation for biological careers and advanced education.

The common requirements for the B.S. in biological sciences are as follows:

- **A minimum of 54 quarter hours earned in biological science (BIOS) coursework.** This may require several BIOS electives in addition to the courses listed under each specialized track. Additional courses may include 109 or any BIOS course at the 300 or 400 level (except 392).
- **At least three upper-level 300-400 level courses in biological sciences must have a laboratory component. (L) indicates BIOS laboratory course or a BIOS course with a laboratory component.**

If you plan to attend graduate school, it is strongly recommended that you take BIOS 493 or BIOS 494H (Undergraduate Research) in your junior and/or senior year. See the biological sciences Web page for opportunities in undergraduate research.

Consult your DARS and your academic advisor when choosing courses to fulfill University and College requirements.

Unless otherwise indicated, BIOS departmental courses may be retaken only once.

The following is a list of core science requirements for biological sciences students in the first two years, regardless of specialization (Major code). Exceptions and additional

courses are listed under each major code, but the list below is common for most students pursuing a degree in biology.

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
CHEM 151, 152, 153	Fundamentals Chem	15
CHEM 301, 302, or 305-307	Organic Chemistry	6 or 9
PSY 221	Statistics	5
MATH 266A, 266B	Calculus w/ App. Biology	8
PHYS 201-203 or 251-253	Physics	15

Junior and senior-level course requirements are determined by area of specialization.

Biological Sciences Minor Minor code OR2121

Requirements for the minor in biological sciences consist of a minimum of 27 BIOS credit hours, including

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
At least one of the following:		
BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4

Additional graded BIOS coursework at 300 level or above.

Students must have a minimum g.p.a. of 2.0 in BIOS course work taken for the minor.

Honors Program in Biology

Outstanding students who are not part of the Honors Tutorial College may graduate with Departmental Honors. These students may be in any BIOS area of specialization (major code). Departmental Honors requires that a student:

- Graduate with an overall g.p.a. of at least 3.5, *i.e. cum laude*.
- Complete a senior honors research thesis with one of the faculty in the Department (this requires registering for BIOS 494H and 495H).

Graduation with Departmental Honors is a special achievement that offers:

- Special recognition at graduation and on the degree certificate.
- In-depth hands-on research experience in the laboratory of a faculty member.
- Direct and close interaction with a faculty member over the course of an entire year.

Biological Sciences—Biological Sciences Major (B.S.) Major code BS2121

The B.S. degree program in biological sciences is designed for students who seek flexibility and breadth in their program. This track is particularly well suited for students who plan to enter a biological sciences graduate program or professional school. To fulfill the minimum of 54 hours in biology, courses can be chosen to prepare for the student's specific area of interest while fulfilling the biology breadth requirement. This track also fulfills the needs of students interested in specializations in Clinical Laboratory Science/Medical Technology, Exercise Physiology or Neuroscience. See below for more information on these areas.

Freshman

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250,251	Statistics Prob and Statistics	5 or 8
MATH 266A, 266B	Calculus w/App Biology	8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
CHEM 301, 302 or 305, 306, 307	Organic Chemistry	6 or 9
PHYS 201, 202, 203 or 251, 252, 253	Physics	15

Some graduate or professional programs may require organic chemistry labs CHEM 303, 304.

Junior/Senior

At least one course must be taken from three of the five areas below:

1. Molecular, Cellular, and Developmental Biology

BIOS 322(L)	Animal Cell Biology Lab	2
BIOS 326(L)	Laboratory Genetics	3
BIOS 407	Developmental Biology	4
BIOS 414	Molecular Cellular Neurosci	4
BIOS 426	Molecular Genetics	3
BIOS 427	Mechanisms Gene Regulation	3
BIOS 463 or CHEM 490, 491	Cell Chemistry General Biochemistry I, II	4 or 7

2. Physiology and Body Systems

BIOS 342 and 354(L)	Prin Physiology I, Lab	5
BIOS 345 and 346(L)	Human Physiology, Lab	7

3. Form and Function

BIOS 300(L)	Anatomy and Histology	6
BIOS 301(L)	Human Anatomy	6
BIOS 303(L)	Comp. Vertebrate Anatomy	6
BIOS 430(L)	Invertebrate Biol	6
BIOS 436(L)	Field Entomology	3

4. Evolution, Ecology, and Behavior

BIOS 333	Neural Basis of Behavior	3
BIOS 375	Animal Ecology	4
BIOS 376(L)	Field Ecology	4
BIOS 429(L)	Marine Biology	5
BIOS 431(L)	Aquatic Biology	5
BIOS 457	Animal Systematics	4
BIOS 473	Animal Behavior	5
BIOS 475	Sociobiology	3
BIOS 479	Evolution	4
BIOS 481	Animal Conservation Biol	4

5. Plants and Microbes

BIOS 321(L)	General Microbiology	5
PBIO 211	Diversity of Life	5

Additional BIOS electives will be needed to fulfill the following requirements:

- 54 credit hours—additional courses may be from the list above or BIOS 109 or any BIOS course at the 300 level or above (except 392)
- 3 BIOS courses with a laboratory component 300 level or above.

A student in the Biological Sciences track also has the option of pursuing one of the following special interests. Contact the pre-professional advisor by the end of sophomore year to be assigned an appropriate faculty advisor.

Clinical Laboratory Science and Medical Technology

Students in any biological sciences major track may choose to enter a Clinical Laboratory Sciences internship provided they

have taken Microbiology (BIOS 321) and Immunology (BIOS 489A,B). The internship year in a licensed clinical facility qualifies a student to take the American Society of Clinical Pathologists registry exam to become a registered medical technologist. The program prepares students for work in hospital, public health, and medical diagnosis laboratories. Students registered at Ohio University may count courses taken during this period towards total credit hours in Biological Sciences.

Exercise Physiology

Students interested in exercise physiology may take courses designed to prepare for graduate studies in exercise or applied physiology. These students should take Human Anatomy (BIOS 301), Human Physiology (BIOS 345,346), and Physiology of Exercise (BIOS 445, 446). Biomechanics (BIOS 352) is also highly recommended.

Neuroscience

Students who are interested in graduate study in neuroscience or neuroscience research in conjunction with a health professional career should consider this option. Specialized neuroscience courses are required in the junior and senior years. Students are strongly encouraged to pursue undergraduate research since neuroscience careers almost exclusively involve research. Stipends and support for research are available, by application, during the summer of the third year.

Biological Sciences—Cellular and Molecular Biology (B.S.)**Special curriculum; major code BS2520**

Cellular and molecular biology are two of the most rapidly growing and exciting areas of modern biology. Progress in these areas is driven by the ongoing revolution in genetics and genomics, and has profound and wide-ranging implications for medicine and for our understanding of the mechanisms of life. This specialization will prepare students for graduate or professional school, and career paths in biotechnology, biomedical research, and related areas. These are fields that are experiencing tremendous growth in employment opportunities both in academia and in the private sector.

BS2520 Includes a minimum of 57 hours in BIOS.

Freshman

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A, 266B	Calculus w/App Biology	8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 322(L)	Animal Cell Biology Lab	2
BIOS 330	Principles of Evolution	4
BIOS 321(L)	General Microbiology	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 303, 304	Organic Chemistry Labs	5
PHYS 201, 202, 203 or 251, 252, 253	Physics	15

Junior-Senior

BIOS 326(L)	Genetics Lab	3
BIOS 426	Molecular Genetics	3
BIOS 427	Mechanisms Gene Regulation	3
CHEM 490, 491	General Biochemistry I, II	7

At least two of the following elective cellular/molecular courses:

BIOS 342, 354(L)	Prin. Physiology I, Lab	5
BIOS 343, 355(L)	Prin Physiology II, Lab	5
BIOS 407	Developmental Biology	4
BIOS 414	Molecular Cellular Neurosci	4
BIOS 422(L)	Microbial Techniques	5
BIOS 424A,	Virology	3
BIOS 425	Evolutionary Genetics	4
BIOS 450	Principles of Endocrinology	4
BIOS 489(L)	Microbial Physiology	5

Biological Sciences—Marine, Freshwater, and Environmental Biology (B.S.)**Special curriculum; major code BS2126**

The Department of Biological Sciences provides this program for undergraduate majors who are interested in careers studying marine and freshwater organisms and their environments. Students focusing on terrestrial environments should consider the Wildlife and Conservation Biology track. Courses meet the requirements for admission to graduate programs in marine biology, zoology, ecology, and conservation biology. The program also provides the necessary background for jobs with state and federal agencies (i.e., USDA or EPA) charged with environmental protection, research and monitoring, and information collection. Tier II social science electives can be chosen to meet the requirements of the Environmental Studies Certificate. For federal job and employment information, see <http://www.usajobs.opm.gov/>

BS2126 includes a minimum of 58 hours in BIOS.

Freshman

BIOS 170, 171 172, 173	Intro to Zoology	14
MATH 266A, 266B	Calculus w/App Biology	8
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Evolution	4
CHEM 301, 302 PHYS 201, 202 or 251,252	Organic Chemistry Physics	6 10

Junior

BIOS 431(L)	Aquatic Biology	5
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Junior-Senior

BIOS 429(L) or BIOS 433(L)	Marine Biology Biol Monit Assess	5 or 4
BIOS 491	Internship	3

At least one course must be taken from each of the three areas below:

1. Organismal (at least 5 credit hours required)

BIOS 303(L)	Comp Vert Anat	6
BIOS 321(L)	Microbiology	5
BIOS 430(L)	Invertebrate Biology	6
BIOS 436(L)	Field Entomology	3
BIOS 458(L)	Biology of Amphibians	3
BIOS 465(L)	Icthyology	6

2. Ecology (one course required)

BIOS 375	Animal Ecology	4
BIOS 376(L)	Field Ecology	4
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4

3. Molecular, Cellular, and Physiology (one course required)

BIOS 342, 354(L)	Prin of Physiology I, Lab	5
BIOS 426	Molecular Genetics	3
BIOS 462	Animal Phys Ecology	4
BIOS 463	Cell Chemistry	4

Additional electives may be needed to fulfill the following requirements:

• 58 BIOS credit hours. Choose additional courses from the list above or from any BIOS course at the 300-level or above (except 392) or from the following:

GEOG 417	Landscape Ecology	4
GEOG 453	Physical Limnology	4
GEOG 427	Water Geochemistry	4
GEOG 480	Principles of Hydrogeology	4
PBIO 420	Phycology	5
PBIO 437	Ecosystem Ecology	4
CE 452	Water and Wastewater Analysis	3

Biological Sciences—Microbiology (B.S.)**Special curriculum; major code BS0411**

The Department of Biological Sciences provides a program for undergraduate majors who are interested in microbiology. This program provides the necessary background and extensive lab experience to pursue a variety of careers in the areas of: research and product development (e.g. immunology, vaccines, antimicrobials, pharmaceuticals, biotechnology), food and water quality control, microbial ecology, and clinical laboratory science. Graduates of this program are also prepared for further graduate studies in medicine, dentistry, optometry, public health, microbiology or molecular biology. With current interest and advances in molecular biology and genetics, emerging pathogens such as HIV and food-borne illness, the career opportunities and outlook are very good.

Students in this program are encouraged to participate in research opportunities their junior-senior years to prepare for a successful career in research and development.

BS0411 includes a minimum of 60 hours in BIOS.

Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A*	Calculus w/App Biology	4

*Students who change special curricula (major codes) within Biology will also be required to take MATH 266B.

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330 or BIOS 385	Principles of Evolution Microbial Ecology	4 or 3
BIOS 321(L)	General Microbiology	5
CHEM 305, 306, 307	Organic Chemistry	9
PHYS 201, 202, 203 or 251, 252, 253	Physics	15

Junior-Senior

BIOS 486A, B(L)	Immunology, Lab	5
BIOS 489 (L)	Microbial Physiology	5
BIOS 426	Molecular Genetics	3
CHEM 490, 491	General Biochemistry I, II	7

At least 12 hours, including 2 lab courses from:

BIOS 326(L)	Lab Genetics	3
BIOS 385	Microbial Ecology	3
BIOS 422(L)	Microbiological Techniques	5

BIOS 423A, 423B(L)	Pathogenic Bacteriology, Lab	5
BIOS 424A	Virology	3
BIOS 427	Gene Regulation	3
BIOS 441A, 441B(L)	Parasitology, Lab	5
BIOS 444	Tropical Disease Biology	4

**Biological Sciences—Pre-Physical Therapy (B.S.)
Special curriculum; major code BS2507**

The biology pre-physical therapy major is designed to meet the prerequisites of the physical therapy program at Ohio University and most other institutions as well as nursing, physician assistant, and chiropractic programs. This major is also designed to provide students with a solid background in the life sciences. It should be noted that there are no uniform requirements for physical therapy schools. If you are interested in applying to a particular physical therapy program you will need to consult the school's catalog or Web site for exact prerequisites. For more information about the Ohio University School of Physical Therapy, see the Physical Therapy listing in this catalog.

BS2507 includes a minimum of 55 hours in BIOS.

Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A*	Calculus w/App Biology	4
PSY 101	General Psychology	5
PSY 273	Child Adolescent Psy	4

*Students who change special curricula (major codes) within Biology will be required to take MATH 266B.

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
CHEM 301, 302 or 305, 306, 307	Organic Chemistry	6 or 9
PHYS 201, 202, 203 or 251, 252 or 262, 253	Physics	15
PT 259A	Intro to Phys. Therapy	2

Junior-Senior

BIOS 301(L)	Human Anatomy	6
BIOS 345 and 346(L)	Human Physiology and Lab	7
BIOS 413(L)	Human Neuroscience	4
BIOS 445 and 446(L)	Physiology of Exercise and Lab	7
BIOS 463 or CHEM 490 and 491	Cell Chemistry General Biochemistry I and II	4 7

Recommended Elective:

PT 259B	Intro to PT-Clinical Exp.	3
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Additional recommended electives that fulfill Tier II and Arts and Sciences distribution requirements and are required by some PT schools:

CLAS 227	Greek and Latin Roots	4
PHIL 101 or PHIL 130	Fund Philosophy Intro to Ethics	5
PSY 226	Research Methods in Psychology	4

**Biological Sciences—Pre-Professional Program (B.S.)
Special curriculum; major code 2127**

The Department of Biological Sciences provides a specialized curriculum for students interested in one of the following:

Pre-dentistry

Pre-medicine

Pre-optometry

Pre-veterinary medicine

While no specific major is required by any of these schools, this curriculum provides students with a degree in Biological Sciences, prepares them for their professional school experience, and fulfills course requirements for entry into most schools. Applicants to these schools are required to take one of the following admission tests: Dental Admission Test (DAT), Medical College Admission Test (MCAT), Optometry Admission Test (OAT), and either the Veterinary Admission Test (VAT) or Graduate Record Exam (GRE) for veterinary school.

Students will be assigned an academic advisor who specializes in the type of professional school he or she is interested in attending. A student should contact the schools of choice and consult both their academic advisor and the department pre-professional advisor for specific course and exam requirements.

BS2127 includes a minimum of 55 hours in BIOS.

Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A, 266B	Calculus w/App Biology	8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
BIOS 321(L)	General Microbiology	5
CHEM 305, 306, 307*	Organic Chemistry	9
PHYS 201, 202, 203 or 251, 252 or 262, 253	Physics	15

Junior-Senior

BIOS 303(L)	Comp. Vert. Anatomy	6
BIOS 342, 354(L)	Prin. of Physiology I, Lab	5
BIOS 343	Prin. of Physiology II	3
BIOS 463 or CHEM 490 and 491**	Cell Chemistry General Biochemistry I and II	4 7

One course must be taken from each area below:

Molecular, Cellular and Developmental Biology

BIOS 326(L)	Laboratory Genetics	3
BIOS 407	Developmental Biology	4
BIOS 414	Molecular and Cellular Neurosci	4
BIOS 426	Molecular Genetics	3
BIOS 427	Mechan. Gene Regulation	3

Physiology and Body Systems

BIOS 355(L)	Prin. Physiology II Lab	2
BIOS 445	Physiology of Exercise	4
BIOS 450	Principles of Endocrinology	4
BIOS 486A	Immunology (optional lab BIOS 486B)	3 2

*Many medical and dental schools require organic chemistry labs for admission. Students considering these careers should take

CHEM 303, 304	Organic Chemistry Lab	5
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**Students considering medical school or veterinary school should take CHEM 490,491 to fulfill their biochemistry requirement.

Many optometry schools require a psychology course for admission. The following is recommended for students interested in this career track:

PSY 101	General Psychology	5
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Biological Sciences—Wildlife and Conservation Biology (B.S.)

Special curriculum; major code BS2515

This track is suitable for students who are interested in careers in the conservation and biology of wildlife. Graduates of this program meet the course qualifications for state and federal civil service registers as ecologist, wildlife biologist, wildlife refuge manager, zoologist, and general biologist. This program also provides training for students planning to go on to graduate school in wildlife biology or an allied discipline such as mammalogy, ornithology, herpetology, animal ecology, animal behavior, and conservation biology.

Tier II social science electives can be chosen to meet the requirements of the Environmental Studies Certificate program. For federal job and employment information, check the following Web site: <http://www.usajobs.opm.gov/>

BS2515 includes a minimum of 56 hours in BIOS.

Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A, 266B	Calculus w/App Biology	8

Sophomore

BIOS 325	Genetics	5
BIOS 320	Cell Biology	4
BIOS 330	Principles of Evolution	4
CHEM 301, 302 or 305, 306, 307	Organic Chemistry	6 or 9
PHYS 201, 202 or 251, 252	Physics	10

Junior–Senior

BIOS 303(L)	Comp. Vert. Anatomy	6
BIOS 375	Animal Ecology	4
BIOS 376(L)	Field Ecology	4
BIOS 491(L)	Internships	3

At least 12 hours in wildlife subjects including at least one lab course from:

BIOS 471(L)	Ornithology	6
BIOS 474(L)	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4
BIOS 481	Animal Conservation Bio	4
BIOS 458(L)*	Biology of Amphibians	3
BIOS 459(L)*	Biology of Reptiles	3
BIOS 465(L)*	Ichthyology*	6

The following 14 hours in PBIO courses:

PBIO 211	Diversity of Life	5
PBIO 248	Trees and Shrubs	4
PBIO 435 or PBIO 436 or PBIO 437	Plant Population Biology Plant Community Ecology Ecosystem Ecology	5 5 4

*BIOS 465, BIOS 458, and BIOS 459 may be used to fulfill elective requirements for this track, but do not meet federal civil service register requirements as wildlife subjects.

Biology

See Biological Sciences or Environmental and Plant Biology

Cartography

See Geography, Geographic Information Science.

Chemistry and Biochemistry

Upon completing the requirements for the B.S. degree with a major in chemistry, you are eligible for professional status in the American Chemical Society. Completion of a B.A. degree in chemistry does not qualify you for certification.

Due to changes in standards for teacher licensure in the State of Ohio, the current program in chemistry is subject to change. If you are interested in becoming licensed to teach chemistry at the secondary level, contact the Office of Student Services in the College of Education.

All chemistry laboratory courses have a consumable materials fee. In addition, students must purchase a \$20 breakage card from the cashier's office, the unused portion of which will be refunded.

Chemistry Major (B.S. or B.A.)

Major codes BS3311, BA3311

The B.S. degree program is chosen by students planning to enter a graduate program in chemistry or work in the chemical industry. Requirements for the B.S. degree include a minimum of 76 hours of chemistry from the following:

CHEM 151-152-153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quant. Analysis Lab	1
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
CHEM 400A	Advanced Organic Lab	2
CHEM 400B	Advanced Inorganic Lab	2
CHEM 453, 454, 455	Physical Chemistry	9
CHEM 456, 457	Physical Chemistry Lab	6
CHEM 460	Spectroscopic Methods in Organic Chemistry	3
CHEM 376	Fund. of Inorganic Chemistry	3
CHEM 476	Mod. Inorganic Chemistry	4
CHEM 489 or CHEM 490-491-492	Basic Biochemistry General Biochemistry	4 or 10

Any two of the following:

CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5

Extracurricular requirements include MATH 263A-B-C-D and PHYS 251-252-253, which should be completed by the end of the second year.

Requirements for the B.A. degree in chemistry include a minimum of 53 hours of chemistry from the following:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 301, 302 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	6 or 9
CHEM 303, 304 or CHEM 308, 309	Organic Chemistry Lab Organic Chemistry Lab	5 or 6
CHEM 325	Instr. Meth. of Analysis	4
or any two pairs:		
CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5
CHEM 351 or CHEM 453, 454, 455	Physical Chemistry Physical Chemistry	4 or 9
CHEM 376	Fund. of Inorganic Chem.	3
CHEM 476	Mod. Inorganic Chem.	4

One course in biochemistry

A full year's work is required in at least one of the following fields:

Analytical: 241–242 and any two of the pairs 431–434, 432–435, 433–436

Organic: 305–306–307

Physical: 453–454–455

Biochemistry: 490–491–492

Extrdepartmental requirements include MATH 163 A-B and PHYS 201-202-203, which should be completed by the end of the second year.

