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

- Sociology/Psychology
  - AAS 234 African Amer. Personality 4
  - AAS 235 The Black Woman 4
  - AAS 236 Black Masculinities 4
  - AAS 240 The Black Child 5
  - AAS 482 The Black Family 4

- Political Science
  - AAS 230 Black Politics in U.S. 4
  - AAS 238 Black Political Thought 4
  - AAS 239 Urban Violence 4
  - AAS 430 Social Theories of Underdevelopment 4

Economics

- AAS 431 Third World Natl. Mvts. 4
- AAS 460 Social Processes: Third World Urbanization 4

Education

- AAS 380 Seminar in African American Education 4

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 archaeological archaeology.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Intro to Cultural Anth.</td>
<td>5</td>
</tr>
<tr>
<td>ANTH 201</td>
<td>Intro to Biological Anth.</td>
<td>5</td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Intro to World Archaeology</td>
<td>5</td>
</tr>
<tr>
<td><strong>4 hours of cultural anthropology selected from</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 345</td>
<td>Gender in Cross-Cultural Perspective</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 348</td>
<td>Education: Cross-Cultural Perspectives</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 349</td>
<td>Life History</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 350</td>
<td>Economic Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 351</td>
<td>Political Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 357</td>
<td>Anthropology of Religion</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 366</td>
<td>Cultures of the Americas</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 371</td>
<td>Ethnology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 372</td>
<td>Cultures of the World</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 373*</td>
<td>Perspectives in Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 375</td>
<td>Culture and Personality</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 376</td>
<td>Culture Contact and Change</td>
<td>4</td>
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<tr>
<td>ANTH 377</td>
<td>Peasant Communities</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 381</td>
<td>Cultures of Sub-Saharan Africa</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 383</td>
<td>Cultures of Latin America</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 385</td>
<td>Cultures of Southeast Asia</td>
<td>4</td>
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<tr>
<td>ANTH 386</td>
<td>Problems in Southeast</td>
<td>4</td>
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<tr>
<td>ANTH 387</td>
<td>Asian Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 455*</td>
<td>Seminar in Methodology and Field Research</td>
<td></td>
</tr>
<tr>
<td>ANTH 460</td>
<td>Kinship</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 472</td>
<td>History of Anthropological Thought</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 494A</td>
<td>Seminar in Cultural Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 494D*</td>
<td>Seminar in Human Ecology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 499*</td>
<td>Anth. Internship</td>
<td>1-4</td>
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4 hours of biological anthropology selected from

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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 346</td>
<td>Intro. to Human Osteology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 355</td>
<td>Medical Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 373*</td>
<td>Perspectives in Anth.</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 391</td>
<td>Primate Soc. Org.</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 447</td>
<td>Forensic Anth.</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 448</td>
<td>Blood, Bones, and Violence</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 492</td>
<td>Human Evolution</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 494B</td>
<td>Seminar in Biological Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 496</td>
<td>Human Diversity</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 499*</td>
<td>Anth. Internship</td>
<td>1-4</td>
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</tbody>
</table>

4 hours of archaeological anthropology from

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

28 additional hours in anthropology, of which 8 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Intro to Cultural Anth.</td>
<td>5</td>
</tr>
<tr>
<td>ANTH 201</td>
<td>Intro to Biological Anth.</td>
<td>5</td>
</tr>
<tr>
<td>or ANTH 202</td>
<td>Intro to World Archaeology</td>
<td>5</td>
</tr>
</tbody>
</table>

(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.

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

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.
College of Arts and Sciences

Freshman

BIOS 170(L), 171(L), 172, 173(L) Intro to Zoology 14
CHEM 151, 152, 153 Chemistry 15
PSY 221 Statistics 5
or MATH 250,251 Prob and Statistics 8
or 305, 306, 307
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 Organic Chemistry 6
or 305, 306, 307
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 Cell Chemistry 4
   - CHEM 490, 491 General Biochemistry I, II 7

2. Physiology and Body Systems
   - BIOS 342 and 345(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 Neuroal 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

Examine Pathologist 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 Statistics 5
or MATH 250, 251 Prob and Statistics 8
or 305, 306, 307
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 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOS 342, 354(L)</td>
<td>Prin. of Physiology I, Lab</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 343, 355(L)</td>
<td>Prin. Physiology II, Lab</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 407</td>
<td>Developmental Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 414</td>
<td>Molecular Cellular Neurosci</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 422(L)</td>
<td>Microbial Techniques</td>
<td>5</td>
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<tr>
<td>BIOS 424A</td>
<td>Virology</td>
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<tr>
<td>BIOS 425</td>
<td>Evolutionary Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 450</td>
<td>Principles of Endocrinology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 489(L)</td>
<td>Microbial Physiology</td>
<td>5</td>
</tr>
</tbody>
</table>