**Chemistry Minor
Minor code OR3311**

A minor program in chemistry requires a 2.0 overall g.p.a. and completion of at least 29 quarter hours of chemistry coursework, including

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302, 303 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	8 or 9

Any two of the following:

CHEM 241 and 242	Quantitative Analysis	5
CHEM 351 or CHEM 453	Physical Chemistry	4 or 3
CHEM 489 or 490	Biochemistry	4
CHEM 376	Fund. Inorganic Chem.	3

You must have a minimum g.p.a. of 2.0 in chemistry coursework taken for the minor.

**Chemistry—Biochemistry Major (B.S.)
Special curriculum; major code BS3316**

This program serves students who have an interest in biological applications of chemistry as a biochemist or health scientist in medicine, industry, or research; as preparation for graduate studies in biochemistry or another life science such as molecular biology, microbiology, or immunology; or as preparation for combining a career in medicine, dentistry, pharmacy, etc., with research. The curriculum includes all fundamental areas of chemical and biological sciences with emphasis on advanced biochemistry, including biochemical laboratory techniques, instruments, experiment design, and protocols, and requires 56 hours of chemistry, including:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263 A, B	Calculus	8
BIOS 170, 171, 172, 173	Intro to Zoology	14

Arts and Sciences degree and General Education Requirements.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 201, 202, 203	Intro to Physics	15
BIOS 325	General Genetics	5

Arts and Sciences degree and General Education Requirements.

Junior

CHEM 325 or CHEM 431, 434	Instr. Analysis Chem. Separation Meth.	4
CHEM 351	Physical Chemistry	4
CHEM 490, 491, 492	General Biochemistry	10
CHEM 493	Biochemical Techniques	3

Arts and Sciences degree and General Education Requirements.

Senior

BIOS 426 or PBIO 450	Biotech. and Genetic Eng.	4
BIOS 342, 343	Prin. of Physiology	6
Elective: CHEM 494	Biochemical Research	1–5

**Environmental Chemistry Major (B.S. or B.A.)
Special curricula; major codes BS3315, BA3315**

To prepare for a career in environmental chemistry, you can pursue the regular B.S. or B.A. in chemistry and take some of the following environmentally related courses as electives.

The Department of Chemistry and Biochemistry has advisors in environmental chemistry to assist you in planning your studies in the field. See also the environmental degree programs in the Departments of Biological Sciences, Environmental and Plant Biology, Geography, and Geology.

The B.S. degree program is chosen by students seeking entrance into graduate programs in chemistry. Requirements for the B.S. degree in environmental chemistry include at least 78 hours of chemistry from the following:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
CHEM 400A	Advanced Organic Lab	2
CHEM 400B	Advanced Inorganic Lab	2
CHEM 453, 454, 455	Physical Chemistry	9
CHEM 456, 457	Physical Chemistry Lab	6
CHEM 376	Fund. Inorganic Chem.	3
CHEM 476	Mod. Inorganic Chem.	4
CHEM 431	Chem. Separation Meth.	3
CHEM 432	Chemical Instrumentation and Electrochemistry	3
CHEM 433	Spectrochemical Analysis	3
CHEM 434	Chemical Separations Lab	1
CHEM 435	Chemical Instrumentation and Electrochemistry Lab	1
CHEM 436	Spectrochem. Anal. Lab	2
CHEM 489 or CHEM 490, 491, 492	Basic Biochemistry General Biochemistry	4 10

Extrdepartmental requirements

MATH 263A–B–C–D

PHYS 251–252–253

These courses should be completed by the end of the second year.

Requirements for the **B.A. degree** in environmental chemistry include at least 53 hours of chemistry from the following:

CHEM 151, 152, 153	Fundamentals of Chemistry	15
CHEM 241, 242	Quantitative Analysis, Lab	5
CHEM 301, 302 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	6 or 9
CHEM 303, 304 or CHEM 308, 309	Organic Chemistry Lab Organic Chemistry Lab	5 or 6
CHEM 325	Instr. Meth. of Analysis	4
or any two of the following pairs:		
CHEM 431, 434	Chemical Separation Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochemical Anal., Lab	5
CHEM 351 or CHEM 453, 454, 455	Physical Chemistry Physical Chemistry	4 or 9
CHEM 376	Fund. Inorganic Chem.	3
CHEM 476	Mod. Inorganic Chem.	4
One course	Biochemistry	

A full year's work is required in at least one of the following fields:

Analytical: 241–242 and any two pairs of 431–434, 432–435, or 433–436

Organic: 305–306–307

Physical: 453–454–455

Biochemistry: 490–491–492

Extrdepartmental requirements include MATH 163 A-B and PHYS 201-202-203, which should be completed by the end of the second year.

Suggested electives

BIOS 275	Animal Ecology	4
BIOS 221, 222	Env. Microbiology, Lab	6

CHEM 485	Intro to Toxicology	4
GEOG 357	Environmental Law	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Res. Economics	4
ECON 335	Economics of Energy	4
CHE 461	Environ. Assessments	3
CE 452	Water and Wastewater Analysis	3
GEOG 201	Environmental Geography	4
GEOG 241	Global Issues in Env. Geog.	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 440	Environ. Impact Analysis	4
GEOL 215	Environmental Geology	4
GEOL 231	Water and Pollution	4
GEOL 480	Hydrogeology	4
PBIO 410	Plants and Soil	4
PBIO 425	Plant Ecology	5
POLS 425	Env. and Natural Res. Economics	4

Forensic Chemistry Major (B.S.)**Major code BS3310**

Forensic chemistry is the application of chemistry and related sciences to criminal investigation. The program prepares you for work in modern crime laboratories or other law enforcement agencies such as FDA, OSHA, and EPA, or for graduate work in forensic chemistry or forensic sciences. Requirements for the degree include at least 69 hours of chemistry from the following:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241, 242	Quantitative Analysis, Lab	5
CHEM 305, 306, 307 308, 309	Organic Chemistry, Lab	15
CHEM 351	Physical Chemistry	4
CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5
CHEM 485	Intro to Toxicology	4
CHEM 487A	Forensic Chemistry	3
CHEM 487B	Forensic Chemistry Lab	3
CHEM 489	Biochemistry	4

In addition, students must choose to complete all the course for ONE of the options below:

Option 1: Trace Analyst

CHEM 376	Fund. of Inorganic Chem.	3
CHEM 460	Spectroscopic Methods in Organic Chemistry	3
CHEM 400A	Adv. Organic Chem. Lab	2
CHEM 488A	Topics in Forensic Science I	3

Option 2: DNA Analyst

CHEM 488C	Forensic DNA Analysis II	3
BIOS 325	General Genetics	5
BIOS 326	Laboratory Genetics	4
PBIO 450	Biotechnology and Genetic Engineering	4

Extrdepartmental requirements

LET 100	Intro to Law Enforc. Tech.	3
LET 120	Const., Crim., Civil Law	3
LET 140	Intro to Criminalistics	3
LET 200	Proc., Rules, and Tests of Evidence	4
LET 250	Vice and Narcotic Cont.	3
LET 260	Criminal Investigation	3
MATH 263A, B	Calculus	8
PHYS 251, 252, 253	General Physics	15

BIOS 170, 171	Intro to Zoology	10
BIOS 364	Forensic Biology	4
PSY 221	Statistics for the Behavioral Sciences	5

Consult the director, Forensic Chemistry Program, Department of Chemistry and Biochemistry, for advance advising and schedule planning.

Chemistry—Pre dentistry Major (B.S. or B.A.)**Special curricula; major codes BS3312, BA3312**

To major in chemistry and prepare for admission to dental school, you have the option of completing either of two degree programs: one leading to a B.S. and the other to a B.A. degree.

Requirements for the **B.S. program** include 56 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zoology	14
MATH 263A, B or MATH 163A, B	Calculus Intro to Calculus	8 or 7
	English Composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 251, 252, 253 or PHYS 201, 202, 203	General Physics Intro to Physics	15
CHEM 376	Fund. Inorganic Chem.	3

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5
BIOS 342, 343	Intro to Physiology	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6
BIOS 321	General Microbiology	6
BIOS 407	Developmental Biology	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Requirements for the **B.A. program** include 56 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zoology	14
MATH 163A, B	Intro to Calculus	7
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
CHEM 376	Fund. Inorganic Chem.	3
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Chemistry—Premedicine Major (B.S. or B.A.)
Special curricula; major codes BS3314, BA3314**

To major in chemistry and prepare for admission to medical school, you can complete either of two programs: one leading to a B.S. and the other to a B.A. degree.

Requirements for the **B.S. program** include 56 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B or MATH 163A, B	Calculus Intro to Calculus	8 or 7
BIOS 170, 171, 172, 173	Intro to Zoology	14
PSY 221	Statistics	5
	English Composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
CHEM 376	Fund. Inorganic Chem.	3
PHYS 251, 252, 253 or PHYS 201, 202, 203	General Physics Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5
BIOS 342, 343	Prin. of Physiology	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Comp. Vert. Anatomy	6
BIOS 407 or BIOS 321	General Microbiology Developmental Biology	6 4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Requirements for the **B.A. program** include 56 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 163A, B	Intro to Calculus	7
BIOS 170, 171, 172, 173	Intro to Zoology	14
	English Composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6

CHEM 376	Fund. Inorganic Chem.	3
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Chemistry—Prepharmacy Major (B.S.)
Special curriculum; major code BS3313**

Completion of the program below will result in a B.S. degree with a major in chemistry. The program is specifically designed to prepare the student for admission into a Doctor of Pharmacy program at an accredited pharmacy school. Graduates of a Doctor of Pharmacy program are eligible to take licensure examinations to become registered pharmacists.

The program listed below is based upon the requirements of the four pharmacy schools in Ohio, but other schools may vary in their requirements. It is the responsibility of the student to ensure that the admission requirements for a particular school are met. Consult your advisor for assistance.

Unless otherwise indicated, BIOS departmental courses may be retaken only once. Requirements include 53 hours of chemistry from the following:

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B	Calculus	8
BIOS 170, 171, 172, 173	Intro to Zoology	14

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instr. Methods of Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 300 or BIOS 301	Anatomy and Histology Human Anatomy	6 6
BIOS 321	General Microbiology	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Classics and World Religions

The B.A. degree in Classics includes four possible tracks reflecting a range of interests in the field. Each track requires a different balance of study in Classics (Greek and Latin) and Classical civilization. The B.A. degree in World Religions

incorporates several distinct emphasis areas reflecting the modern range of interest in the field.

The department offers courses in Greek, Latin, Classical archaeology (CLAR), Classic texts in translation (CLAS), and world religions (CLWR). Although there is no specific major in archaeology or Classics in English, the Classical Civilization major offers the opportunity to concentrate in either area. The World Religions major also offers a wide choice of coursework upon which to build an individual course of study. In the Courses of Instruction section, look under Classics and World Religions for Classical Archaeology, Classics in English, and World Religions; and look under Foreign Languages and Literature for courses in Greek and Latin.

The department offers two study-abroad programs in alternate years, a 10 week spring program in Greece, and a 10 week fall program in Rome taught jointly by Classics and the Department of Modern Languages. The program in Greece is geared toward intermediate-level students of Greek. While in Greece, you will visit archaeological and historical sites and learn Modern Greek as you continue your study of ancient Greek texts. The program in Rome focuses on the city itself through archaeological survey of the monuments and the analysis of history and literature from the perspective of social history.

Classical Civilization Major (B.A.)

Major code BA5214

The Classical Civilization major consists of: completion of the Latin or Greek language sequence through 213, and a minimum of 48 hours of coursework, including a senior research project. This would include:

A. A minimum of 20 hours of coursework from 200 level CLAS and CLAR courses (CLAS 227 not eligible), and/or 300-400 level LAT and GK courses. Of the 20 hours, 12 must be from 3 of the following courses:

CLAS 252	Classical Athens	4
CLAS 254	Rome under the Caesars	4
CLAR 211	Greek Archaeology	4
CLAR 212	Roman Archaeology	4

B. A minimum of 20 hours from 300-400 level CLAS, CLAR, HIST 329B and C, LAT and/or GK courses.

C. 8-10 hours from extradepartmental courses approved in consultation with a Classics faculty advisor in connection with the student's approved course of study.

Classical Civilization Minor

Minor code OR5214

The Classical Civilization minor requires a minimum of 28 hours of coursework in Classics above the 100 level, including:

A. A minimum of 16 hours of coursework from 200 level CLAS and CLAR courses (CLAS 227 not eligible), and/or 200 level LAT or GK courses, including one of the following courses in Greek culture:

CLAS 252	Classical Athens	4
CLAR 211	Greek Archaeology	4
and one of the following courses in Roman culture:		
CLAS 254	Rome under the Caesars	4
CLAR 212	Roman Archaeology	4

B. A minimum of 12 hours from 300-400 level CLAS and CLAR courses. No knowledge of the Greek or Latin languages is required for the Classical Civilization minor.

Greek Major (B.A.)

Major code BA5212

Take 28 hours in Greek beyond GK 213, and 24 additional hours from approved CLAS, CLAR, HIST 329B, LAT and/or GK courses for a total of 52 hours.

Greek Minor

Minor code OR5212

Take 12 hours in Greek beyond GK 213, and 12 additional hours from approved CLAS, CLAR, LAT and/or GK courses.

Greek and Latin Major (B.A.)

Major code BA5213

Take a total of 40 hours in Greek and Latin beyond GK and LAT 213; and 24 additional hours from approved CLAS, CLAR, HIST 329B and C, LAT and/or GK courses for a total of 64 hours.

Latin Major (B.A.)

Major code BA5211

Take 28 hours in Latin beyond LAT 213; and 24 additional hours from approved CLAS, CLAR, HIST 329C, LAT and/or GK courses for a total of 52 hours.

Latin Minor

Minor code OR5211

Take 12 hours in Latin beyond LAT 213 and 12 additional hours from approved CLAS, CLAR, LAT and/or GK courses.

Suggested electives:

Anthropology

ANTH 202	Intro to World Archaeology	5
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Art History

AH 320	Greek Art	4
AH 321	Roman Art	4
AH 351	Ancient Architecture	4

History

HIST 328	The World of Aristophanes	3
HIST 331	The Ancient Greek Games	4

Humanities

HUM 107	Great Books	4
HUM 307	Great Books	4

Philosophy

PHIL 310	History of Western Philosophy	5
PHIL 418	Plato	5
PHIL 419	Aristotle	5

Political Science

POLS 371	Plato, Aristotle, and Pre-modern Political Thought	5
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World Religions Major (B.A.)

Major code BA5215

The B.A. degree in world religions incorporates several distinct emphasis areas reflecting the modern range of interest in the field and offers a wide choice of coursework upon which to build an individual course of study.

The World Religions major consists of a minimum of 45 hours of coursework in CLWR, CLAS, or CLAR, of which 16 hours must be at or above the 300 level, other than 490, 491, and 498, and at least two years of study in a language relevant to the chosen emphasis area.

Required courses:

CLWR 181	Introduction to Religion	4
or CLWR 387	Theories of Religion	4
or CLWR 481	Myth and Symbolism	5
CLWR 301	Old Testament	5
or CLWR 302	New Testament	5
CLAS 231	Human Aspirations among the Greeks and Romans	4
or CLAS 255	Pagan to Christian in Late Antiquity	4

Two of the following:

CLWR 311	Islam	4
CLWR 321	Hinduism	4
CLWR 331	Buddhism	4
CLWR 341	Taoism	5

Emphasis area: at least 12 hours of coursework in the ancient Mediterranean or Asia, although other emphasis areas may be developed with advisor or department approval.

Thesis:

CLWR 490	Senior Research	2
CLWR 491	Senior Research Writing	4

Extra-departmental courses: at least 1 course (4 hours). (Courses do not count toward the 45 hours in the major, but can fulfill general education requirements).

ANTH 357	Anthropology of Religion	4
ENG 304	English Bible	4
GEOG 336	Religious Space and Place	4
HIST 354A	Early Christianity	4
PHIL 260	Philosophy of Religion	4

World Religions Minor**Minor code OR5215**

The World Religions minor consists of a minimum of 28 hours in courses under the prefix CLWR, including:

CLWR 181	Introduction to Religion	4
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At least one 300 level course on the Abrahamic religions:

CLWR 301	Old Testament	5
CLWR 302	New Testament	5
CLWR 311	Islam	4

at least one 300 level course about traditions originating in India or China:

CLWR 321	Hinduism	4
CLWR 331	Buddhism	4
CLWR 341	Taoism	5

and at least two classroom courses at the 400 level

Computer Science

See Russ College of Engineering.

Criminology

See Sociology—Criminology Major.

Dentistry

See Biological Sciences or Chemistry and Biochemistry.

Drama

See Theater.

East Asian Studies Certificate Program

The East Asian Studies Certificate is open to students from any major. It will provide undergraduates with a broad understanding of East Asia as well as with language skills applicable for a wide variety of professions. The curriculum involves courses from four University colleges and many disciplines, and includes opportunity for study abroad in China at the Ohio Shandong Center in East Asian Studies. It calls for the completion of a two-year sequence of one East Asian language (these credits do not count toward the certificate), 4 hours of a required course, and 28 hours of elective courses, for a **total of 32 hours**.

Prerequisites

The first two years of an East Asian language. *Students demonstrating ability can enter at upper levels, as appropriate.*

Chinese:

CHIN 111-113	Elementary Chinese
CHIN 211-213	Intermediate Chinese

Japanese:

JPN 111-113	Elementary Japanese
JPN 211-213	Intermediate Japanese

Required courses—4 hours**Introductory course:**

HIST 246	Modern Asia	4
or POLS 342	East Asia in World Politics	4

The prerequisite hours in history and political science will be waived for certificate students who complete the upper level East Asian language series.

Elective courses—28 hours

To encourage the widest exposure possible, you will receive credit for no more than two courses in the same discipline (not including the introductory course), with the exception of the upper level language courses, which may total 12 credits.

AH 214	Arts of Non-Western Countries	4
AH 330	Arts of the Orient	4
AH 341	History of Chinese Art	4
AH 342	Art of 20th Century China	4
AH 343	History of Japanese Art	4
AH 435	Survey of Art of 20th C. China	4
AH 440	Survey of Chinese Art	4
CHIN 311-313	Advanced Chinese	12
CLWR 331	Buddhism	4
CLWR 341	Taoism	4
ECON 476	Econ of Korea, Japan and South Eastern Asia	4
FILM 421	International Film (Chinese Films)	4
FILM 422	International Film (Development of Chinese Films)	4
GEOG 131	Globalization and the Developing World	4
GEOG 329	World Economic Geography	4
GEOG 338	Southeast Asia	4
HIST 346C	Ancient China	4
HIST 346D	Imperial China	4
HIST 346E	China's Past Century	4
HIST 348A	Traditional Japan	4
HIST 348B	Modern Japan	4
JPC 250	Japanese Lang. and Culture	4
JPC 450	Japan: A Sociocultural Interpretation	4
JPN 311-313	Advanced Japanese	12
JPN 411-413	4th Year Japanese	12
JOUR 466	International Media	4
MGT 486	Business World in Asia	4
POLS 230	Intro. to Comparative Politics	4
POLS 445	Gov. and Politics of Japan	4
SOC 430	Sociology of Organizations	4
SOC 465	Social Change	4

Ecology

See Biological Sciences or Environmental and Plant Biology.

Economics**Economics (B.A.)
Major code BA4221**

Two opportunities are open to students interested in majoring in economics: a liberal arts program in the College of Arts and Sciences and a business economics program in the College of Business.

To major in economics in the College of Arts and Sciences, you must complete the B.A. degree requirements of the college and the following program to include a minimum of 40 hours of economics:

MATH 163A	Intro to Calculus	4
40 hours of economics, including:		
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 381	Intro to Econ. Statistics and Econometrics	4
ECON 485 or ECON 482	Applied Economic Methodology Topics in Econometrics	4

If you have definite career goals, you are encouraged to follow a specific track within the economics major. A track identifies electives that are most relevant to a given career. Additional information is available from the Department of Economics

Courses for the prelaw track

ECON 213	Current Economic Problems	4
ECON 316	Economics and the Law	4
ECON 332	Industrial Organization	4
ECON 334	Econ. and Antitrust Law	4
ECON 337	Govt. Reg. of Business	4

Courses for the policy analysis track

ECON 213	Current Economic Problems	4
ECON 312	Economics of Poverty	4
ECON 313	Econ. of the Environment	4
ECON 315	Economics of Health Care	4
ECON 425	Public Policy Economics	4
ECON 430	Public Finance	4

Courses for the business economics track

ECON 305	Managerial Economics	4
ECON 320	Labor Economics	4
ECON 332	Industrial Organization	4
ECON 337	Govt. Reg. of Business	4
ECON 340	International Trade	4
ECON 360	Money and Banking	4

Economics Minor

Minor code OR4221

A minor in economics consists of a minimum of 28 credit hours in economics including

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4

At least two other courses at the 300 level or above

Economics Pre-Foreign Service Major (B.A.)