### 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 (e.g., 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

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>Intro to Zoology</td>
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<tr>
<td>172, 173</td>
<td>Intro to Zoology</td>
<td>14</td>
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<td>MATH 266A, 266B</td>
<td>Calculus w/App Biology</td>
<td>8</td>
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<td>CHEM 151, 152, 153</td>
<td>Chemistry</td>
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<tr>
<td>PSY 221 or MATH 250, 251</td>
<td>Statistics</td>
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<td>or Prob and Statistics</td>
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#### Sophomore

<table>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 325</td>
<td>Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 320</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 330</td>
<td>Evolution</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 301, 302</td>
<td>Organic Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 201, 202</td>
<td>Physics</td>
<td>10</td>
</tr>
<tr>
<td>or 251,252</td>
<td>Prob and Statistics</td>
<td>5</td>
</tr>
<tr>
<td>or 8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Junior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 431(L)</td>
<td>Aquatic Biology</td>
<td>5</td>
</tr>
</tbody>
</table>

#### Junior-Senior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 429(L)</td>
<td>Marine Biology</td>
<td>5</td>
</tr>
<tr>
<td>or BIOS 433(L)</td>
<td>Biol Monit Assess</td>
<td>or 4</td>
</tr>
<tr>
<td>BIOS 491</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

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

#### 1. Organismal (at least 5 credit hours required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 303(L)</td>
<td>Comp Vert Anat</td>
<td>6</td>
</tr>
<tr>
<td>BIOS 321(L)</td>
<td>Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 430(L)</td>
<td>Invertebrate Biology</td>
<td>6</td>
</tr>
<tr>
<td>BIOS 436(L)</td>
<td>Field Entomology</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 458(L)</td>
<td>Biology of Amphibians</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 465(L)</td>
<td>Ichthyology</td>
<td>6</td>
</tr>
</tbody>
</table>

#### 2. Ecology (one course required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 375</td>
<td>Animal Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 376(L)</td>
<td>Field Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 477</td>
<td>Population Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 478</td>
<td>Community Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 342, 354(L)</td>
<td>Prin. of Physiology I, Lab</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 426</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 462</td>
<td>Animal Phys Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 463</td>
<td>Cell Chemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

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
  - GEOL 453: Physical Limnology 4
  - GEOL 427: Water Geochemistry 4
  - GEOL 480: Principles of Hydrogeology 4
  - PBIO 420: Physiology 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 170(L), 171(L)</td>
<td>Intro to Zoology</td>
<td>14</td>
</tr>
<tr>
<td>172, 173</td>
<td>Intro to Zoology</td>
<td>14</td>
</tr>
<tr>
<td>CHEM 151, 152, 153</td>
<td>Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>PSY 221 or MATH 250, 251</td>
<td>Statistics</td>
<td>5</td>
</tr>
<tr>
<td>or 8 Prob and Statistics</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>or MATH 266A*</td>
<td>Calculus w/App Biology</td>
<td>4</td>
</tr>
</tbody>
</table>

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

#### Sophomore

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 325</td>
<td>Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 320</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 330</td>
<td>Principles of Evolution</td>
<td>4</td>
</tr>
<tr>
<td>or BIOS 385</td>
<td>Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 321(L)</td>
<td>General Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 201, 202, 203, 251, 252</td>
<td>Physics</td>
<td>15</td>
</tr>
<tr>
<td>or 251,252</td>
<td>Prob and Statistics</td>
<td>5</td>
</tr>
</tbody>
</table>

#### Junior-Senior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 486A, 491(L)</td>
<td>Immunology, Lab</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 489 (L)</td>
<td>Microbial Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 426</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 490, 491</td>
<td>General Biochemistry I, II</td>
<td>7</td>
</tr>
</tbody>
</table>

At least 12 hours, including 2 lab courses from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 326(L)</td>
<td>Lab Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 385</td>
<td>Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 422(L)</td>
<td>Microbiological Techniques</td>
<td>5</td>
</tr>
</tbody>
</table>
**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