Special curriculum; major code BA4223

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

Economics—Prelaw Major (B.A.)

Special curriculum; major code BA4222

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed; as a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have

designated advisors assigned to help students interested in law careers. For further information, see Law in this section of the catalog.

English

The Department of English offers majors in English, creative writing, prelaw, and theology. If you are an Arts and Sciences student interested in becoming licensed to teach English at the secondary level (middle school or high school), please seek assistance at the department office, Ellis 360, to meet with English department faculty knowledgeable about English education. Together you can plan how to complete the licensure requirements listed under Integrated Language Arts in the College of Education section of this catalog.

The department also offers Arts and Sciences students who qualify the opportunity to take an intensive 60-hour two-year major in tutorial form alongside the Honors Tutorial College English majors. Tutorial seminars start each September. Students must have a high degree of self-motivation and have excellent capacities for the study of English literature. If interested, apply to the departmental director of the Tutorial Program through the department office.

English Major

Major code BA5231

The major requirement for the literature-based B.A. degree consists of at least 59 hours above 199, including:

ENG 250	Intro to Textual Analysis	4
ENG 251	English Lit. to 1688	5
ENG 252	English Lit. 1689 to Present	5
ENG 253	Survey of American Lit.	5
ENG 254	Research and Writing in English Studies	4

Two of the following seven:

ENG 301	Shakespeare: Histories	4
ENG 302	Shakespeare: Comedies	4
ENG 303	Shakespeare: Tragedies	4
ENG 311	English Lit. to 1500	4
ENG 312	English Lit. 1500–1660	4
ENG 313	English Lit. 1660–1800	4
ENG 321	American Lit. to 1865	4
ENG 351 or ENG 352 or ENG 353 or ENG 399	Hist. of the English Language Dev. of American English Struct. of American English Literary Theory	4 4 4 4

Eight hours of:

ENG 460, 464, 465, 466	Senior Seminar	4
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Four 300- or 400-level electives

English Creative Writing Major

Major code BA5232

The major requirement for the creative-writing-based B.A. degree consists of at least 67 hours above 199, including:

ENG 250	Intro to Textual Analysis	4
ENG 251	English Lit. to 1688	5
ENG 252	English Lit. 1689 to Present	5
ENG 253	Survey of American Lit.	5
ENG 254	Research and Writing in English Studies	4

Two of the following seven:

ENG 301	Shakespeare: Histories	4
ENG 302	Shakespeare: Comedies	4
ENG 303	Shakespeare: Tragedies	4
ENG 311	English Lit. to 1500	4

ENG 312	English Lit. 1500–1660	4
ENG 313	English Lit. 1660–1800	4
ENG 321	American Lit. to 1865	4
ENG 351 or ENG 352 or ENG 353 or ENG 399	Hist. of the English Language Dev. of American English Struct. of American English Literary Theory	4 4 4 4
Three of the following:		
ENG 361	Creative Writing: Fiction	4
ENG 362	Creative Writing: Poetry	4
ENG 363	Creative Writing: Nonfiction	4
ENG 393	Creative Writing Workshop: Fiction	4
ENG 394	Creative Writing Workshop: Poetry	4
ENG 395	Creative Writing Workshop: Nonfiction	4
ENG 486	Advanced Workshop in Poetry	4
ENG 487	Advanced Workshop in Fiction	4
ENG 488	Advanced Workshop in Nonfiction	4
One of the following:		
ENG 481	Form and Theory of Literary Genres:Poetry	4
ENG 482	Form and Theory of Literary Genres:Fiction	4
ENG 483	Form and Theory of Lit. Genres: Nonfiction	4
Three 300- or 400-level electives		
Four hours of:		
ENG 460, 464, 465, 466	Senior Seminar	4

English—Prelaw Major (B.A.)

Special curriculum; major code BA5234

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree in English (BA5231, BA5232) and take relevant electives in other schools and departments. Consult your faculty advisor. Law schools prescribe no special curriculum. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated advisors assigned to help students interested in law careers. For further information, see “Law” in this section of the catalog.

English—Pretheology Major (B.A.)

Special curriculum; major code BA5233

If you plan to enter a theological seminary or do graduate study in religion, it is recommended that you take a broad program, including the following (with suggested minimum quarter hours): philosophy and world religions (12); courses on the texts and history of religions (15); English composition and literature, world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements for the Bachelor of Arts degree and the University General Education Requirements. It is advisable to major in philosophy, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major is also available from the Department of History or Philosophy.

English Minor

Minor code OR5231

The English minor consists of a minimum of 31 hours above 199, including

ENG 250	Intro to Textual Analysis	4
ENG 251	English Lit. to 1688	5
ENG 252	English Lit. 1689–Present	5
ENG 253	Survey of American Lit.	5

Three additional courses above 299

Study of the Environment

The study of the environment includes the physical nature of the planet as well as plant and animal interactions involving other living organisms, space, land, and water. The Departments of Biological Sciences, Chemistry and Biochemistry, Environmental and Plant Biology, Geography, and Geological Sciences offer programs for preparation in the study of the environment. These programs allow you to develop a fundamental knowledge of the nature of basic environmental parameters; a sense of the complex interactions of living organisms, including humans, on those parameters; and a basis for approaching solutions to problems resulting from this impact. To major in the study of the environment at Ohio University, choose a discipline for intensive investigation (biological sciences, chemistry, environmental and plant biology, geography, geological sciences) and, in consultation with an advisor in that department, develop a program to meet your goals.

The following degree programs are offered:

- 1 Preparation for Environmental Biology (Biological Sciences Emphasis)
- 2 Preparation for Environmental Biology (Plant Biology Emphasis)
- 3 Preparation for Environmental Chemistry
- 4 Preparation for Environmental Geography
- 5 Preparation for Environmental Geology

In addition, the Department of Geography offers an environmental prelaw major.

For the specific requirements of each program, refer to the respective department’s listing in this section of the catalog.

The College of Arts and Sciences sponsors the undergraduate Environmental Studies Certificate Program for students who are interested in environmental studies but do not wish to major in the field. The program is available to students in any major within the University. See the Environmental Studies Certificate Program listing in this section for requirements.

Environmental and Plant Biology

For students interested in careers in plant biology, plant pathology, biotechnology, environmental biology, natural resources, conservation, field biology, agronomy, plant breeding, freshwater biology, or cell biology, the Department of Environmental and Plant Biology offers major programs in plant biology, environmental biology, applied ecology, and cell biology and biotechnology, and a research/study abroad program spotlighting different physiographic regions and their plant life. (See Global Studies in Plant Biology.)

Plant Biology Major (B.A. or B.S.)

Major codes BA2111, BS2111

The B.A. degree in plant biology is designed for students interested in the plant sciences who desire a broad liberal education. The flexibility in this program allows for either a minor or second major in another discipline such as economics, business administration, computer science, anthropology, sociology, geography, geological sciences, or biological sciences. If you plan to do graduate studies in plant biology or a related biological science, a B.S. degree (see below) would be more appropriate. Consult a departmental advisor for assistance in selecting a program to prepare you for an advanced degree.

Requirements for the **B.A. degree** require a minimum of 40 PBIO credits, including the following:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2

Additional PBIO courses at 200 level or above to total at least 40 hours, but no more than 72. PBIO 490 credits do not count toward the 40-credit requirement, and a maximum of 2 hours of PBIO 404, 406, and 407 combined may count toward this requirement.

Recommended departmental elective:

PBIO 418	Writing in the Life Sciences	4
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Extrdepartmental requirements

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 171, 173	Intro to Zoology	6
or BIOS 173, 321	Intro to Zoology, Gen. Microbiology	6
or BIOS 435	Entomology	6

One course from the following:

MATH 163A	Intro to Calculus	4
or MATH 263A	Calculus	4
or MATH 266A*	Calculus with Bio App.	4
MATH 250	Intro to Prob. and Stat.	4
CS 210	Programming in C	5
PSY 120	Elem. Statistical Reasoning	4

*preferred option

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Requirements for the **B.S. degree** require a minimum of 52 PBIO hours, including the following:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2

Additional PBIO credit hours at 200 level or above to total at least 52 hours, but no more than 80. A maximum of 8 hours of PBIO 404, 406, 407, and 490 combined may count towards the 52-hour requirement.

Recommended departmental elective:

PBIO 418	Writing in the Life Sciences	4
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Extrdepartmental requirements:

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 171, 173	Intro to Zoology	6
or BIOS 173, 321	Intro to Zoology, Gen. Microbiology	6
or BIOS 435	Entomology	6
PHYS 201, 202, 203	Intro to Physics	15
MATH 163A, 163B,	Intro to Calculus	7
or MATH 263A, 263B	Calculus	8
or MATH 266A, 266B*	Calculus with Bio App.	8
PSY 221	Statistics for Beh. Sci.	5
or MATH 250	Intro to Prob. and Stat.	4

*preferred option

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Plant Biology Minor
Minor code OR2111

Requirements for a minor in plant biology consist of a minimum of 28 credit hours of coursework in plant biology including PBIO 114, 115, 209, and 211, and at least two courses at the 300 level or above.

Plant Biology—Cell Biology and Biotechnology Major (B.S.)

Special curriculum; major code BS2118

The Department of Environmental and Plant Biology offers this program for students who are interested in pursuing a profession in biotechnology or biology at the cellular or molecular level. It can provide you with a sound basis for a technical career or for graduate study with a view to a career in research or teaching.

Required PBIO courses consist of a minimum 49 hours, including:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 431	Cell Biology	5
PBIO 442	Experimental Anatomy of Plant Development	5
PBIO 450	Biotechnology and Genetic Engineering	4
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2
or PBIO 490	Internship	2

Two additional PBIO courses at 300 level or above.

Required nondepartmental courses:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 490	General Biochemistry	4
CHEM 303, 304, 305, 306, 307	Organic Chemistry, Lab	14
or CHEM 301, 302, 303, 304	Organic Chemistry, Lab	or 11
BIOS 173	Intro to Zoology	1
BIOS 321	Microbiology	5
PHYS 201, 202, 203	Intro to Physics	15
or PHYS 251, 252, 253	General Physics	
MATH 163A, B	Intro to Calculus	7
or MATH 263A, B	Calculus	or 8
or MATH 266 A, B*	Calculus with Bio App.	or 8
PSY 221	Statistics for Beh. Sci.	5
or MATH 250	Intro to Prob. and Stat.	4

*preferred math option

Recommended departmental electives:

PBIO 415	Quantitative Methods in Plant Biology	5
PBIO 418	Writing in the Life Sciences	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Plant Biology—Environmental Biology Major (B.S.)
Special curriculum; major code BS2113

A major in Environmental Biology provides rigorous preparation, potentially leading to graduate-level training and/or entry level jobs in research, teaching, natural resource management, conservation planning, or science administration. You will receive a strong conceptual understanding of environmental and plant biology, competency with important tools and techniques, and a good background in the natural sciences. The program draws on supporting courses in geography, geology, mathematics, animal biology, physics, and chemistry. It is suggested that students completing this major also obtain the Environmental Studies Certificate. Students are expected to do research in the labs of faculty members or carry out an internship. Graduates of this program are working (for example) in urban forestry, directing the ecological restoration of strip mines, teaching in various colleges and universities, and collecting medicinal plants in Africa. Several graduates have gone into environmental law.

This program differs from other environmental science programs at Ohio University in that it focuses on plants, which are the foundation of life on earth and hence critical to an understanding of environmental science. Students graduating with this major will have marketable skills in plant identification, vegetation survey techniques, statistics, experimental design, and applied computer technology.

Required PBIO courses consist of a minimum of 53 hours, including:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 415	Quantitative Methods in Plant Biology	5
PBIO 426	Plant Physiological Ecology	5
or PBIO 435	Plant Population Biology	5
or PBIO 436	Plant Community Ecology	5
or PBIO 437	Ecosystem Ecology	4
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2
or PBIO 490	Internship	2

Additional PBIO credit hours at 200 level or above to total at least 53 hours, but no more than 80. A maximum of 6 hours of PBIO 404, 406, 407, and 490 combined may count toward the 53-hour requirement.

Recommended departmental elective:

PBIO 418	Writing in the Life Sciences	4
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Required nondepartmental courses

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 171, 173	Intro to Zoology	6
or BIOS 173, 321	Intro to Zoology, Gen. Microbiology	6
or BIOS 435	Entomology	6

Any BIOS course of 4 credits or more at 300–400 level (see recommended electives below)

GEOG 201	Environmental Geography	4
GEOG 268	Computer Appl. in Geog.	4
GEOG 370	Geog. Inform. Sys. Applications	4
GEOL 101	Intro to Geology	5
MATH 163A	Intro to Calculus	4
or MATH 263A	Calculus	4
or MATH 266A*	Calculus with Bio App	4
PHYS 201, 202	Intro to Physics	10
PSY 221	Stat. for Behavioral Sci.	5
GEOG 357	Environmental Law	4
or POLS 425	Environ. and Nat. Res. Politics and Policy	4
or POLS 426	Politics of Contemp. Env. Movements	4

*preferred math option

Recommended electives

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 313	Econ. of the Environment	4
BIOS 375	Animal Ecology	5
BIOS 430	Invertebrate Biology	6
BIOS 431	Limnology	5
BIOS 435	Entomology	6
BIOS 477	Population Ecology	4
BIOS 481	Animal Conservation Biol	4
GEOG 260	Maps	4
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 316	Biogeography	4

GEOG 353	Environmental Planning	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	4
GEOG 466	Remote Sensing	5

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

**Plant Biology—Applied Ecology Major (B.S.)
Special curriculum; major code BS2115**

The Applied Ecology program prepares students for entry-level environmental science jobs immediately after graduation. In addition to providing a strong background in field botany and ecology, the program offers students experience in a variety of marketable skills including plant identification, vegetation survey techniques, GIS, and greenhouse management. Graduates have jobs in environmental monitoring, rare-plant surveys, high school teaching, project management for nonprofit organizations, horticulture, park management, organic farming, and tree care. Students are strongly encouraged to select the internship option, to enhance job prospects. Listings of internship opportunities can be found at the following web sites:

<http://www.thesca.org/>
<http://www.americorps.org/vista/>
<http://conbio.org/SCB/Services/Jobs/>
<http://biology.duke.edu/jackson/ecophys/tech.htm>
<http://biology.duke.edu/jackson/ecophys/undergrad.htm>

Required PBIO courses consist of a minimum of 55 hours, including:

PBIO 114	Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 309	Plant Systematics & Ohio Flora	6
PBIO 331	Plant Genetics	5
PBIO 322	Tropical Plant Biology	4
or PBIO 426	Physiological Pl. Ecology	5
or PBIO 435	Plant Population Biology	5
or PBIO 436*	Plant Community Ecology	5
or PBIO 437	Ecosystem Ecology	4
PBIO 404	Undergraduate Research	2
or PBIO 406	Undergrad Res./Writ. Pres.	2
or PBIO 407	Undergrad Res./Oral Pres.	2
or PBIO 490	Internship	2

*Strongly recommended. The vegetation analysis skills taught in PBIO 436 are particularly valuable in the environmental job market.

Additional PBIO credit hours at 200 level or above to total at least 55 hours, but no more than 80. A maximum of 10 hours of PBIO 404, 406, 407, and 490 combined may count toward the 55-hour requirement. It is recommended that the additional courses used to satisfy the 55-hour requirement be selected from PBIO 248, 307, 310, 410, 412, 420, 426, 435, 436, and 437.

Recommended departmental elective:

PBIO 418	Writing in the Life Sciences	4
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Required nondepartmental courses

BIOS 171, 173	Intro to Zoology	6
or BIOS 173, 321	Intro to Zoology, Gen. Microbiology	6
or BIOS 435	Entomology	6
BIOS 220	Conservation and Biodiversity	4
4 additional hours of BIOS courses at 300-400 level (see recommended electives below)		
CHEM 121, 122, 123	Prin. of Chemistry	12
or CHEM 151, 152, 153	Fund. of Chemistry	15
GEOL 101	Introduction to Geology	5
PSY 221	Stat. for Behavioral Sci.	5

4 additional hours from GEOL (GEOL 231: Water and Pollution recommended to satisfy this requirement)

GEOG 268	Computer Appl. in Geog.	4
GEOG 370	Geog. Inform. Sys. Applications	4
4 additional hours in GEOG from the following:		
GEOG 201	Environmental Geog.	4
GEOG 260	Maps	4
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 316	Biogeography	4
GEOG 353	Environmental Planning	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	4
GEOG 466	Remote Sensing	5

Recommended electives

BIOS 375	Animal Ecology	5
BIOS 430	Invertebrate Biology	6
BIOS 431	Limnology	5
BIOS 435	Entomology	6
BIOS 471	Ornithology	6
BIOS 474	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 481	Animal Conservation Biol.	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Environmental Studies Certificate Program

The field of environmental studies encompasses the complex interactions between humans, other organisms, and the biophysical environment. The Environmental Studies Certificate Program is open to students in any major program within the University who want to gain knowledge and understanding about the interdisciplinary field of environmental studies. Completion of this program, which is the equivalent of a minor, results in the awarding of a certificate and is officially recognized on your transcript upon graduation.

You can earn a certificate in environmental studies by completing 32–35 hours of approved coursework selected from the courses outlined below. Many certificate courses currently satisfy both Tier and Arts and Sciences requirements. Further, courses taken as part of an Arts and Sciences major will also count toward fulfilling the certificate. Be advised that some courses require prerequisites, and plan accordingly. Students should take *no more than three courses from any one department*.

Core Requirements (12-13 hours)

GEOG 201 or GEOL 215	Environ. Geography Environ. Geology	4
BIOS 220 or BIOS 275 or BIOS 375 or PBIO 209	Conserv. and Biodiversity Ecology for the 21st Century Animal Ecology Plant Ecology	4 4 5 4
POLS 425	Environmental and Natural Resource Politics and Policy	4

Quantitative Skills (4-5 hours)

Choose an approved course in statistics, such as

ECON 381	Intro to Econ. Statistics and Econometrics	4
GEOG 271	Intro to Stat. in Geog.	4
GEOG 471	Quantitative Methods	

GEOL 205	Stat. Methods in Geol.	4
MATH 250	Intro to Prob. and Stat.	4
MATH 450A	Theory of Statistics	4
PBIO 415	Quantitative Methods	5
PESS 409	Tests and Measurements	4
POLS 483	SPSS	4
PSY 221	Stat. for Behavioral Sci.	5
ISE 304	Applied Engineering Statistics	3
IH 400	Industrial Hygiene Sampling and Analysis	

Natural Sciences (8-9 hours)

One chemistry course (any except CHEM 115)

One of the following:

BIOS 221	Basic Microbiology	4
BIOS 376	Field Ecology	4
BIOS 385	Microbial Ecology	3
BIOS 429	Marine Biology	5
BIOS 431	Limnology	5
BIOS 481	Animal Conservation Biol.	4
CE 353	Basics of Environmental Engineering	
CE 452	Water and Wastewater Analysis	3
CHEM 330	Introduction to Toxicology	4
EH 260	Intro to Environmental Health and Safety	4
EH 310	Water Supply and Wastewater Environmental Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 440	Air Quality and Pollution Control	4
GEOG 302	Meteorology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 417	Landscape Ecology	4
GEOL 231	Water and Pollution	4
GEOL 330	Prin. of Geomorphology	5
GEOL 427	Water Geochemistry	4
GEOL 432	Origin and Classification of Soils	4
GEOL 480	Hydrogeology I	4
PBIO 426	Physiol. Plant Ecology	5
PBIO 435	Plant Population Biology	5
PBIO 436	Plant Community Ecology	5
PBIO 437	Ecosystem Ecology	4

Social Sciences (8-9 hours)

Two courses in two different departments from the following

ANTH 378	Human Ecology	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Res. Economics	4
EH 275	Environ. and Occupational Health & Safety Regulations	4
GEOG 241	Global Issues in Environ. Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 357	Environmental Law	4
GEOG 358	Geography of Risk	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conservation	4
GEOG 456	The City and the Environment	4
HIST 306	American Environ. History	4
PHIL 335	Environmental Ethics	4
POLS 426	Politics of Environ. Mvt.	4

European Studies

See International Studies.

Foreign Languages and Literatures

See Classics or Modern Languages.

Foreign Service

See Economics, History, or Political Science, Pre-Foreign Service Major.

Forensic Chemistry

See Chemistry—Forensic Chemistry Major.

French

See Modern Languages.

Geography

Geography bridges the natural and the social sciences. It plays an important role today because many of the world's problems require understanding of the interdependence between human activities and the environments, both natural and cultural, in which these activities are carried out. Geography is an attractive major for students because its theories and methods provide analytical techniques applicable to a wide range of questions asked over a broad spectrum of occupations. For students planning to end their formal education with the bachelor's degree, a geography major provides marketable skills and the broad perspectives on environment and society that enable graduates to move beyond entry-level positions. For similar reasons, geography provides a sound foundation for students who plan to enter graduate work in a variety of fields, from geography to business, land use planning, law, and medicine.

In addition to the basic geography major, The Department of Geography at Ohio University offers several specialized curricula: environmental geography, environmental pre-law, geographic information systems, cartography, meteorology, and urban planning. Students also may earn a minor in geography or in meteorology or a certificate in Geographic Information Science (GIS).

Geography Major (B.S. or B.A.) Major codes BS4231, BA4231

This program affords students flexibility in designing a curriculum that combines the traditions of physical and human geography with analytical and technical skills.

The requirements for a B.S. or B.A. in geography include the following courses:

55 hours of approved geography courses, including:

GEOG 101	Physical Geography	5
GEOG 121	Human Geography	4
GEOG 268	GIS and Mapping Sciences	4
GEOG 271	Intro to Stat. in Geog.	4
GEOG 481A	Senior Seminar	4

One regional course from the following:

GEOG 131	Globalization and the Developing World	4
GEOG 132	Industrial World	4

GEOG 232	Geography of Ohio	4
GEOG 234	Geog. of U.S. and Canada	4
GEOG 330	Geog. of Western Europe	4
GEOG 331	Geography of Africa	4
GEOG 333	Appalachia: Land and People	4
GEOG 334	Historical Geography of the U.S.	4
GEOG 335	Geography of Latin America	4
GEOG 338	Geography of Southeast Asia	4

Two technique courses from the following:

GEOG 360	Cartography I	5
GEOG 361	Cartography II	5
GEOG 365	Air Photo Interpretation	4
GEOG 466	Principles of Remote Sensing	5
GEOG 467	Remote Sensing Applications	5
GEOG 468	Cartography III	5
GEOG 474	Application Development in GISc	4
GEOG 475	GIS Modeling and Simulation	4
GEOG 476	Field Methods	4
GEOG 478	Principles of GIS	5
GEOG 479	Geographic Information Analysis	5

At least 30 hours at the 300 level or above. No more than 5 hours each of 485 or 490/494 can count toward the 55 hours in geography. Hours in 486 do not count toward this total. Work with your advisor to develop a plan to complete the University General Education Requirements.

Majors are not permitted to take geography and required courses pass/fail.

Geography Minor Minor code OR4231

A minor in geography consists of a minimum of 28 hours including GEOG 101, 121, and at least three other courses at the 300 level or above.

Geography—Environmental Geography Major (B.S.) Special curriculum; major code BS4232

This program provides concentrated study of the earth's physical systems and human interactions with the environment. Environmental geography prepares students for careers in environmental planning, design, and restoration, as well as in environmental assessment and monitoring, resource management, natural areas preservation, and outdoor and environmental education. Students completing the program will develop competencies in a broad array of subjects spanning the natural and social sciences, as well as complementary analytical techniques. If you declare the Environmental Geography major, contact the Department as soon as possible so that you may be assigned an advisor.

You must meet all requirements for a geography major for a minimum of 55 hours, including these additional specifications:

GEOG 201	Environmental Geog.	4
GEOG 241	Global Issues	4

Two technique courses from the following:

GEOG 360	Cartography I	5
GEOG 361	Cartography II	5
GEOG 365	Air Photo Interpretation	4
GEOG 418	Biogeography Research	4
GEOG 466	Principles of Remote Sensing	5
GEOG 467	Remote Sensing Applications	5
GEOG 468	Cartography III	5
GEOG 474	Application Development in GISc	4
GEOG 475	GIS Modeling and Simulation	4
GEOG 476	Field Methods	4

GEOG 478	Principles of GIS	5
GEOG 479	Geographic Info Analysis	5
Hours over 300 must include four courses from this list:		
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 329	World Economic Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 357	Environmental Law	4
GEOG 358	Environ. Risk Assessment	4
GEOG 411	Adv. Physical Geography	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conserv.	4
GEOG 456	City and the Environment	4

General requirement

CHEM 121, 122, 123 or 151, 152, 153	Prin. of Chemistry Fund. of Chemistry	12 or 15
MATH 163A, B or 263A, B or 266A, B	Intro to Calculus Calculus Calculus w/Bio. Applications	7 or 8

Recommended electives

PHYS 201, 202, 203	Intro to Physics	15
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Choose at least three courses (portions of the Arts and Sciences natural sciences requirement) from either the Biological Sciences or Earth Sciences group below:

Biological Sciences

PBIO 109	Americans and their Forests	4
PBIO 114*	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 248	Trees and Shrubs	4
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 410	Plants and Soil	4
PBIO 426	Physiol. Plant Ecology	5
PBIO 435	Plant Population Biology	5
PBIO 436	Plant Community Ecology	5
PBIO 437	Ecosystem Ecology	4
BIOS 170,* 171, 172, 173	Intro to Zoology	14
BIOS 220*	Cons. and Biodiversity	4
BIOS 221	Microbes and Humans	3
BIOS 222	Microbes and Humans Lab	2
BIOS 275*	Ecology in the 21st Century	4
BIOS 375*	Animal Ecology	4
BIOS 429	Marine Biology	5
BIOS 431	Limnology	5
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4
BIOS 481*	Animal Conserv. Biology	4

*Credit is not awarded for both PBIO 114 and BIOS 170. Credit is not awarded for both BIOS 220 and BIOS 481, or for both BIOS 275 and 375.

Earth Sciences

GEOG 101	Intro to Geology	5
GEOG 211	Intro Oceanography	4
GEOG 215	Environmental Geology	4

GEOG 231	Water and Pollution	4
GEOG 312	Earth Materials and Resources	5
GEOG 330	Prin. of Geomorphology	5
GEOG 427	Water Geochemistry	4
GEOG 432	Origin and Classification of Soils	4
GEOG 439	Fluvial Geomorphology	4
GEOG 471	Advanced Env. Geology	4
GEOG 480	Prin. of Hydrogeology	4
GEOG 481	Groundwater Flow Modeling	4
GEOG 483	Field Hydrology	6

Social Sciences (portion of Arts and Sciences social sciences area requirement)**Required course:**

ECON 103	Prin. of Microeconomics	4
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Select two additional course from the following list:

ANTH 378	Human Ecology	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Resources Econ.	4
HIST 306	American Env. History	4
HIST 333	Oil and World Power	4
POLS 425	Environ. and Natural Resource Politics and Policy	4
POLS 426	Pol. of the Env. Movement	4
POLS 488	Public Dispute Resolution	4

Work with your advisor to develop a plan to complete the University General Education Requirements.

Geography—Environmental Prelaw (B.S.)**Special curriculum; major code BS4237**

The Geography—Environmental Prelaw Program is designed to prepare you for advanced study of environmental law. The goal of the program is to provide both a sound science background in environmental studies and a broad base of knowledge in the humanities and social sciences.

You must meet all requirements for a geography major for a minimum of 55 hours including these additional specifications/exceptions:

GEOG 201	Environ. Geography	4
GEOG 241	Global Issues	4
GEOG 357	Environmental Law	4

Only one technique course from the following list:

GEOG 365	Air Photo Interpretation	4
GEOG 418	Biogeography Research	4
GEOG 466	Remote Sensing	5
GEOG 476	Field Methods	4
GEOG 478	Principles of GIS	5

Hours over 300 must include 4 courses from this list:

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 325	Political Geography	4
GEOG 329	World Economic Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 358	Environ. Risk Assessment	4
GEOG 411	Adv. Physical Geography	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conservation	4
GEOG 456	City and the Environment	4

Other Requirements

Work with your advisor to develop a plan to complete the University General Education Requirements.

History and Political Science

Choose 2 courses from the following:

HIST 306	American Environmental History	4
HIST 309A	American Constitutional History, Part 1	4
HIST 309B	American Constitutional History, Part 2	4
HIST 333	Oil and World Power	4
POLS 301	Politics of Law	5
POLS 374	Great Jurists	4
POLS 401	American Constitutional Law	4
POLS 402	American Constitutional Law	4
POLS 404	Civil Liberties	4
POLS 409	Criminal Procedure	4
POLS 410	Public Policy Analysis	4
POLS 413	Administrative Law	4
POLS 420	Women, Law, and Politics	4
POLS 421	Politics of Sexuality	4
POLS 425*	Environmental and Natural Resource Politics and Policy	4
POLS 426	Politics of Contemporary Environmental Movement	4
POLS 455	International Law	4
POLS 477	Legal Theory and Social Problems	4
POLS 488	Public Dispute Resolution	4

Business Law and Economics

Choose 1 course from the following:

BUSL 255	Law & Society	4
BUSL 265	Law of Contractual Relations	4
BUSL 356	Law of the Management Process	4
BUSL 357	Law of Commercial Transactions	4
BUSL 385	International Business Law	4
HIST 306	American Env. History	4
ECON 103	Principles of Microeconomics	4
ECON 313	Economics of the Environment	4
ECON 314	Natural Resources Economics	4

Communication and Philosophy

Choose 1 course from the following:

COMS 103	Fundamentals of Public Speaking	4
COMS 215	Argumentative Analysis and Advocacy	4
COMS 351	Courtroom Rhetoric	4
PHIL 130	Introduction to Ethics	4
PHIL 240	Social and Political Philosophy	4
PHIL 335	Environmental Ethics	4

*strongly recommended

Natural Sciences

Choose at least 3 courses from Biological Sciences (except BIOS 217), Environmental and Plant Biology (except PBIO 217), and/or Geology.

General Requirements

CHEM 121, 122, 123 or CHEM 151, 152, 153	Prin. of Chemistry Fund. of Chemistry	12 or 15
MATH 163A, B or MATH 263A, B	Intro to Calculus Calculus	7 or 8

Geography—Geographic Information Science Major (B.S.) Special curriculum; major code BS4235

The goal of the geographic information science program is to provide a technical background for geographers interested in working with business, government, or planning agencies. The emphasis of the program is first, to develop a strong background in the field of geographic information science as practiced in the fields of cartography, remote sensing, and

quantitative methods; and second, to develop cognate skills in areas of computer science, economics, public administration, and the environment.

You must meet all requirements for a geography major for a minimum of 55 hours including these additional specifications:

Geographic Information Science Requirements

GEOG 360	Cartography I	5
GEOG 466	Remote Sensing	5
GEOG 471	Quantitative Methods	4
GEOG 478	Principles of GIS	5

Core Electives

Select any two additional courses from the list below:

GEOG 361	Cartography II	5
GEOG 365	Air Photo Interpretation	4
GEOG 467	Remote Sensing Applications	5
GEOG 468	Cartography III	5
GEOG 474	Application Development in Geographic Information Science	4
GEOG 475	GIS Modeling and Simulation	4
GEOG 479	Geographic Information Analysis	5

Applied and Topical Courses

Select any two courses from the list below:

GEOG 315	Landforms and Landscapes	4
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 326	Urban Geography	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 358	Environmental Risk Assessment	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environmental Impact Analysis	4
GEOG 447	Natural Resource Conservation	4
GEOG 456	City and the Environment	4
GEOG 476	Field Methods	4

Suggested Electives

CS 210	Programming in C	5
CS 220	Introduction to Computing	5
CS 230	Computer Programming I	5
CS 309	C++ for Non-majors	4

Certificate in Geographic Information Science (GIS)

Maps remain a fundamental means of geographic communication. The expanding role of the map and related digital information places a premium on the ability to interpret and analyze mapped information. To meet this expanded role, the advancement of Geographic Information Science (GIS) is seen as the important synthesis of traditional mapping with the more advanced tools of data modeling and analysis to provide new and enhanced information on geographic topics. The power in GIS is the use of spatial analysis techniques to analyze geographic information. The Undergraduate Certificate in GIS requires that students complete a rigorous interdisciplinary set of courses; in addition to "core" GIS and cartography courses, students are required to complete coursework in statistics, computer applications, programming, database management, as well as a capstone internship project utilizing their GIS skills. The Certificate is open to all students with the exception of Geography majors. Geography students wishing to pursue advanced training in GIS should consider the Geography-GIS major.

Prerequisite Courses (2 courses)**Statistics**—Choose **one** course from the following (3–5 hours)

ECON 381	Introduction to Economic Statistics and Econometrics	4
ISE 304	Applied Engineering Statistics	3
GEOG 271	Intro to Statistics in Geography	4
GEOL 205	Statistical Methods in Geology	4
MATH 250	Intro to Probability and Statistics	4
PSY 221	Statistics for Behavioral Sciences	5

Computer Applications—Choose **one** course from the following (3–4 hours)

BMT 200	Introduction to Business Computing	4
CS 120	Computer Literacy	4
CTECH 125	Introduction to Computers	4
GEOG 268	GIS and Mapping Sciences	4
IT 103	Computer App. in Industrial Technology	4
MIS 201	Introduction to Microcomputers	3

Core Courses (3 courses)

GEOG 360	Cartography I	5
GEOG 466	Principles of Remote Sensing	5
GEOG 478	Principles of GIS	5

Support Courses (2 courses)**Programming**—Choose **one** course from the following (5 hours):

CS 210	Programming in C	5
CS 230	Computer Programming I	5
GEOG 474	Application Development in GISc	4

Database Management—(4 hours)

MIS 235	Advanced Microcomputer Database Applications	4
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Capstone Course (1 course)

GEOG 485A	GIS Certificate Internship	5
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**Geography—Meteorology Major (B.S.)
Special curriculum; major code BS4238**

The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics can prepare you for graduate training in meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see departmental listings in this section). If you choose the geography emphasis, contact the Department of Geography for advising. The major in geography requires a minimum of 45 hours.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Physical Geography	5
GEOL 101	Intro to Geology	5
MATH 263A, B, C	Calculus (or advanced placement)	12
	English Composition	5

Sophomore

GEOG 201	Environ. Geography	4
GEOL 211	Oceanography	4
MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observ. in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2
PHYS 311, 312	Mechanics	8

PHYS 411	Thermodynamics	4
	English Composition	4

Senior

GEOG 406	Intro to Synoptic Meteorology	5
GEOG 407	Adv. Synoptic Meteorology	5
PHYS 414	Dynamic Meteorology I	4
PHYS 415	Dynamic Meteorology II	4

Two courses in computer programming or quantitative methods (see advisor for approved list) and:

Geography emphasis requirements

GEOG 121	Human Geography	4
GEOG 315 or GEOG 316 or GEOG 411	Landforms and Landscape Biogeography Adv. Physical Geography	5 or 4
GEOG 360 or GEOG 365	Cartography I Air Photo Interpretation	4

Work with your advisor to develop a plan to complete the University General Education Requirements.

**Geography/Meteorology Minor
Minor code OR4233**

A minor in meteorology consists of a minimum of 28 hours including GEOG 101, 121, 302, 304, 305, 406, 407.

**Geography—Urban Planning Major (B.S.)
Special curriculum; major code BS4234**

This special curriculum is designed to provide some of the basic academic requirements for a career in urban planning in the United States. While working toward a conventional B.S. in geography, you will take certain required courses and select from an approved list of electives (both inside and outside the Department of Geography) that emphasize legal, social, political, and historical aspects of the planning profession. These courses simultaneously fulfill some of the department and college requirements. The distinctiveness of the curriculum comes from the direction you are given and the preselection of courses in which you may enroll; these elements separate the special curriculum from the general geography program. To enroll in the preparation for urban and regional planning major, contact the chair of the Department of Geography as soon as possible, preferably not later than the beginning of your sophomore year.

The majority of job opportunities for planners are with government agencies at the local, state, and federal levels. Their activities largely concern administration and implementation of federal programs, and continued funding depends upon congress. While a bachelor's degree can provide initial entry into the profession, job descriptions usually specify a master's degree. It is recommended that you continue toward such a degree, which involves an additional two years of study and is offered by more than 70 American universities.

You must meet all requirements for a geography major with these additional specifications:

GEOG 326	Urban Geography	4
GEOG 350	Land Use Planning	4
GEOG 456	The City & the Environment	4

Two of the following:

GEOG 327A	Social Geographics	4
GEOG 329	World Economic Geography	4
GEOG 353	Environmental Planning	4
GEOG 455	Evolution of Planning	4

Choice of two technique courses from the following:

GEOG 360	Cartography I	5
GEOG 361	Cartography II	5
GEOG 365	Air Photo Interpretation	4
GEOG 466	Remote Sensing	5

GEOG 468	Cartography III	5
GEOG 478	Principles of GIS	5
Three of the following:		
GEO 101	Intro to Geology	5
GEO 231	Water and Pollution	4
GEOG 315 or GEO 330	Landforms and Landscapes Prin. of Geomorphology	5
GEOG 316	Biogeography	4
GEOG 417	Landscape Ecology	4

Other Departments (two courses)

Except for MGT 202, these courses currently fulfill the social sciences area requirement of the College of Arts and Sciences.

ECON103 or ECON 303	Prin. of Microeconomics Microeconomics	4
ECON 104 or ECON 304	Prin. of Macroeconomics Macroeconomics	4
HIST 312	U.S. Urban History	4
MGT 202	Management	4
POLS 320	Urban Politics	4
SOC 424	Urban Sociology	4

Work with your advisor to develop a plan to complete University General Education Requirements.

Electives

Try to take the remaining credit hours necessary for graduation from the following:

BUSL 442	Law of Property and Real Estate	4
ECON 213	Current Economic Prob.	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 360	Money and Banking	4
HIST 317A	Ohio History to 1851	4
HIST 317B	Ohio History Since 1851	4
POLS 101	American Nat. Govt.	4
POLS 102	Issues in Amer. Politics	4
POLS 210	Princ. of Public Admin	4
POLS 408	Urban Public Admin.	4
POLS 410	Public Policy Analysis	4
POLS 424	Intergovernmental Relations in the U.S.	4
POLS 425	Environ. and Natural Resource Politics and Policy	4
PSY 335	Environmental Psych.	5
SOC 101	Intro to Sociology	5
SOC 201	Contemp. Social Problems	4
SOC 230	Sociology of Poverty	4
SOC 425	Sociology of Aging	4
SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an Inst.	4
SW 395	Aging in the Welfare State	4

Outside the College of Arts and Sciences

EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 320	Shelter Environments	4
HREC 310	Prog. Planning and Facil. for Recreation	5
COMS 205	Group Discussions	4
COMS 304	Prin. and Tech. of Interviewing	4
REAL 101	Real Estate Prin. and Prac.	4
REAL 201	Real Estate Appraising	4
REAL 204	Real Estate Finance	4

Geological Sciences**Geological Sciences Major (B.S.)****Major code BS3321**

Required courses for the B.S. degree in minimum preparation for a professional career in geological sciences or entry into graduate school include 62 hours of geology:

A. Requirements in Geological Sciences**Introductory course (5 credit hours)**

Choice of:

GEO 101	Intro to Geology	5
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Or

GEO 202	Introductory Geology Lab (1)	
Plus one of the following: GEO 120, 130, 170, 211, 215, 221, 231 (4)		

And:

Core Courses (57 credit hours)

GEO 205	Statistical Methods in Geology	4
GEO 255	Historical Geology	4
GEO 315	Mineralogy	5
GEO 320	Petrology	4
GEO 330	Principles of Geomorphology	5
GEO 340	Prin. of Invertebrate Paleontology	4
GEO 350	Stratigraphy-Sedimentology	4
GEO 360	Structural Geology	5
GEO 420	Petrography	5
GEO 446	Earth Systems Evolution	4
GEO 466	Geodynamics	4
GEO 475A	Field Geology I	4
GEO 475B	Field Geology II	5

• Three additional 400 level classes (or a senior thesis and two 400-level electives) (12 credit hours)

B. Extradepartmental Requirements

Students must take both Chemistry and Math (20–23 credit hours)

CHEM 121, 122, 123	Principles of Chemistry I, II, III	12
or CHEM 151, 152, 153	Fundamentals of Chemistry I, II, III	or 15
MATH 263A, 263B	Calculus I, II	8
or MATH 266A, 266B	Calculus w/ Applications to Biology I, II	or 8

Students may take either of the Physics or Biology options below (10–15 credit hours)

PHYS 201, 202	Introduction to Physics	10
or 251, 252, 253	General Physics	10–15
or 251, 202		
or BIOS 170, 171, 172	Introduction to Zoology	13

*Discuss the selection of an appropriate physics sequence with your advisor. PHYS 203 may be required for some graduate programs.