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 170(L), 171(L)</td>
<td>Intro to Zoology</td>
<td>14</td>
</tr>
<tr>
<td>CHEM 151, 152, 153</td>
<td>Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>PSY 221</td>
<td>Statistics</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 250, 251</td>
<td>Prob and Statistics</td>
<td>or 8</td>
</tr>
<tr>
<td>MATH 266A*</td>
<td>Calculus w/App Biology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
<td>5</td>
</tr>
<tr>
<td>PSY 273</td>
<td>Child Adolescent Psy</td>
<td>4</td>
</tr>
</tbody>
</table>

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

### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 325</td>
<td>Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 320</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 330</td>
<td>Principles of Evolution</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 301, 302</td>
<td>Organic Chemistry</td>
<td>or 6</td>
</tr>
<tr>
<td>or 305, 306, 307</td>
<td></td>
<td>or 9</td>
</tr>
<tr>
<td>PHYS 201, 202, 203</td>
<td>Physics</td>
<td>15</td>
</tr>
<tr>
<td>or 251, 252, 253</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PT 259A</td>
<td>Intro to Phys. Therapy</td>
<td>2</td>
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</tbody>
</table>

### Junior-Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 301(L)</td>
<td>Human Anatomy</td>
<td>6</td>
</tr>
<tr>
<td>BIOS 345 and 346(L)</td>
<td>Human Physiology and Lab</td>
<td>7</td>
</tr>
<tr>
<td>BIOS 413(L)</td>
<td>Human Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 445 and 446(L)</td>
<td>Physiology of Exercise and Lab</td>
<td>7</td>
</tr>
<tr>
<td>BIOS 463</td>
<td>Cell Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 490 and 491</td>
<td>General Biochemistry I and II</td>
<td>7</td>
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</table>

**Recommended Elective:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 259B</td>
<td>Intro to PT-Clinical Exp.</td>
<td>3</td>
</tr>
</tbody>
</table>

### Additional recommended electives that fulfill Tier II and Arts and Sciences distribution requirements and are required by some PT schools:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 227</td>
<td>Greek and Latin Roots</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 101 or PHIL 130</td>
<td>Intro to Ethics</td>
<td>5</td>
</tr>
<tr>
<td>PSY 226</td>
<td>Research Methods in Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

### 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 170(L), 171(L)</td>
<td>Intro to Zoology</td>
<td>14</td>
</tr>
<tr>
<td>CHEM 151, 152, 153</td>
<td>Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>PSY 221</td>
<td>Statistics</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 250, 251</td>
<td>Prob and Statistics</td>
<td>or 8</td>
</tr>
<tr>
<td>MATH 266A*</td>
<td>Calculus w/App Biology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
<td>5</td>
</tr>
<tr>
<td>PSY 273</td>
<td>Child Adolescent Psy</td>
<td>4</td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 325</td>
<td>Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 320</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 330</td>
<td>Principles of Evolution</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 201, 202, 203</td>
<td>Physics</td>
<td>15</td>
</tr>
<tr>
<td>or 251, 252, 253</td>
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</tbody>
</table>

**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       |

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 303, 304</td>
<td>Organic Chemistry Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>General Psychology</td>
<td>5</td>
</tr>
</tbody>
</table>
**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**

**BIO**S 170(L), 171(L) Intro to Zoology 14

**CHEM** 151, 152, 153 Chemistry 15

**PSY** 221 Statistics 5

or **MATH** 250, 251 Prob and Statistics or 8

**MATH** 266A, 266B Calculus w/ App Biology 8

**Sophomore**

**BIO**S 325 Genetics 5

**BIO**S 320 Cell Biology 4

**BIO**S 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**

**BIO**S 303(L) Comp. Vert. Anatomy 6

**BIO**S 375 Animal Ecology 4

**BIO**S 376(L) Field Ecology 4

**BIO**S 491(L) Internships 3

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

**BIO**S 471(L) Ornithology 6

**BIO**S 474(L) Mammalogy 6

**BIO**S 477 Population Ecology 4

**BIO**S 478 Community Ecology 4

**BIO**S 481 Animal Conservation Bio 4

**BIO**S 458(L)* Biology of Amphibians 3

**BIO**S 459(L)* Biology of Reptiles 3

**BIO**S 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 Plant Population Biology 5

or PBIO 436 Plant Community Ecology 5

or PBIO 437 Ecosystem Ecology 4

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

**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** 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** 476 Fund. of Inorganic Chemistry 3