Geological Sciences Major (B.A.)**Major code BA3321**

Requirements for the B.A. degree are designed for students interested in applying a general understanding of the geological sciences to such fields as education, library science, technical writing, or other areas where a general knowledge of earth science is desired. They include 52 hours of geology:

A. Requirements in Geological Sciences**Introductory course (5 credit hours)**

Choice of:

GEO 101	Introducton to Geology	5
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Or

GEO 202	Introductory Geology Lab (1)	
Plus one of the following: GEO 120, 130, 170, 211, 215, 221, 231 (4)		

And:

Core Courses (26 credit hours)

GEO 205	Statistical Methods in Geology	4
GEO 255	Historical Geology	4
GEO 330	Principles of Geomorphology	5
GEO 340	Prin. of Invertebrate Paleontology	4

GEOL 350	Stratigraphy-Sedimentology	4
GEOL 360	Structural Geology	5

Students may take either of the following two options for this part of the core course requirement (9 credit hours).

GEOL 315 And GEOL 320	Mineralogy Petrology	5 4
Or		
GEOL 312 And GEOL 211	Earth Materials and Resources Introduction to Oceanography	5 4

Capstone Course (4 credit hours)

GEOL 466 Or GEOL 446	Geodynamics Earth Systems Evolution	4 4
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at least two additional courses at the 400 level (8 credit hours)

B. Extradepartmental Requirements (18 credit hours)

CHEM 121, 122	Principles of Chemistry I, II	8
PHYS 201	Intro to Physics	5
MATH 115	Precalculus	5

Consult the departmental undergraduate advisor regarding appropriate minors to be combined with the B.A. degree.

Geological Sciences Minor**Minor code OR3321**

A minor in geological sciences requires a minimum of 25 hours of coursework in geological sciences to include 101, 255, and a minimum of three courses at the 300–400 level.

Geological Sciences—Environmental Geology Major (B.S.) Special curriculum; major code BS3323

The preprofessional program in environmental geology is designed to provide you with broad training in preparation for a career in conservation, natural resource management, land-use planning, or environmental quality control. In most instances, you should anticipate further training at the graduate level. Consult with the undergraduate advisor in the Department of Geological Sciences before planning your schedule of coursework.

The courses listed below constitute the departmental requirements for this program. Schedule additional courses to fulfill Arts and Sciences and University General Education Requirements.

Major courses include 54 hours of geology:**Introductory course (5 credit hours)****Choice of:**

GEOL 101	Introduction to Geology	5
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Or

GEOL 202	Introductory Geology Lab (1)	
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Plus one of the following: GEOL 120, 130, 170, 211, 215, 221, 231 (4)

And:**Core Courses (52 credit hours)**

GEOL 205	Statistical Methods in Geology	4
GEOL 255	Historical Geology	4
GEOL 315	Mineralogy	5
GEOL 320	Petrology	4
GEOL 330	Principles of Geomorphology	5
GEOL 340	Prin. of Invertebrate Paleontology	4
GEOL 350	Stratigraphy-Sedimentology	4
GEOL 360	Structural Geology	5
GEOL 427	Water Geochemistry	4
GEOL 429	Contaminant Geochemistry	4
GEOL 480	Principles of Hydrogeology	4
GEOL 475A	Field Geology I	4
GEOL 475B	Field Geology II	4

Natural Science courses (22–26 credit hours)**Option 1 (22 credit hours)**

BIOS 220	Conservation and Biodiversity	4
BIOS 221, 222	Microbes and Humans	6
CHEM 121, 122, 123	Principles of Chemistry I, II, III	12

Option 2 (26 credit hours)

CHEM 151, 152, 153	Fundamentals of Chemistry I, II, III	15
CHEM 301, 302	Organic Chemistry	3
MATH 263A, 263B	Calculus I, II	8
Or		
MATH 266 A, 266B	Calculus w/ Applications to Biology I, II	8
Any of the Physics or Biology options below (10–15 credit hours)		
PHYS 201, 202	Intro to Physics	10
Or		
PHYS 251, 252, 253	General Physics	15
Or		
PHYS 251, 202	Physics	10
Or		
BIOS 170, 171, 172	Introduction to Zoology	13

Social Science courses (13 credit hours)

ECON 313 or ECON 314	Economics of the Environment Natural Resource Economics	4
GEOG 357	Environmental Law	4
GEOG 478	Principles of Geographic Info. Systems	5

A minimum of two courses from the following list:

BIOS 376	Field Ecology	4
BIOS 431	Aquatic Ecology	5
CHEM 325	Instr. Methods of Analysis	4
CHEM 431	Chemical Separation Methods	3
CHEM 432	Chem. Instrumentation and Electrochemistry	3
CHEM 433	Spectrochemical Analysis	3
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 466	Principles of Remote Sensing	5
GEOG 467	Remote Sensing Applications	5
GEOL 432	Origin and Classification of Soils	4
GEOL 453	Physical Limnology	4
GEOL 476	Subsurface Methods	4
GEOL 481	Groundwater Flow Modeling	4
GEOL 485	Intro to Applied Geophysics	4
PBIO 410	Plants and Soils	4
PBIO 425	Physiological Plant Ecology	5

Social Science

ECON 313	Econ. of the Environment	4
ECON 314	Natural Resource Economics	4
ECON 335	Economics of Energy	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 365	Air Photo Interpretation	5
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conservation	5
GEOG 475	GIS Modeling and Simulation	4
GEOG 479	Geographic Information Analysis	5
POLS 425	Environ. and Natural Res. Politics and Policy	4

German

See Modern Languages.

Gerontology Certificate Program

The Colleges of Arts and Sciences and Health and Human Services jointly sponsor the undergraduate Gerontology Certificate Program for students in any major program within

the University who want to gain knowledge and skills for a career in working with the elderly. Completion of this program is officially recognized on your transcript upon graduation.

See the College of Health and Human Services section for Gerontology Certificate Program requirements.

Global Leadership Center

For information about the Global Leadership Center, refer to the program description in the College of Communication section or visit <http://www.ohio.edu/glc/>.

Global Studies in Plant Biology

One of only a few programs in the United States to integrate study abroad with opportunity for research by undergraduate natural science majors. Although the ecological and geographic theme will change from year to year, the program is designed to spotlight physiographic regions and their plant life through a series of three interrelated courses: an introductory seminar, an intensive international field course, and a laboratory research course. Contact the Department of Environmental and Plant Biology, or visit the Global Studies in Plant Biology Web site: <http://oak.cats.ohio.edu/~ballardh/globalstudies/>.

Greek

See Classics and World Religions

History

History Major (B.A.)

Major code BA4211

The major requirement for the B.A. degree consists of a minimum of 56 hours. This total includes:

132	Intro to Non-Western History to 1750	4
133	Intro to Non-Western History Since 1750	4
200	Survey: U.S. History, 1600-1865	4
201	Survey: U.S. History, 1865-present	4

8 hours from either of the following series:

(courses selected must be "adjacent," e.g., 103 and 102, or 122 and either 121 or 123)

101	Western Civ. in Modern Times (Renaissance-1648)	4
102	Western Civ. in Modern Times (1648-1848)	4
103	Western Civ. to Modern Times (1848-Present)	4 or
121	Western Heritage: Classical	4
122	Western Heritage: Medieval	4
123	Western Heritage: Modernity	4

32 hours at the 300–400 level, including

301J	Historical Research and Writing	4
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(You are strongly urged to complete 301J early in your junior year.)

Select ONE of the following areas and complete three courses (12 hrs). ALSO, complete four additional courses (16 hrs) by choosing TWO courses from EACH of the remaining areas.

Europe: Must include one course on material predominantly before 1500, one from 1500-1800, and one course after 1800.

Non-western (Latin America, Middle East, Africa, Asia): Must include one course on material predominantly before 1800, one from the 19th century, and one course from the 20th century.

North America (Canada, United States): Must include one course before 1800, one from the 19th century, and one course from the 20th century.

With the help of your advisor, you will need to develop a coherent plan of study. The emphasis will be to select courses that inter-relate within a particular area. Your advisor will be critical to your success in choosing an appropriate plan of study.

Students with g.p.a.'s of 3.0 and above will be informed about internship opportunities or encouraged to write a senior honors thesis.

History Minor

Minor code OR4211

A minor in history consists of a minimum of 28 hours, including at least 8 hours at the 100–200 level and at least 16 hours at the 300–400 level.

History Pre-Foreign Service Major (B.A.)

Special curriculum; major code BA4212

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

History—Prelaw (B.A.)

Special curriculum; major code BA4214

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see Law in this section.

History—Pretheology Major (B.A.)

Special curriculum; major code BA4213

If you plan to enter a theological seminary or to do graduate study in religion, it is recommended that you take a broad program of undergraduate courses, including the following (with minimum credit suggested in each area): world religions (12); courses on the texts and history of religions (15); English composition and literature, and world literature (21); history, including HIST 354A, 354B, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements of the B.A. degree and the University General Education Requirements. It is advisable to major in world religions, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major also is available from the Departments of English and Philosophy.

Center for International Studies

Jointly administers a Bachelor of Arts in International Studies with the College of Arts and Sciences. For non-majors the center offers certificates in:

African Studies

Asian Studies

European Studies

Latin American Studies

International Studies

For additional information on International Studies, see the Center for International Studies section.

The Bachelor of Arts in International Studies (BAIS) seeks to prepare students for international competence, which involves understanding other peoples and societies well enough to be able to work effectively on a broad range of common problems. It calls for the education and training to become proficient in a language other than their own and to understand the history, culture, goals, aspirations and worldview of the people speaking that language.

The program of study leading to the Bachelor of Arts in International Studies aims to provide students with the skills to interact competently with people from other cultures through the development of: (a) cross cultural literacy—the direct experience of another culture via a study abroad experience, the achievement of a high level of proficiency in a second language, and the ability to compare and contrast issues in different regions and cultures of the world; (b) environmental literacy—the study of a world region outside the United States (Africa, Asia, Europe, Latin America) in depth through its history, geography, politics, societies, economics, fine and performing arts, and popular culture with special attention to the issues of gender, class, ethnicity, and race; and (d) critical thinking—expressed both in writing and orally in English and also in a second language.

Throughout this program of study, students are also expected to develop information processing skills which enable them to seek, sort, analyze, and evaluate information as well as apply information to the solution of problems.

Admission to the Major

Students who satisfy Arts and Sciences admission criteria are admitted as “pre-majors” (major code ND4404) to work on the following major prerequisites:

- 1 Complete a three-course sequence that includes POLS 250—International Relations, ANTH 101—Cultural Anthropology, and one of the following: INST 103—Asian Studies, INST 113—African Studies, INST 118—European Studies, or INST 121—Latin American Studies) with a B-average for the three classes.
- 2 Students must receive a B average for the first three language courses completed at Ohio University. The language chosen must match their area of study: Swahili and French for Africa; Chinese, Indonesian, or Japanese for Asia; French, German, Russian, or Spanish for Europe; and Spanish for Latin America. You may contact the BAIS coordinator to petition the BAIS committee to receive approval to use languages other than those listed above to satisfy the language requirement.

Requirements for the Undergraduate Major in International Studies

The Bachelor of Arts in International Studies is an interdisciplinary major within the College of Arts and Sciences, and requires the completion of all Arts and Sciences College requirements. Major requirements consist of a minimum of 61 quarter hours of course work, including 33 hours in courses of a broad cross-cultural or international nature and 28 hours on a single world region.

Language Requirement

To graduate with a Bachelor of Arts in International Studies, students must demonstrate proficiency in reading, speaking, and in some cases, writing a language related to their area of concentration. To determine language proficiency,

students must take an oral proficiency examination and attain the level specified for that language. The language chosen must match their area of study: Swahili, French, and Arabic for Africa; Chinese, Indonesian, or Japanese for Asia; French, German, Russian, or Spanish for Europe; and Spanish for Latin America. Students may contact the BAIS coordinator to petition the BAIS committee to receive approval to use languages other than those listed above to satisfy the language requirement.

Education Abroad Requirement

Students majoring in International Studies are required to have a minimum of one quarter of education abroad in the area of the world in which they are concentrating and where their language of study is spoken. The primary goals of education abroad are to increase language competency and to gain exposure to the culture of the world region on which the student is concentrating. It is strongly recommended that students study abroad after completing the equivalent of at least two years of language study. Before going abroad, students must complete a Foreign Study checklist in consultation with the BAIS coordinator and the Office of Education Abroad.

International Studies (33 hrs)

ANTH 101*	Cultural Anthropology
POLS 250*	International Relations

Comparative/International Studies

3-courses out of one of the following areas:

A. Comparative Institutions and Ideologies

AAS 364	Comparative Study in Injustice
ANTH 350	Economic Anthropology
ANTH 351	Political Anthropology
ANTH 357	Anthropology of Religion
CLWR 181	Intro to Religion
GEOG 336	Geography of Religious Space and Place
PHIL 440	Contemporary Social
POLS 340	Politics of Developing Areas
POLS 490**	

B. Comparative Cultures

ANTH 340	Applied Anthropology
ANTH 345	Gender in Cross-Cultural Perspectives
ANTH 350	Economic Anthropology
ANTH 351	Political Anthropology
ANTH 353	Anthropology of Violence and Peace
ANTH 357	Anthropology of Religion
ANTH 376	Culture Contact and Change
FILM 421F	International Film
MUS 369R	Intro to World Music

C. Business

BA 385	Multinational Business
BUSL 385	International Business Law
MGT 484	International Comparative Management

D. Political Economy (choose any three)

ANTH 350	Economic Anthropology
ANTH 376	Culture Contact and Change
ECON 312F	Economics of Poverty
ECON 350	Economic Development
GEOG 329	World Economic Geography
HIST 327	Slavery in the Americas
POLS 490**	
WS 410	Global Feminism
WS 411	Women and Globalization

E. International Relations

GEOG 131	Global Developing World
POLS 455	International Law
POLS 456	International Organizations
POLS 490**	

Environmental Literacy**3 courses out of one of the following areas:****A. Ecology/Conservation Biology**

BIOS 220	Conservation and Biodiversity
BIOS 275	Animal Ecology
GEOG 417	Landscape Ecology
PBIO 209	Plant Ecology
PBIO 322	Tropical Plant Ecology

B. Water, Land, and the Oceans

GEOG 201	Environmental Geography
GEOG 315	Landforms and Landscapes
GEOG 417	Landscape Ecology
GEOL 211	Intro to Oceanography
GEOL 231	Water and Pollution
GEOL 303	Marine and Tropical Field Studies
GEOL 330	Principles of Geomorphology

C. Environment and Society

ANTH 378	Human Ecology
GEOG 241	Global Environmental Issues
GEOG 321	Population Geography
GEOG 353	Environmental Planning
ECON 313	Economics of the Environment

Area Studies (28 hrs)**Options: Africa, Asia, Europe, Latin America.****Africa (B.A.)****Special curriculum; major code BA4405****Select 28 hours in a minimum of three disciplines. The 28 hours includes INST courses, but INST is not counted as one of the three disciplines.**

AAS 250	African American Arts and Culture
ANTH 351	Political Anthropology
ANTH 357	Anthropology of Religion
ANTH 370**	
ANTH 381	Cultures of Sub-Saharan Africa
CLWR 311	Islam (2C)
CLWR 471	African Religions
DANC 495D	African Dance
ECON 312	Economics of Poverty
ECON 350	Economics of Development
EDCS 205	Learning from Non-Western Cultures
FR 454	Francophone Lit. of Sub-Saharan Africa, Maghreb, and the Caribbean
GEOG 331	Geography of Africa I
HIST 332	History Women Middle East
HIST 335 A/B	Survey of Middle East History
HIST 337A	Middle East 600–1500
HIST 337B	Middle East 1500–1800
HIST 337C	Middle East Since 1800
HIST 338	History of West Africa
HIST 338A	History of East Africa
HIST 341B	Africa During the Slave Trade
HIST 341C	Modern Africa, 1890–Present
HIST 342A/B	South Africa
HIST 441	Studies in African History
INST 113*	Modern Africa
MUS 369S	OU African Ensemble
PHIL 440	Contemporary Social Philosophy

PHIL 478	African Philosophy
POLS 340	Politics of Developing Areas
POLS 441	Govt. and Politics of Africa
POLS 463	The U.S. and Africa
THAR 473	Theatre History Topic (only when Africa focus)

Asia (B.A.)**Special curriculum; major code BA4406****Select 28 hours in a minimum of three disciplines. The 28 hours includes INST courses, but INST is not counted as one of the three disciplines.**

ANTH 370**	
ANTH 380	Cultures of South Asia
AH 341	History of Chinese Art
AH 342	Art of 20th Century China
ANTH 385	Cultures of SE Asia
ANTH 386	Problems in Southeast Asian Anthropology
CLWR 311	Islam
CLWR 321	Hinduism
CLWR 331	Buddhism
CLWR 341	Taoism
CLWR 442	Confucianism
ECON 473	Economics of SE Asia
FILM 473	International Horror Film (only when taught by Adam Knee)
GEOG 338	Southeast Asia
HIST 246	Modern Asia
HIST 345A/B/C	Southeast Asian History
HIST 346E	Modern China since 1911
HIST 348A	Traditional Japan
HIST 348B	Modern Japan
HIST 449	Studies in Modern E Asian History
ILL 345	Modern Literature of SE Asia
INST 103*	Modern Asia
INST 350	Focus on Malaysia
INST 490	Tun Razak Seminar
JPC 250	Intro to Japanese Culture
JPC 450	Japan: A Sociocultural Interpretation
JPC 348	Readings in Japanese Culture
POLS 490**	

Europe (B.A.)**Special curriculum; major code BA 4407****Select 28 hours in a minimum of three disciplines. The 28 hours includes INST courses, but INST is not counted as one of the three disciplines.**

ANTH 372**	
AH 327	Art of the 19th Century
ECON 353	European Economic History
FR 345	Business French
FR 348	French Civilization and Culture
FR 354/55/56	Intro to Reading French Lit.
FR 433	20th Century French Lit.
FR 434	French Through Film
FR 435**	Proseminar
GEOG 330	West European Geography
GER 348	German Civ. and Culture
GER 355/56	Intro to German Lit.
GER 429	20th Century German Lit.
GER 433	German Lyric Poetry
GER 441	Stylistics
HIST 265A	Nazi Germany
HIST 360A	Women in Early Mod. Europe
HIST 360C	Women in European History

HIST 362A/B	Europe 1814–1914
HIST 364A	Europe Between the Wars
HIST 364B	Contemporary Europe
HIST 366A/B	France
HIST 368A/B	Germany in 20th Century
HIST 372C	The Balkans
HIST 374A	Balance of Power
HIST 374B	History of International Diplomacy 1914-1939
HIST 375	World War I
HIST 377	Holocaust
HIST 382A/B/C	Russia
HIST 382D	The USSR in World War II
HIST 383B	Modern Poland
HIST 392C	20th Century Britain
HIST 392D	The British Empire
HIST 396A/B	European Intellectual and Cultural History
HIST 463	Studies in 19th Century Europe
HIST 467	Studies in Modern France
HIST 483	Russian and Soviet History
ILML 334	Portuguese and Spanish Lit in English
ILML 335A	Italian Literature in English
ILML 336B	Spanish Lit in English (when topic is literature from Spain)
ILML 337A	French Lit. in English
ILML 338A/B	German Lit. in English
ILML 338C	German Lit. in English
ILML 339A/B	Russian Lit. in English
ITAL 341	Advanced Conversation and Composition
ITAL 342	Advanced Conversation and Composition
ITAL 348	Italian Civilization and Culture
INST 118*	Europe
PHIL 444	Philosophy of Marxism
PHIL 458	Contemporary European Philosophy
POLS 331	Politics in Western Europe
POLS 333	Politics in Eastern Europe
POLS 432	Policy Making in Russia
POLS 433	Russian Foreign Policy
POLS 438	Govt. and Pol. of Germany
POLS 439	Politics in France
POLS 490**	
RUS 348/49	Russian Civilization and Culture
RUS 355/56	Intro to Russian Literature
RUS 429	Russian Lit of the Soviet Era
RUS 441	Stylistics
SPAN 345	Business Spanish
SPAN 348	Spanish Civ and Culture
SPAN 438	Dialectology
SPAN 354/55/56	Dramatizations of the Hispanic World (when focus is peninsular)
SPAN 425	19th Century Spanish Literature I
SPAN 427	19th Century Spanish Literature II
SPAN 432	20th Cent. Spanish Lit
SPAN 438	Hispan. Dialect and Sociolin
SPAN 439	Modern Spanish Usage
SPAN 441	Stylistics
SPAN 453	Drama of the Golden Age
SPAN 455	Novel of the Golden Age
SPAN 458	Don Quijote de la Mancha

Latin America (B.A.)**Special curriculum; major code BA 4408****Select 28 hours in a minimum of three disciplines. The 28 hours includes INST courses, but INST is not counted as one of the three disciplines.**

AH 331	Pre-Columbian Art
ANTH 367	South American Prehistory
ANTH 370	Mexican/Cen American Prehistory
ANTH 372**	
ANTH 383	Cultures of Latin America
ECON 474	Economics of Latin America
ILML 334	Portuguese and Brazilian Lit in English (when topic is Brazilian literature)
ILML 336	Span. Lit. in English (when topic is Latin American literature)
GEOG 335	Latin America
HIST 323A/B/C	Latin America
HIST 325	U.S.–Latin American Relations
HIST 327	Slavery in the Americas
HIST 424	Studies in the History of U.S.-Latin American Relations
HIST 426	Dictatorships in Lat. Amer.
HIST 427	Studies in Recent Lat Amer History
ILML 336	Spanish Lit. in English (when topic is Latin American Lit.)
INST 121*	Latin America Survey
POLS 434	Government and Politics of Latin America
POLS 435	Revolutions. in Latin America
POLS 479	Latin American Political Thought
POLS 490**	
SPAN 345	Business Spanish
SPAN 349	Spanish American Civ. and Culture
SPAN 350	Mexican Civilization and Culture
SPAN 351	Mayan Civilization and Culture
SPAN 352	Yucatecan Civilization
SPAN 354/55/56	Dramatizations of Hispanic World (when topic is Latin American literature)
SPAN 438	Dialectology
SPAN 439	Modern Spanish Usage
SPAN 441	Stylistics
SPAN 443/4	Survey of Spanish-American Lit
SPAN 447	Themes from Spanish-American Prose
SPAN 448	Cont Spanish-American Lit

*Required course

**Check with department prior to registering

International Studies Certificate Program

The Center for International Studies offers certificates in African, Asian, European, and Latin American Studies for students who wish to add an international dimension to their major, or who are interested in an international career or graduate work in area studies. The certificate is noted on your transcript upon graduation.

You must take an introductory interdisciplinary area studies course (INST 103, 113, 118, or 121) appropriate to the certificate you are pursuing and achieve an overall g.p.a. of 2.5 in courses taken toward the certificate.

Additional requirements for the European or Latin American Certificate are: five courses relating to Europe or Latin America in a minimum of three disciplines, study of a relevant language through the intermediate level, and an overall g.p.a. of 2.5 in courses taken toward the certificate.

Additional requirements for the Asian or African Certificate are: eight courses in either of two options: 1) Three courses must be in an African or Asian Language and the other five, in a minimum of three disciplines, must relate to Africa or Asia. 2) The eight courses must relate to Africa or Asia with no language requirement.

Italian Studies Certificate Program

The Italian Studies Certificate is an interdisciplinary and complementary course of study open to students from any undergraduate degree. The aim of the Italian Studies Certificate is to provide an introduction to the rich and varied culture of Italy by exploring it through a variety of disciplines and subjects. These subjects include literature, history, archaeology, art, cinema, and political thought. Knowledge of the Italian language, both written and spoken, is important for an understanding of Italian culture and is therefore a core element to earning the certificate. The certificate requires 24 credits, which you must select from the following departments: Modern Languages, History, Classics, and Art History.

Required core classes:

ITAL 341	Adv. Italian Conversation and Composition	4
ITAL 342	Adv. Italian Conversation and Composition	4
ILML 335	Topics in Italian Lit/Film (in translation)	4
		Total: 12

Electives:

You must choose three elective courses from the following two groups (at least one course from each group) for a total of 12 credits.

Group 1:

AH 323	Italian Renaissance Art	4
AH 425	High Renaissance and Mannerism	4
AH 300X	European Art	4
AH 323X	Italian Renaissance Art	4
AH 326X	The Baroque	4
AH 340X	Art and Ideas in Painting	4
AH 425X	High Renaissance	4
ILML 335	Various Topics in Italian Literature and Film, repeatable for credit	4
HIST 356A	The Italian Renaissance	4

Group 2:

CLAR 212	Roman Archaeology	4
CLAR 362	The Archaeology of Roman Cities	4
CLAR 352X	Ancient Rome: Development of the City	4
CLAS 254	Rome Under the Caesars	4
CLAS 401 or CLAS 401X	Life of the Romans	4
HIST 329C	Ancient Rome	4

Although they do not count toward certificate requirements, you are encouraged to select a Tier III from the following list:

404A	Reconstructing Roman Slavery	4
410B	The Age of Michelangelo	4
496M	The Renaissance in Machiavelli	4

Latin

See Classics and World Religions.

Latin American Studies

See International Studies.

Preparation for Law

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. You may complete a major in the area of your principal interest. Select courses from as many of the following as possible: English composition and literature and American literature; history, especially for English and American; political science; economics; sociology; a laboratory science; mathematics; philosophy, including ethics and logic; accounting; psychology; and a foreign language. Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended.

The Departments of Economics, English, History, Philosophy, Political Science, and Sociology and Anthropology designate prelaw faculty advisors. These advisors have information about the Law School Admission Test and can supply applications. See the respective department listings in this section for specific information about major requirements. A further opportunity is the environmental prelaw major offered by the Department of Geography. See Geography—Environmental Prelaw for information. The Department of Philosophy offers an opportunity to prepare for the study of law through a program emphasizing logic and the analysis of social, political, and legal thought. See Philosophy—Prelaw Major. The Prelaw program in the Department of Political Science centers on the Law, Justice, and Political Thought track which offers a liberal arts overview for undergraduate prelaw students, as well as those studying political theory and legal institutions from a broader perspective. See Political Science—Prelaw major.

The Ohio Supreme Court has ruled that to enter law school you must be able to show possession of an undergraduate degree from an approved college if you wish to take the Ohio Bar Examination. Law schools in the state of Ohio require the degree of all entering students, regardless of the state in which they plan to take the bar examination.

The degree *in absentia* privilege is available if you do not plan to seek admission to an Ohio law school. After you have completed 144 quarter hours at Ohio University with a g.p.a. of 2.0 or above on all hours attempted, and have satisfied the requirements for a B.A. or B.S., you may obtain the degree after completing, at an accredited school of law, a full year's work of the quality prescribed for a bachelor's degree at Ohio University, provided you are eligible for advancement without condition to the second year of law school. Before entering the school of law, you must secure a statement in writing from the dean giving you the *in absentia* privilege.

Linguistics

Linguistics Major (B.A.)

Major Code BA5290

The requirements for a major in linguistics consist of **45 credit hours beyond 270; 30 hours must be in core linguistics courses, and 15 hours are to be chosen from other linguistics courses and clustered to form a concentration.** Possible concentrations include teaching English as a second or foreign language, the use of computers in language teaching, sociolinguistics, psycholinguistics, and theoretical linguistics. In addition, courses in the social sciences, humanities, education, communications, and computer science are recommended as external electives. Knowledge of a foreign language equivalent to three years of college-level study is required; one language may be studied for all three years, or a different language may be studied in the third year.

Transfer of credits from other programs or departments at Ohio University will be accepted upon approval of the department chair. Required core courses are the following:

LING 275 or LING 280	Intro. to Lang. and Culture Language in America	4 4
LING 350 or LING 351	Intro. to Linguistics Fundamentals of Linguistics	5 5
LING 330 or LING 475	Intro. to Psycholinguistics Theories of Lang. Learning	4 4
LING 460	Phonology	5
LING 470	Syntax	4
LING 485	Historical Linguistics	4
LING 495	Directed Research	4

To concentrate in teaching English as a second or foreign language, you must also take:

LING 410	Lang. Teaching Practicum	3
LING 475	Theories of Lang. Learning	4
LING 480	TEFL Theory and Methods	4
LING 482	Materials in TEFL	4

Linguistics Minor Minor code OR5290

A minor in linguistics requires a minimum of 24 hours, with at least two courses at the 400 level. Areas of specialization include general linguistics, sociolinguistics, and teaching English as a second language.

Pre-service Teacher Preparation in TEFL

Linguistics also offers a five-course module as pre-service teacher preparation in TEFL (Teaching English as a Foreign Language). The courses include LING 270/350/351, LING 475, LING 480, LING 482, and LING 410. The module can be completed by linguistics majors and non-majors. Also, Linguistics, in cooperation with Latin American Studies, offers coursework toward the TEFL module in Cuenca, Ecuador.

Language and Literature Courses

The Department of Linguistics offers courses in Arabic, Chinese, Indonesian/Malaysian, Japanese, and Swahili. Although no major in these languages is available, a minor is offered in Japanese (see below). If you are working toward an International Studies Certificate or a degree in African or Asian studies, however, you may choose three quarters of an appropriate African or Asian language as part of your course requirements.

The department also offers courses in the literatures of Asia, which may fulfill certain requirements for an International Studies Certificate or a degree in Asian studies. See the index for the specific language, or refer to "Foreign Languages and Literatures" in the Courses of Instruction section, which includes courses in both languages and literature. (Literature courses are listed in the Foreign Languages and Literatures section under International Literature: Linguistics).

Japanese Minor Minor code ORJAPN

A Japanese minor requires a minimum of 24 hours of language (JPN) courses beyond 213 with a grade of C (2.0) or better in each course. There are no specific course requirements, but you should observe prerequisites. Consult with the Department of Linguistics (Gordy 383) to develop a minor.

Mathematics

Mathematics Major (B.S. or B.A.) Major codes BS3101, BA3101

The requirement for the B.A. or B.S. in mathematics is 50 quarter hours in courses numbered 200 or above, 16 hours

of which must be chosen from courses numbered 306 and above (exclusive of 490 and 491), all taken for grade. For a B.S., you must also complete MATH 314 (or 413A) and MATH 360 (or 460A) as part of your 16 hours chosen from courses numbered above 306.

When planning any program of study in mathematics, it is strongly recommended that you consult an advisor from the department. Also see the programs in Actuarial Science, Preparation for Advanced Training, Applied Mathematics, and Premeteorology listed as special curricula below.

To study mathematics strictly from a mathematician's viewpoint in specially designed courses, inquire about the department's tutorial program. (Standard courses listed in the catalog are designed to serve many departments and purposes.)

To prepare for teacher licensure, seek a broad background in various areas of mathematics, including algebra, analysis, geometry, computer science, probability, and statistics. In addition to the course requirements listed by the College of Education, suggested electives include MATH 343, 360, 406, 443, 450A, 450B, and 450C. Please seek assistance at the department office, Morton 321, to consult an advisor in the Department of Mathematics knowledgeable about math education. Together you can plan how to complete the licensure requirements listed under Integrated Mathematics in the College of Education section of the *Catalog*.

See the General Education Requirements listing in the "Graduation Requirements—University Wide" section for Tier I quantitative skills requirements.

Mathematics Minor Minor code OR3101

The requirement for a minor in mathematics is 30 quarter hours in mathematics courses numbered above 200, including 10 quarter hours of courses numbered 306 or above.

Mathematics—Actuarial Sciences Major (B.S. or B.A.) Special curricula; major codes BS3105, BA3105

The following program includes 56 hours of mathematics and is intended to prepare you for entering the actuarial profession. After completing the program, you should be prepared to pass the first actuarial examination before graduation.

The program has a strong business component (with the addition of BUSL 255, MK 202, and OPN 310 it satisfies the requirements for a business administration minor) and is suitable if you plan to combine mathematics with a career in business. Finance 327, 341, 461, and MATH 456 are also recommended in addition to the required courses listed below.

Freshman

MATH 263A, B, C	Calculus	12
MATH 211	Elem. Linear Algebra	4
ECON 103, 104	Prin. of Micro/Macro.	8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 250	Intro to Prob. and Stat. I	4
MATH 251	Intro to Prob. and Stat. II	4
ACCT 101, 102	Fin. Acct. and Man. Acct.	8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior

MATH 450A, B, C	Theory of Statistics	12
MATH 455	Princ. of Actuarial Science	4
CS 210	Programming in C	5
FIN 325	Managerial Finance	4
MGT 202	Management	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Senior

MATH 410	Matrix Theory	4
MATH 451	Stochastic Processes	4
FIN 331	Risk and Insurance	4
FIN 436	Life Insurance	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Mathematics—Prep. for Advanced Training Major (B.S. or B.A.)**Special curricula; major codes BS3102, BA3102**

You can ensure adequate preparation for graduate work by building your program around the 56 hours of basic mathematics offerings listed below. In addition, some computer science experience and coursework from the physical sciences is recommended. Consult an advisor in the Department of Mathematics for assistance in planning your program.

Freshman

MATH 263A, B, C	Calculus	12
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Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 306	Found. of Math. I	4
MATH 314	Elem. Abstract Algebra	4
MATH 360	Intermediate Analysis	4
	Math elective	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior-Senior

MATH 411	Linear Algebra	4
MATH 413A, B or MATH 480A, B,	Intro to Mod. Algebra Elem. Point Set Topology	8
MATH 460A, B, C	Advanced Calculus	12

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

You are encouraged to select other 400-level mathematics electives as time and interest permit.

Mathematics—Applied Mathematics Major (B.S.)**Special curriculum; major code BS3103**

This program leads to a B.S. in mathematics with an emphasis on applications of mathematics to other disciplines. The intent is to help prepare you for employment as a professional applied mathematician. If you are pursuing this program, you should select an additional concentration area in ONE of the following areas: engineering, computer science, natural sciences, social sciences, or business. In addition to 50 hours of mathematics course requirements listed below, at least 16 hours of extra departmental coursework at the 200 level or above is required in this chosen area.

Consult with an advisor for assistance in designing a suitable study plan. Your program must meet the following requirements:

Departmental requirements

MATH 263A, B, C, D	Calculus	16
MATH 306	Found. of Mathematics I	4

MATH 340	Differential Equations	4
MATH 360	Intermediate Analysis	4

Select additional courses from the following to make a total of at least 50 credit hours in mathematics:

MATH 410	Matrix Theory	4
MATH 412	Intro to Algebraic Coding Theory	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
MATH 442	Linear and Nonlinear Prog.	4
MATH 443	Math. Modeling and Optimization	4
MATH 444	Intro to Numerical Anal.	4
MATH 445	Adv. Numerical Methods	4
MATH 446	Numerical Linear Algebra	4
MATH 448	Intro to Waves and Wavelets	4
MATH 449	Adv. Diff. Equations	4
MATH 450A, B, C	Theory of Statistics	4–12
MATH 451	Stochastic Processes	4
MATH 452	Statistical Computing	4
MATH 460A, B, C	Advanced Calculus	4–12
MATH 470	Appl. Complex Variables	4
MATH 486	Intro. to Bioinformatics	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives

Additional Extra departmental coursework

In addition to the required mathematics courses listed above, at least 16 hours of extra departmental courses at the 200 level or above are required in ONE of the following areas: engineering, computer science, natural sciences, social sciences, or business.

Mathematics—Meteorology Major (B.S. or B.A.)**Special curricula; major codes BS3110, BA3110**

This interdisciplinary program in the Departments of Geography, Mathematics, and Physics is designed to prepare you for training at the graduate level in the fields of meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see department listings in this section). If you choose the mathematics emphasis, which includes a minimum of 44 hours, contact the Department of Mathematics for advising.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Elements of Physical Geog.	5
GEO 101	Intro to Geology	5
MATH 263A, B, C	Calculus (or advanced placement)	12
	English Composition	5

Sophomore

GEOG 201	Environmental Geography	4
GEO 211	Oceanography	4
MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observations in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2
PHYS 311, 312	Mechanics English composition	4

Senior

Two courses in computer programming or quantitative methods (see advisor for approved list)	10
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PHYS 411	Thermodynamics	4
PHYS 414	Dynamic Meteorology I	4
PHYS 415	Dynamic Meteorology II	4
Mathematics requirements		
MATH 410	Matrix Theory	4
MATH 444	Intro to Numerical Anal.	4
MATH 445	Adv. Numerical Methods	4
MATH 446	Numerical Linear Alg.	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives. GEOG 406 and GEOG 407 are also recommended in addition to the required courses listed above.

Medicine

See Biological Sciences or Chemistry, Preparation for Medicine.

Microbiology

See Biological Sciences.

Modern Languages

(see also: Foreign Languages and Literatures)

French Major (B.A.)—Major code BA5221

German Major (B.A.)—Major code BA5222

Russian Major (B.A.)—Major code BA5224

Spanish Major (B.A.)—Major code BA5225

Germanic, Romance, and Slavic languages are included in the offerings of the Department of Modern Languages. Majors are offered in French, German, Russian, and Spanish.

The minimum requirement for a French major is 40 quarter hours beyond 213, which must include 12 quarter hours at the 400 level. French majors must complete 341, 342, 343, 348 or 349, and 354; two of 345, 355, or 356 in addition to the 12 quarter hours at the 400 level.

The major requirement for the B.A. in German is a minimum of 36 quarter hours beyond 213. Specific requirements are 341, 342, 343, 348 or 349, 355, 356, and at least 12 quarter hours at the 400 level, which should include courses in both language and literature.

The major requirement in Russian is a minimum of 36 quarter hours beyond 213. Specific requirements are 341, 342, 343, 348 or 349, 355, 356, and at least 12 quarter hours at the 400 level, which should include courses in both language and literature.

In Spanish the requirement is a minimum of 40 quarter hours beyond 213, which must include 16 quarter hours at the 400 level. Spanish majors must complete 341, and 343; 348; one of 349, 350, 351, or 352; two of 345, 354, 355, or 356; one of (linguistics) 437, 438, 439, or 441; one of (Spanish-American content) 443, 444, 447, or 448; and one of (Spanish content) 425, 427, 429, 432, 450, 453, 454, 455, or 458. 435 may be used to fulfill a Spanish 400 level requirement if approved by the department. An Oral Proficiency Interview (OPI) is required of all Spanish majors. This must be taken and passed at least one quarter prior to graduation. For more information contact the Modern Languages Department (Gordy 283).

Education Abroad Requirement for Spanish Majors

Students majoring in Spanish must have a minimum of one quarter of education abroad in a Spanish-speaking country. Students choose a study abroad program in consultation with an academic advisor. The primary goal of education

abroad is to increase cultural and linguistic competency. We strongly recommend that students study abroad after completing the equivalent of at least one year of language study. Although we encourage students to participate in an Ohio University study abroad program, other alternatives are possible.*

* In rare cases, the study abroad experience may be waived due to prior experience, financial exigencies, etc. In some cases, an internship with a Spanish-speaking organization may substitute for the education abroad. The Modern Languages Department must approve all substitutions which students initiate through petition to their academic advisor.

You are not permitted to take courses in your major subject on a pass/fail basis. A grade of C (2.0) or better must be earned in a course for those hours to count toward a major. Students majoring in an area other than Spanish are strongly urged to study abroad in one of the department's programs. Suggested electives are classical languages, comparative literature, cultural anthropology, English, fine arts, history of the country in your major interest, and linguistics.

If you are an Arts and Sciences student interested in becoming licensed to teach languages at the secondary level (middle school or high school), please seek assistance at the department office, Gordy 283, to meet with language department faculty knowledgeable about language education. Together you can plan how to complete the licensure requirements listed under Modern Languages in the College of Education section of the Catalog. Prospective teachers are highly encouraged to spend one quarter in study abroad.

The Language Resource Center was opened in September of 1998. It is located on the ground floor of Gordy Hall. It consists of a large independent study lab, a classroom computer lab, a classroom audio lab, an independent study audio lab, a faculty development room, a recording studio, a video editing room, and a classroom for observation.

The department has chapters of foreign language honoraries Delta Phi Alpha, Phi Sigma Iota, and Sigma Delta Pi. For information on the honors tutorial programs in French and Spanish, see the Honors Tutorial College section.

The following study-abroad programs are available through the department:

- 1 Austria: spring quarter in Salzburg offers beginning through advanced German.
- 2 Canada: 5 week summer program in Quebec City offers courses in beginning through advanced French.
- 3 Ecuador: spring quarter in Cuenca offers courses in intermediate through advanced Spanish.
- 4 France: spring quarter in Tours offers courses in beginning through advanced French.
- 5 Martinique: winter intersession in Martinique offers one upper-level course.
- 6 Mexico: winter quarter in Merida offers intermediate and advanced Spanish and coursework in Latin American area studies.
- 7 Puerto Rico: winter intersession in Puerto Rico offers one upper-level course.
- 8 Russia: spring quarter in Moscow offers intermediate and advanced Russian.
- 9 Spain: one-, two-, or three-quarter sequence in Pamplona offers courses necessary for completing the Spanish major or minor and for working toward the Certificate in European Studies. A summer session is also available.

French Minor—Minor code OR5221**German Minor—Minor code OR5222****Russian Minor—Minor code OR5224****Spanish Minor—Minor code OR5225**

A foreign-language minor requires a minimum of 24 hours of language courses beyond 213 with a grade of C (2.0) or better in each course. There are no specific course requirements, but you should observe prerequisites and course sequences. Consult with the Modern Languages department (Gordy 283) to develop a minor.

Music

See School of Music, in the College of Fine Arts section, for information about selective admission requirements. To earn a B.A. in music from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

Pharmacy

See Chemistry or Prepharmacy.

Philosophy**Philosophy Major (B.A.)****Major code BA5241**

The major requirement for a B.A. consists of a minimum of 40 hours, including

PHIL 310	Hist. of Western Phil.: Ancient	5
PHIL 312	Hist. of Western Phil.: Modern	5
PHIL 320	Symbolic Logic I	4
PHIL 490	Senior Seminar	3

At least three courses numbered above 400, not including 490 or 497.

You may begin your study of philosophy with courses at the 100, 200, or 300 level except as limited by specific prerequisites.

For more information, contact the Department of Philosophy.

Philosophy Minor**Minor code OR5241**

The general requirement for the philosophy minor is 25 hours, at least 20 of which must be courses numbered 200 or above. For more information, contact the Department of Philosophy.

Philosophy—Prelaw Major (B.A.)**Special curriculum; major code BA5244**

The requirement for a major in Philosophy—Prelaw is a minimum of 40 hours in philosophy, including the following:

PHIL 101 or PHIL 130	Fundamentals Introduction to Ethics	4 4
PHIL 240	Social and Political Philosophy	4
PHIL 310 or PHIL 312	History of Western Philosophy: Ancient History of Western Philosophy: Modern	5 5
PHIL 320	Symbolic Logic I	4
PHIL 440 or PHIL 442	Contemporary Social Philosophy Philosophy of Law	5 5
PHIL 490	Senior Seminar	3

At least two additional courses above 400.

For more information, contact the philosophy department.

Philosophy—Pretheology Major (B.A.)**Special curriculum; major code BA5242**

If you plan to enter a theological seminary or to do graduate study in religion, it is recommended that you take a broad program of undergraduate courses, including the following

(with minimum credit suggested in each area): philosophy and world religions (12); courses on the texts and history of religions (15); English composition and literature, and world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements of the B.A. degree and the University General Education Requirements.

It is advisable to major in philosophy, English, classics, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major is also available from the Departments of English and History.

Preparation for Physical Therapy

Ohio University offers a unique opportunity to the prospective physical therapist. Recognized for leadership in the development of preprofessional physical therapy curricula since the 1930s, the Department of Biological Sciences, and the Department of Psychology, both in the College of Arts and Sciences, work cooperatively with the School of Physical Therapy in the College of Health and Human Services.

Physical therapy programs are offered at the graduate level only. As of January 1, 2002, undergraduate physical therapy programs are no longer accredited. To be eligible for admission to most accredited professional schools of physical therapy, you must first complete the baccalaureate-level preprofessional preparatory coursework and then apply on a competitive basis to a professional school of physical therapy. If you are accepted, the professional program extends for an additional two to three years, culminating in a degree in physical therapy. The optional plans of study available will prepare you to be highly qualified for admission to most schools of physical therapy. However, some professional programs require special prerequisites—either courses or practical experience as a volunteer—before you apply for admission. It is your responsibility to check the admission requirements for programs you wish to attend and, in consultation with your academic advisor, to fulfill any special prerequisites.

Ohio University has the first entry-level doctoral program in the state of Ohio. Although a master's degree is sufficient to sit for the national licensing examination, the profession has been making a rather rapid transition to the doctoral degree (DPT). At Ohio University, the entry-level doctoral program in the School of Physical Therapy admits students on a competitive basis. It is a three-year program with approximately 17 quarter hours per term. A baccalaureate degree is required for admission to the program. Although a baccalaureate degree in any field is acceptable, as long as the prerequisites have been attained, the most direct routes at Ohio University are the biological sciences/pre-physical therapy or psychology/pre-physical therapy majors in the College of Arts and Sciences. A major in exercise physiology in the College of Health and Human Services is also an option.

Application should be made in the senior year. The GRE should be taken at the beginning of the senior year in order to meet requirements for early admission status. Some volunteer experience is possible through Ohio University Therapy Associates, particularly in the course, PT 259B.

For additional information, see Biological Sciences or Psychology Pre-Physical Therapy majors in this section, and

“Physical Therapy” in the College of Health and Human Services section. Students should consult the Web page (<http://www.ohio.edu/phystherapy/>) for the most up-to-date information.

Physics and Astronomy

The Department of Physics and Astronomy offers majors in physics (B.A. or B.S.); preparation for advanced training for students planning to pursue graduate study in physics or astronomy; applied physics; and meteorology.

Students in the Honors Tutorial College may major in physics, astrophysics, or engineering physics. Curricula for these programs are available from the Honors Tutorial College.

Contact the chair of the Department of Physics and Astronomy if you are interested in pursuing any of the programs described below.

Physics Major (B.S. or B.A.)

Major codes BS3331, BA3331

The minimum requirements for the **B.S. degree** with a major in physics are

54 quarter hours of physics, including

PHYS 210	Physics Seminar	1
PHYS 251, 252, 253	General Physics	15
PHYS 254	Contemporary Physics	4
PHYS 272, 273	Electronics Lab	4
PHYS 311, 312	Mechanics	8
PHYS 371, 372, 373	Intermediate Labs	6
PHYS 411	Thermodynamics	4
PHYS 427, 428	Electricity and Magnetism	8
PHYS 451	Quantum Mechanics	4

The following mathematics courses

MATH 263A, B, C, D	Calculus	16
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Anal. and Partial Differential Equations	4

12 quarter hours in PHYS, ASTR, or MATH above the 300 level, in CHEM above the 150 level, or in BIOS above the 200 level.

The minimum requirement for the **B.A. degree** with a major in physics is 36 quarter hours in physics and/or astronomy at or above the 200 level, including

PHYS 210	Physics Seminar	1
PHYS 251, 252, 253	General Physics	15
PHYS 254	Contemporary Physics	4

This degree is recommended if you want a general education with an emphasis on physics and/or astronomy; have plans for further education or employment in an interdisciplinary area; or desire a dual major in physics and chemistry, biological sciences, geological sciences, etc.

You can meet the requirements for teaching high school physics by completing the physics major program listed in the College of Education section.

Astronomy Minor Minor code ORASTR

The minor in astronomy is an option for non-physics majors who wish to study astronomy as a special interest. (Physics majors who are interested in astronomy should enroll in the physics pre-astronomy program.) Students in mathematics, chemistry, engineering, and other fields of study will find a significant science overlap with their major areas of interest.

The astronomy minor consists of a set of required courses—PHYS 251 and 252, PHYS 253 or EE 321, PHYS 254, and ASTR 305—and at least 12 hours from ASTR 310, 401, 402, 403, 410, and 450.

Physics Minor Minor code OR3331

The minor in physics consists of a minimum of 30 hours with 10 hours at or above the 300 level.

Physics—Applied Physics Major (B.S.) Special curriculum; major code BS3332

This four-year program leads to a B.S. in physics and allows an emphasis in experimental techniques from engineering or other applied sciences. It provides the opportunity for a broad basic education in areas fundamental to present technology and is aimed at preparing you for many physics career opportunities in industry and government laboratories.

The sequence of courses will vary depending on your interests. Basic requirements in natural sciences, physics, and mathematics will be the same as those of the regular B.S. in physics but may be satisfied by engineering or other applied science courses. The elected sequence could be toward a specific area of interest within an engineering department, e.g. Civil, Mechanical, Electrical, etc. or over a broad area of interest e.g. materials science, which crosses colleges.

The advantage of preparing for applied science through the fundamental physics program is the acquisition of the abilities for continued development of the technology from fundamental physics principles.

Astrophysics Major (B.S.)

Special curriculum; major code BS3335

This challenging program offers a solid foundation in physics along with specialized study for students interested in pursuing advanced degrees in astronomy or astrophysics. Required and recommended courses are listed below by the year in which they are taken by most students. The order is not fixed, but check the course listing for prerequisite requirements. Consult the department chair and pre-astronomy major advisor during your freshman year for help in planning your program.

Freshman

	English composition	5
MATH 263A, B, C	Calculus	12
PHYS 210	Physics Seminar	1
PHYS 251, 252	General Physics	10

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 410*	Matrix Theory	4
ASTR 305	Fund. of Astrophysics	3
ASTR 401	Stellar Astrophysics	3
CS 220*	Intro to Computing	5
PHYS 253	General Physics	5
PHYS 254	Contemporary Physics	4
PHYS 272, 273	Electronics Lab	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior

	English composition	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
ASTR 402	Galactic and Interstellar Astrophysics	3

ASTR 403	Extragalactic Astrophysics and Cosmology	3
PHYS 311, 312	Mechanics	8
PHYS 371, 372, 373	Intermediate Lab	6

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.***

Senior

	Tier III	4
ASTR 310**	Astronomy Lab	1–3
ASTR 410**	Observ. Astrophysics	3
ASTR 450**	Studies in Astronomy	1–3
PHYS 411	Thermodynamics	4
PHYS 412*	Kinetic Theory and Stat. Mechanics	4
PHYS 427, 428	Elec. and Magnetism	8
PHYS 429*	Electromag. and Relativity	3
PHYS 451*	Quantum Mechanics	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.***

If you are in the Honors Tutorial Program, special combinations of some of the above courses are available. Consult with the pre-astronomy advisor.

*Strongly recommended.

**A total of at least six hours in combined coursework from ASTR 310, 410, or 450 is required.

***Beneficial PHYS electives include 303 Computer Simulation Methods, 423 Optics, and 453 Nuclear and Particle Physics.

Physics—Meteorology Major (B.S.)

Special curriculum; major code BS3338

The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics is designed to prepare you for graduate training in the fields of meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see department listings in this section). If you choose the geography or mathematics emphases, contact the department of Geography or Mathematics for advising.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Elements of Physical Geog.	5
GEOL 101	Intro to Geology	5
MATH 263A 263B, 263C	(or advanced placement), Analytic Geom. and Calc.	12
	English composition	5
PHYS 210	Physics Seminar	1

Sophomore

GEOG 201	Environmental Geography	4
GEOL 211	Oceanography	4
MATH 263D	Analytic Geom. and Calc.	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observations in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2
PHYS 311, 312	Mechanics	8
	English composition	4

Senior

	Two courses in computer programming or quantitative methods (see advisor for approved list)	10
GEOG 406	Intro to Synoptic Meteorology	5

GEOG 407	Adv. Synoptic Meteorology	5
PHYS 411	Thermodynamics	4
PHYS 414, 415	Dynamic Meteorology	8

Physics emphasis requirements

PHYS 272, 273	Electronic Lab	4
PHYS 254	Contemporary Physics	3
PHYS 412 or PHYS 423	Kinetic Theory and Statistical Mechanics Optics	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Political Communication Certificate Program

The College of Communication and the College of Arts and Sciences jointly sponsor the undergraduate Political Communication Certificate Program for students in any major program who want to gain knowledge and understanding about the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their attempts to shape political decisions. Completion of this program is officially recognized on your transcript when you graduate, and a certificate is awarded. See the program details in the College of Communication section.

Political Science

Political Science Major (B.A.)

Major code BA4201

The major requirement is a minimum of 52 hours including

POLS 101	Amer. Natl. Government	4
POLS 150	Current World Problems	4
POLS 270	Political Theory	4

Two additional 200-level courses

At least four 300- and 400-level courses in one of the following tracks:

American politics

POLS 301, 304, 306, 310, 319, 323, 401, 402, 405, 406, 407, 415, 417, 418, 420, 424, 425, 426, 476A, 476B, 488

World politics

POLS 331, 333, 340, 354, 427, 429, 432, 433, 434, 435, 438, 439, 441, 442, 445, 446, 447A, 447B, 452, 455, 457, 459, 463, 464

Law, Justice, and Political Thought

POLS 301 (required), and three courses from POLS 319, 371, 372, 373, 401, 402, 404, 409, 413, 420, 421, 455, 475, 476, 477, 478, 488

General Politics

One 300- or 400-level course from each of four different tracks

All majors are encouraged to take additional courses designed to develop skills, including POLS 305J, 390, 480, 481, 482, 483, 484, and 495.

Political Science Minor

Minor code OR4201

The minor in political science requires a minimum of 28 hours, including POLS 101, 150, 270, and at least 16 hours at the 300–400 level.

Political Science Pre-Foreign Service Major (B.A.)

Special curriculum; major code BA4202

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service

officer examinations, including sample questions from previous examinations, from these departments.

Political Science—Prelaw (B.A.)

Special curriculum; major code BA4203

The prelaw major in political science gives students access to advice, activities, and courses designed to prepare them for law school. Prelaw majors meet the same requirements as general political science majors. They are encouraged to complete the Law, Justice, and Political Thought track, which offers a liberal arts education for undergraduate prelaw students as well as those studying political theory and legal institutions from a broader perspective. After completing the core requirements of the major, students take courses introducing concepts basic to the study of law and political theory. Advanced students take an array of electives in the fields as well as internships in a variety of legal and public affairs settings.

Political Science—Public Administration Major (B.A.)

Special curriculum; major code BA4200

The interdisciplinary program in public policy and administration is designed to provide broad training in preparation for a career with local, state, or federal government in the areas of budgeting, personnel administration, intergovernmental relations, program planning and evaluation, and general administration.

Be careful to meet the prerequisites for all courses. You are encouraged to gain as broad an understanding of politics as political science majors, since politics is a crucial element in public administration.

For further information and advice, consult the public administration advisor in the Department of Political Science.

Required courses

POLS 101	American National Government	4
POLS 102	Issues in American Politics	4
POLS 150	Current World Problems	4
POLS 210	Public Administration	4
POLS 230	Comparative Politics	4 or
POLS 250	International Relations	4
POLS 270	Political Theory	4
POLS 310	American Domestic Policy	4
POLS 304 or POLS 320	State Politics Urban Politics	4
ECON 103	Microeconomics	4
ECON 104	Macroeconomics	4
CS 120	Computer Literacy	4
PSY 221 or QBA 201 or POLS 482	Statistics for Beh. Sciences Intro to Business Statistics Quant. Political Analysis	5 or 4 or 5
Any five of the following:		
POLS 407	Politics of Urban Dev.	4
POLS 408	Urban Public Admin.	4
POLS 410	Public Policy Analysis	4
POLS 412	Public Personnel Admin.	4
POLS 413	Administrative Law	4
POLS 414	Org. Theory and Politics	4
POLS 424	Intergovernmental Relations in the U.S.	4
POLS 425	Environ. and Natural Res. Politics and Policy	4
POLS 429	Comparative Public Admin.	4
POLS 469	Nonprofit Fundraising	4
POLS 484	Mgt. Skills for Public Admin.	5
POLS 486	Public Budgeting	4
POLS 487	Financial Mgt. in Govt.	4

POLS 488	Public Dispute Resolution	4
POLS 489	Nonprofit Management	4

Recommended electives

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
ECON 425	Public Policy Economics	4
ECON 430	Public Finance	4
FIN 325	Managerial Finance	4
GEOG 201	Environmental Geography	4
GEOG 326	Urban Geography	4
GEOG 350	Land Use Planning	4
POLS 409	Criminal Procedure	4
POLS 495	Internship	4
SOC 430	Soc. of Organizations	4

Psychology

Psychology Major (B.A.)

Major code BA4101

The major requirement for the B.A. in psychology consists of a minimum of 50 quarter hours and a maximum of 72 hours. All majors are required to take

PSY 101	General Psychology	5
PSY 221	Stat. for Beh. Sciences	5
PSY 226	Research Methods	4

Biological—at least one of the following:

PSY 201	Sensation and Perception	4
PSY 203	Learning	4
PSY 312	Physiol. Psychology	4
PSY 314	Comp. Psychology	5
PSY 327	Human Psychophysiol.	4
PSY 380	Psych. of Health and Illness	4
PSY 490*	Seminars	3–5

Cognitive—at least one of the following:

PSY 304	Human Learning and Cognitive Processes	4
PSY 305	Human Memory	4
PSY 307	Psycholinguistics	4
PSY 308	Human Judgment and Decision Making	4
PSY 490*	Seminars	3–5

Developmental—at least two of the following:

PSY 273	Child and Adoles. Psych.	4
PSY 315	Behavior Genetics and Individual Differences	5
PSY 374	Psych. of Adulthood and Aging	4
PSY 376	Psychological Disorders of Childhood	4
PSY 378	Psychology of Gender	4
PSY 470	Prenatal Influences on Development	4
PSY 490*	Seminars	3–5

Clinical—at least two of the following:

PSY 233	Psych. of Personality	4
PSY 332	Abnormal Psychology	4
PSY 341	Tests and Measurements	4
PSY 351	Intro to Clinical and Counseling Psychology	4
PSY 430	Psychoactive Drugs	4
PSY 490*	Seminars	3–5

Social-Organizational—at least two of the following:

PSY 261	Industr. and Org. Psych.	4
PSY 310	Motivation	4

PSY 336	Social Psychology	4
PSY 337	Social Psych. of Justice	4
PSY 361	Adv. Org. Psychology	4
PSY 362	Personnel Psych.	4
PSY 490*	Seminars	3-5

At least four courses at the 300 level or above

- * 490 seminars that apply to the psychology area requirements are approved by the assistant chair for undergraduate studies when the seminar is offered. Some 490s do not apply to any area.

If you plan to attend graduate school in psychology, you should include PSY 233, 273, 304, 312, 321, 332, 336, 341, and 418.

In addition to a minimum of 50 hours of psychology coursework, majors are required to complete a series of extradepartmental courses selected from the natural sciences and either mathematics or computer science.

Majors must complete three courses in ONE of the following natural science areas:

- 1 Biological Sciences,
- 2 Chemistry,
- 3 Environmental and Plant Biology,
- 4 Geography,
- 5 Geology, or
- 6 Physics

Courses that will fulfill this requirement are listed under the Natural Sciences Area Requirement in the College of Arts and Sciences section of the Catalog and in the Arts and Sciences Natural Sciences portion of students' DARS. Courses taken to fulfill the extradepartmental requirement simultaneously apply to the College of Arts and Sciences Natural Sciences area requirement.

The three courses that you choose for your extradepartmental natural science requirement must have the same departmental prefix, with the following exception: If BIOL 101 is used as one of the courses, it may be combined with either two Environmental and Plant Biology (PBIO) courses or two Biological Science (BIOS) courses. The intention of the extradepartmental natural science requirement is to provide a basic foundation in at least one natural science area, while allowing flexibility in the choice of area. However, students who are planning to attend graduate school in psychology are encouraged to complete the three courses in Biological Sciences (BIOL, BIOS).

Undergraduate psychology majors must also take two courses in either mathematics or computer science. Students may select any two courses in Mathematics (MATH) numbered 113 or above (except 251) OR any two courses in Computer Science numbered 200 or above. These courses are required to ensure that majors have at least a basic literacy in mathematics or computer science but to allow students to select from a wide range of levels. MATH or CS courses chosen for the extradepartmental requirement may simultaneously apply to the Natural Sciences area for Arts and Sciences distribution requirements, except MATH 113, 115, 117, 118, 120, 121, 122, and 320. You may choose MATH 250, but only if it is completed BEFORE you take PSY 221. Do not take MATH 251 because credit is not allowed for both MATH 251 and PSY 221. MATH 113 or a math placement of PL2 or higher is the prerequisite for taking PSY 221.

For qualified students, the department offers a departmental honors program. A detailed description is available from the department; apply to the assistant chair for undergraduate studies.

Requirements for all psychology programs are structured to provide you with exposure to several areas of psychology, while providing latitude in selecting courses to fit your needs and interests. Consult your academic advisor early in your program to plan appropriate course selections, particularly if you are considering graduate work in psychology.

At the graduate level, the department offers doctoral programs in clinical, experimental, and organizational psychology. Information about the graduate programs is available from the assistant chair for graduate studies.

**Psychology Minor
Minor code OR4101**

The minor in psychology consists of a minimum of 28 hours, with at least two courses at the 300 level or above. PSY 101 and 120 or 221 are required. In addition, at least one course is required in four of the following five areas:

- A Biological: 201, 203, 312, 314, 327, 380, 490*
- B Cognitive: 304, 305, 307, 308, 490*
- C Developmental: 273, 275, 315, 374, 376, 378, 470, 490*
- D Clinical: 233, 332, 341, 351, 430, 490*
- E Social-Organizational: 261, 310, 336, 337, 361, 362, 490*

*490 seminars that apply to these area requirements are approved by the assistant chair for undergraduate studies when the seminar is offered. Some 490s do not apply to any area.

**Psychology Pre-Physical Therapy Major (B.A.)
Special curriculum; major code BA4105**

This program prepares you to apply to graduate physical therapy professional programs.

For further information about physical therapy, see the Preparation for Physical Therapy listing in this section. See also the pre-physical therapy program described under Biological Sciences in this section.

Freshman

CHEM 121, 122, 123*	Principles of Chemistry	12
ENG 151 or 152 or 153	English composition	5
MATH 163A or MATH 263A or MATH 266A	Calculus Calculus Calculus Biol Appl	4 4 4
PSY 101**	General Psychology	5
PSY 221**	Statistics	4
PT 259A, 259B	Intro to Phys. Therapy	5
SOC 101**	Intro to Sociology	5
BIOS 170, 171	Intro to Zoology	10

Arts and Sciences degree requirements, including the B.A. degree foreign language requirement, and/or electives.

Sophomore-Junior

PHYS 201, 202, 203	Intro to Physics	15
PSY 226	Research Methods	4
PSY 273	Child and Adolescent Psychology	4
PSY 312	Physiological Psychology	4
PSY 332	Abnormal Psychology	4
BIOS 301	Human Anatomy (soph)	6
BIOS 345, 346	Human Physiology and Lab (soph)	7
BIOS 445, 446 or PESS 414, 415	Physiol. of Exercise, Lab Physiol. of Exercise, Lab	7 7
PHIL 130 or PHIL 331	Intro. to Ethics Moral Problems in Medicine	4 5

Arts and Sciences degree requirements, ENG junior composition course, and/or electives.

Sophomore-Junior-Senior

PSY 374	Adulthood and Aging	4
PSY 489***	Fieldwork	0-5

one of:		
PSY 201	Sensation and Perception	4
PSY 203	Learning	4
PSY 304	Human Learning	4
PSY 308	Human Judgment and Decision Making	4
PSY 327	Human Psychophysiol.	4

one of:		
PSY 233	Psych. of Personality	4
PSY 351	Clinical and Counseling Psychology	4
PSY 380	Psych. of Health and Illness	4
PSY 430	Psychoactive Drugs	4

one of:		
PSY 315	Behavior Genetics and Individual Differences	5
PSY 376	Psychological Disorders of Childhood	4
PSY 378	Psychology of Gender	4

two of:		
PSY 261	Industrial and Organizational Psychology	4
PSY 336	Social Psychology	4
PSY 337	Social Psych. of Justice	4

recommended:		
BIOS 352	Biomechanics	4
or PESS 302	Biomechanics	4
BIOS 413	Human Neuroscience	4

Arts and Sciences degree requirements, major courses, General Education courses, and/or electives.

*The 120 chemistry sequence is usually sufficient for physical therapy programs. Other biomedical and allied health areas may require the 150 chemistry sequence. The regular psychology major does not require chemistry.

**If you are completing the B.A. in psychology pre-physical therapy and plan to start college-level foreign language with a course beyond 111, you are advised to begin foreign language in your freshman year and to complete PSY 101, PSY 221, and/or SOC 101 in the sophomore year. If you are starting foreign language with 111, begin language courses no later than the junior year.

***You may receive up to five hours of credit in PSY 489 for volunteer work in a physical therapy setting. Volunteer hours are required for application to many physical therapy programs.

PSY 221	Statistics	5
PSY 273	Child and Adoles. Psych.	4
PSY 332	Abnormal Psychology	4
PSY 374	Psych. of Adulthood and Aging	
or SW 486	Aging in America	4
or HLTH 290	Health Aspects of Aging*	4

*will not count towards 90 hrs of A&S 200 level or above requirement.

In addition to these foundation courses, 27 hours are taken in the social sciences, including at least one course in each of the following areas: anthropology, economics, political science, and sociology. The choice of courses in these disciplines is left to you with the approval of your advisor and the permission of the instructor. You may use social work elective courses to substitute for up to a maximum of four hours of this social sciences requirement.

Admission to the Professional Major

Admission to the program is divided into two stages: preprofessional and professional. Freshmen are admitted as preprofessional majors (major code ND6603) to work on freshman- and sophomore-level requirements. To be admitted to the professional program, you are required (regardless of whether you are an Ohio University student or a transfer student) to submit an application and admissions essay to the department's screening committee. Applications are accepted during the second full week of each quarter; forms and guidelines are available from the department. To be considered, you must have completed a minimum of 48 quarter hours (12 quarter hours at OU for transfer students), with a minimum overall g.p.a. of 2.5. In addition, you must have completed (1) both SW 101 and SW 290 with a minimum grade of C in each course; (2) BIOS 103, PSY 221, PSY 273, as well as one course in any two of these areas: anthropology, economics, political science, and sociology; (3) Tier I composition (ENG 151, 152) and quantitative skills (MATH 113 recommended) requirements; (4) at least one quarter of the foreign language requirement other than high school; (5) a paid or volunteer social work experience. Meeting minimal requirements does not ensure admission to the major. To maintain compliance with the Council on Social Work Education student/faculty ratio standards, no more than 40 students are admitted annually.

To enroll in the senior-level practice sequence (SW 396, 397, 398; SW 491A-C; SW 492A-C), you must have been admitted to the major. In addition, you are expected to have (1) maintained an overall g.p.a. of 2.5; (2) completed one year of the foreign language requirement; and (3) completed all prerequisites for the sequence.

Social Services Minor

Minor code OR6602

Minor requirements consist of a minimum of 29 hours including SW 101, 190, 290, 390, and at least four other social work courses at the 300 level or above. In addition to Social Work electives, SW 383, 393, and 394 can be taken with permission of the instructor, to fulfill the four course requirement. The minor does not make you eligible for licensure in states regulating the practice of social work.

Social Work

Social Work Major (B.A.)

Major code BA6601

The Department of Social Work offers a flexible interdisciplinary curriculum designed to prepare you for beginning generalist social work practice. Upon completing the program, you will receive a B.A. with a major in social work. The Department of Social Work is fully accredited by the Council on Social Work Education. Graduates are qualified for full membership in the National Association of Social Workers and eligible for licensing as a social worker in Ohio.

Program Requirements

General requirements for a major in social work consist of a minimum of 59 hours of social work courses, plus at least 45 quarter hours of liberal arts foundation courses. Departmental required courses are:

SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an Inst.	4
SW 350	Res. Meth. in Social Work	4
SW 383	Intro to Social Work Practice Methods	4
SW 390	Social Policy	4
SW 393, 394	Dyn. of Human Behavior 1, 11	8
SW 396, 397, 398	Social Work Practice I, II, III	12
SW 491A, 491B, 491C	Integrative Seminar	6
SW 492A, 492B, 492C	Field Practicum	14

The following liberal arts foundation courses also are required:

BIOS 103	Human Biology	5
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Sociology

Sociology Major (B.A.)

Major code BA4251

The major requirements for the B.A. in sociology are a minimum of 44 quarter hours of courses in sociology, of which at least 16 hours must be at the 400 level. Students must earn a "C" or better in SOC 101, 351, and 403 or 404.

SOC 101	Intro to Sociology	4
SOC 351	Elem. Research Tech.	4
SOC 403	Dev. of Sociol. Thought	4
or SOC 404	Mod. Sociol. Theory	

PSY 221 Statistics 5
or MATH 251,
COMS 301, QBA 201

Students must complete courses in each of the four areas listed below as part of the forty-five hours in the major.

Social Inequality. At least one of the following

SOC 230 Sociology of Poverty 4
SOC 329 Race and Ethnic Relations in the U.S. 4
SOC 331 Class and Social Inequality 4
SOC 429 Soc of Race, Ethnicity and Class 4
SOC 435 Soc of the Welfare State 4
SOC 470 Sociology of Gender 4

Societal Institutions. At least one of the following

SOC 220 Introduction of the Family 4
SOC 233 Sociology of Sport 4
SOC 424 Urban Sociology 4
SOC 430 Sociology of Organization 4
SOC 432 Political Sociology 4
SOC 433 Sociology of Occupations 4
SOC 464 Law and Social Control 4
SOC 465 Social Change 4

Social Psychology. At least one of the following

SOC 210 Social Psychology 4
SOC 211 Collective Behavior 4
SOC 315 Social Identities 4
SOC 412 Public Opinion 4
SOC 416 Society and the Individual 4
SOC 419 Group Processes 4

Integrative Topics. At least one of the following

SOC 261 Deviant Behavior 4
SOC 365 Sociology of Mental Illness 4
SOC 414 Social Movements 4
SOC 421 Comparative Studies of the Family 4
SOC 422 The American Family System 4
SOC 467 Violence to Women 4
SOC 471 Gender and Justice 4

(Courses in anthropology count toward the Arts and Sciences social sciences requirement.)

**Sociology Minor
Minor code OR4251**

The requirement for the minor is a minimum of 28 hours of coursework in sociology, of which at least 16 hours must be at the 300 or 400 level; SOC 101; 351, and 403 or 404.

**Sociology—Criminology Major (B.A.)
Special curriculum; major code BA4253**

The criminology program is designed for students who plan to pursue a career in some aspect of the criminal justice system (e.g., corrections, probation, parole, or law enforcement) yet wish to receive a liberal arts education. Possibilities after graduation include employment in criminal justice or further study in law, criminology, or criminal justice. You will receive a degree in sociology with the specialization in criminology noted. You are encouraged to enter the program as a freshman to help ensure completion in four years. Students must earn a "C" or better in SOC 101, 260, 351, 362, and 403 or 404.

Required courses (25 credit hours)

SOC 101 Intro to Sociology 4
PSY 221 Statistics 5
or MATH 251,
COMS 301, QBA 201
SOC 260 Criminal Justice 4

SOC 351 Elem. Research Techniques 4
SOC 362 Criminology 4
SOC 403* Devel. of Soc. Thought 4
or SOC 404 Modern Soc. Theory

Criminology options: Take four courses for 16–22 credit hours

SOC 261 Deviant Behavior 4
SOC 363 Juvenile Delinquency 4
SOC 364 Police and Society 4
SOC 365 Soc. of Mental Illness 4
SOC 366 Soc. of Correction 4
SOC 367 Corporate and Governmental Crime 4
SOC 464 Law & Social Control 4
SOC 467 Violence Against Women 4
SOC 471 Gender & Justice 4
SOC 495 Internship in Criminology 5–10

Collateral sociology courses: Take three courses for 12 credit hours

SOC 201 Social Problems 4
SOC 210 Sociology Psychology 4
SOC 211 Collective Behavior 4
SOC 230 Soc. of Poverty 4
SOC 329 Race and Ethnic Relations in the U.S. 4
SOC 331 Class & Social Inequality 4
SOC 450 Data Analysis 4

Total credit hours: 57

The following courses are highly recommended, and you are encouraged to take some of them to satisfy the College of Arts and Sciences 18-hour social sciences requirement. Check the Courses of Instruction section for prerequisites.

PSY 332 Abnormal Psychology
PSY 337 Social Psychology of Justice
POLS 404 Civil Liberties
POLS 409 Criminal Procedure

* Preferred

**Sociology—Prelaw
Special curriculum; major code BA4254**

If you are in the College of Arts and Sciences and plan to enter law school, you will complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see "Law" in this section. You must earn a "C" or better in SOC 101, 351, and 403 or 404.

Spanish

See Modern Languages.

Theater

See School of Theater in the College of Fine Arts section.

Theology

See English, History, or Philosophy—Pretheology.

Undecided

Major Code ND0410

If you have not settled on a major but wish to be enrolled in the College of Arts and Sciences to benefit early on from this

advising perspective, you may apply to Ohio University as an undeclared or “undecided” major in Arts and Sciences. While on average, most students choose a major within the first four quarters of exploration, you are allowed to earn up to 90 credit hours before you must select a degree program.*

* Students with 45 or more credits transferring from other colleges within Ohio University may not select the undecided major. Transfer students from other universities are not eligible to enroll as undeclared in Arts and Sciences.

Virology

See Biological Sciences—Microbiology.

Women’s Studies Certificate Program

This program is available to complement any baccalaureate degree program offered by the University. The requirements for the certificate are 30 hours total including:

16 quarter hours:

WS 100	Intro to Women’s Studies	4
WS 200	Issues in Feminism	4
WS 350	Feminist Theory	4
WS 480	Capstone in Women’s Studies	4

14 quarter hours from the following*:

AAS 345	The Black Woman	4
AAS 411	Racial Performativity	4
AAS 482	The Black Family	4
AH 411	Representation of Gender in History of Art	4
ANTH 345	Gender in Cross-Cultural Perspective	4
ANTH 349	Life History: The Individual and Culture	4
ANTH 363	Gender in Prehistory	4
BIOS 202	Sex Differences and the Brain	4
CLAS 343	Women in the Ancient Mediterranean	4
CLWR 484	Women and Religion	4
COMS 320	Women and Health Communication	4
COMS 420	Gender and Comm.	4
COMS 422	Comm. in the Family	4
ENG 153A	Writing and Reading: Gender	5
ENG 306J	Women and Writing	4
ENG 325	Women and Literature	4
ENG 326	Lesbian and Gay Literature	4
ENG 447	Studies in Criticism: Contemporary Feminist Theory Senior Seminar	4
ENG 460	**Special Topics: Popular and Elite: Culture, Race, Class, and Gender in the American Renaissance	4
ENG 464	**Major English Authors: Woolf and Winterson	4
ENG 464	**Major English Authors: Mary Wollstonecraft and Her Circle	4
ENG 466	**Major Int’l. Authors: Contemporary Narratives of Exile	4
FILM 471	Film Topics Seminar: Masculinity and Film	4
FILM 472	Film Topics Seminar: Primitivism and Film	4
GEOG 327A	Social Geographies	4
HCCF 360	Human Sexuality	4
HCCF 462A	Diversity in Families	3
HIST 320A	Women in American History Before 1877	4
HIST 320B	Women in American History Since 1877	4
HIST 320C	Women’s Health and Medicine in U.S. History	4
HIST 332	Women in the Middle East	4
HIST 354A	History of Early Christianity	4

HIST 360A	Women in Early Modern Europe	4
HIST 360B	Women in Modern Europe	4
HIST 360C	Women Warriors	4
HIST 371A	Witchcraft 1400–1750	4
HIST 381	History of the Family	4
HIST 453D	Studies in Medieval History: Women in Medieval Society	4
HLTH 210	Health of Women	4
ILML 335	**Italian Literature in English: Women of the Italian Middle Ages	4
ILML 336	**Gay and Lesbian Writers in Latin America	4
ILML 339A	Nineteenth-Century Russian Literature in English: Women, Transgression and Crime	4
ILML 339B	Twentieth-Century Russian Literature in English: Love, Sex and Gender	4
LING 390	Lang. of Women and Men	3
MGT 462	Women in Management	4
PBIO 217	Women in Science	4
PESS 400	Women in Sports	3
POLS 319	Gay and Lesbian Politics	4
POLS 420	Women, Law, and Politics	4
POLS 421	Politics of Law and Sexuality	4
POLS 478	Feminist Political Theories and Movements	5
POLS 490	**Studies in Political Science: Gender and Political Development in Africa	4
POLS 490H	**Women in Politics	4
POLS 490T	**Feminist Legal Theory	4
PSY 378	Psychology of Gender	4
SOC 220	Introduction to the Family	4
SOC 407	Feminist Social Theory	4
SOC 421	Comp. Studies of Family	4
SOC 422	The American Family System	4
SOC 467	Violence Against Women	4
SOC 470	Sociology of Gender	4
SOC 471	Gender and Justice	4
TCOM 481	Women and the Media	4
TCOM 486A	Age, Class, Gender, Race, and Sexuality in the Media	4
WS 210	Women, Gender, and Rock and Roll	4
WS 320	Sexual Revolutions	4
WS 360	Women and Work Internship	4
WS 410	Global Feminisms	4
WS 411	Women and Globalization	4
WS 450	Advanced Feminist Theory	4
WS 460	Gender, Sexuality, and Culture	4
WS 461	Queer Theory	4
WS 481	Writing Gender	4
WS 493	Special Topics	4

* Contact the Women’s Studies office for advising, for information on additional courses, and to register for the certificate. The Women’s Studies Certificate is awarded upon graduation from Ohio University, and the award is recorded on your transcript. Consult with the Women’s Studies advisor before the deadline for graduation to ensure that the certificate will be awarded.

**Credit is awarded for the specific subtitle only in special topics courses. Actual course numbers may vary.

Women’s Studies Major

Major Code BA4402

Women’s Studies addresses the influence and meaning of gender in the human experience as it intersects with ethnicity, sexuality, race, and various other elements of diversity. It is a liberal arts degree that emphasizes

the development of critical thinking and effective communication skills, and can be applied to a variety of careers.

The major features a global track, a sexuality track, and a gender track. The global track focuses on the study of women and gender from an international and cross-cultural perspective. The sexuality track focuses on the study of gender and sexuality as categories of social and cultural analysis. The general track offers a variety of courses that address gender and related topics. Students graduating with a major in Women's Studies will have the ability to understand the well-developed body of feminist theories that grounds the discipline, and the ability to apply those theories to a wide range of contexts and experiences that vary within and across sexual and global cultures. Students are encouraged to complement their major in Women's Studies with minors in other fields and/or double-majors that are consistent with their educational and professional interests.

The major offers a number of core courses in Women's Studies as well as elective courses in African American Studies, art history, anthropology, classics and world religions, communication studies, English, film, geography, HCCF, history, ILMML, linguistics, physical education and sports science, political science, psychology, sociology, and telecommunications.

The Bachelor of Arts in Women's Studies is an interdisciplinary major within the College of Arts and Sciences, and requires the completion of all Arts and Sciences requirements.*

Core Requirements

Required of all Women's Studies majors:

WS 100	Intro to Women's Studies	4
WS 200	Issues in Feminism	4
WS 350	Feminist Theory	4

Select one of the following:

WS 360	The Women and Work Internships	4
WS 450	Advanced Feminist Theory	4

Select one of the following:

WS 410	Global Feminisms	4
WS 411	Women and Globalization	4

Select one of the following:

WS 320	Sexual Revolutions	4
WS 460	Gender, Sexuality, and Culture	4
WS 461	Queer Theory	4

Select one of the following:

WS 480	Capstone in Women's Studies	4
WS 481	Writing Gender	4

Track Requirements (20 hours)

Students will choose 12 hours from one track, and 8 hours from either of the other two tracks. NOTE: No more than 2 courses may be taken in any one discipline to fulfill Track requirements, nor can any single course be taken to fulfill both a Core and a Track requirement. In addition, no single course may be taken to satisfy more than one track.

Global

ANTH 345	Gender in Cross-Cultural Perspective	4
ANTH 349	Life History: The individual and Culture	4
ANTH 363	Gender in Prehistory	4
CLAS 343	Women in Ancient Mediterranean	4
HIST 332	Women in the Middle East	4
HIST 360A	Women in Early Modern Europe	4
HIST 360B	Women in Modern Europe	4

HIST 360C	Women Warriors	4
ILML 339A	Russian Lit in English: Women, Transgression, and Crime	4
ILML 339B	20th Century Russian Lit in English: Love, Sex, and Gender	4
SOC 421	Comparative Studies of the Family	4
WS 410	Global Feminisms	4
WS 411	Women and Globalization	4
Sexuality		
ENG 326	Lesbian and Gay Literature	4
HCCF 360	Human Sexualities	4
HCCF 462A	Diversity in Families	4
ILML 339A	Russian Lit in English: Women, Transgression, and Crime	4
ILML 339B	20th Century Russian Lit in English: Love, Sex, and Gender	4
POLS 319	Gay and Lesbian Politics	4
POLS 421	Politics of Law and Sexuality	4
PSY 378	Psychology of Gender	4
TCOM 484 (486A)	Age, Class, Gender, Race, and Sexuality in the Media	4
WS 320	Sexual Revolutions	4
WS 460	Gender, Sexuality, and Culture	4
WS 461	Queer Theory	4
General		
AAS 345	The Black Woman	4
AAS 482	The Black Family	4
COMS 320	Women and Health Communication	4
COMS 420	Gender and Communication	4
COMS 422	Communication and the Family	4
ENG 153A	Writing and Research: Gender	5
ENG 306J	Women and Writing	4
ENG 325	Women and Literature	4
HIST 320A	Women in American History before 1877	4
HIST 320B	Women in American History after 1877	4
HIST 320C	Women's Health and Medicine in America	4
HIST 381	History of the Family'	4
HLTH 210	Health of Women	4
LING 390	Language of Women and Men	4
PESS 400	Women in Sports	3
POLS 420	Women, Law, and Politics	4
POLS 478	Feminist Political Theories and Movements	4
PSY 378	Psychology of Gender	4
SOC 220	Introduction to the Family	4
SOC 407	Feminist Social Theory	4
SOC 422	The American Family System	4
SOC 467	Violence to Women	4
SOC 470	Sociology of Gender	4
SOC 471	Gender and Justice	4
TCOM 481	Women in Media	4
TCOM 484 (486A)	Age, Class, Gender, Race, and Sexuality in the Media	4
WS 210	Women, Gender, and Rock & Roll	4

*Courses which satisfy major credit, including track requirements, may not be used to fulfill Arts and Sciences area requirements.

World Religions

See Classics and World Religions.

Zoology

See Biological Sciences.