**CHEM** 478 Mod. Inorganic Chemistry 4

**CHEM** 489 Basic Biochemistry 4

**CHEM** 490-491-492 General Biochemistry 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

Extradepartmental 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 Organic Chemistry 6

or **CHEM** 305, 306, 307 Organic Chemistry or 9

**CHEM** 303, 304 Organic Chemistry Lab 5

or **CHEM** 308, 309 Organic Chemistry Lab 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 Physical Chemistry 4

or **CHEM** 453, 454, 455 Physical Chemistry or 9

**CHEM** 376 Fund. of Inorganic Chem. 3

**CHEM** 476 Mod. Inorganic Chem. 4

One course in biochemistry

---

**Biology**

See Biological Sciences or Environmental and Plant Biology

**Cartography**

See Geography, Geographic Information Science.
A full year's work is required in at least one of the following fields:

Organic: 305–306–307
Physical: 453–454–455
Biochemistry: 490–491–492

Extradenartmental 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 Organic Chemistry 8
CHEM 305, 306, 307 Organic Chemistry 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 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 Instr. Analysis 4
CHEM 431, 434 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 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 Spectrochm. Anal. Lab 2
CHEM 489 or CHEM 490, 491, 492 General Biochemistry 10

Extradenpartmental 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 or 9
CHEM 303, 304 Organic Chemistry Lab 5
CHEM 308, 309 Organic Chemistry Lab 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 435 Physical Chemistry 4
CHEM 453, 454, 455 Physical Chemistry 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:

Organic: 305–306–307
Physical: 453–454–455
Biochemistry: 490–491–492

Extradenartmental 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
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 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. 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

**Extradepartmental requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LET 100</td>
<td>Intro to Law Enforc. Tech.</td>
<td>3</td>
</tr>
<tr>
<td>LET 120</td>
<td>Const., Crim., Civil Law</td>
<td>3</td>
</tr>
<tr>
<td>LET 140</td>
<td>Intro to Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>LET 200</td>
<td>Proc., Rules, and Tests of Evidence</td>
<td>4</td>
</tr>
<tr>
<td>LET 250</td>
<td>Vice and Narcotic Cont.</td>
<td>3</td>
</tr>
<tr>
<td>LET 260</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>MATH 263A, B</td>
<td>Calculus</td>
<td>8</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
<td>General Physics</td>
<td>15</td>
</tr>
</tbody>
</table>

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 Calculus 8
or MATH 163A, B Intro to Calculus or 7

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

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

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

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

**Sophomore**
CHEM 241, 242 Quantitative Analysis 5
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.
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: Calculus 8
- or MATH 163A, B: Intro to Calculus 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 308, 309: Organic Lab 6
- CHEM 341, 342: Fund. Inorganic Chem. 3
- PHYS 251, 252, 253: General Physics 15
- or PHYS 201, 202, 203: Intro to Physics

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: Compar. Vert. Anatomy 6

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 263A, B: Calculus 8
- BIOS 170, 171, 172, 173: Intro to Zoology 14
- or MATH 163A, B: Intro to Calculus or 7

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

**Sophomore**
- CHEM 241, 242: Quantitative Analysis 5
- CHEM 308, 309: Organic Lab 6

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.

**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
- 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 303: Anatom. and Histology 6
- or BIOS 301: Human Anatomy 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 the 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. B-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

**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

**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 Theologies 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 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 4

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 ORS215
The World Religions minor consists of a minimum of 28 hours in courses under the prefix CLWR, including:
CLWR 181 Introduction to Religion 4
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 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:
To prepare for the annual foreign service officer examination, 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, Philosophy, Political Science, and Sociology. 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.

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**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 Hist. of the English Language 4
- or ENG 352 Dev. of American English 4
- or ENG 353 Struct. of American English 4
- or ENG 399 Literary Theory 4

Eight hours of:

- ENG 460, 464, 465, 466 Senior Seminar 4

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

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**College of Arts and Sciences**
The English minor consists of a minimum of 31 hours above 299, including:

- ENG 361: Creative Writing: Fiction 4
- ENG 362: Creative Writing: Poetry 4
- ENG 363: Creative Writing: Nonfiction 4
- ENG 399: Intro to Textual Analysis 4
- 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 of the following:

- ENG 250: Intro to Textual Analysis 4
- ENG 251: English Lit. 1660-1800 4
- ENG 321: American Lit. to 1865 4
- ENG 351: Hist. of the English Language 4
- or ENG 352: Dev. of American English 4
- or ENG 353: Struct. of American English 4
- or ENG 399: Literary Theory 4

Three 300- or 400-level electives

Four hours of:

- ENG 460, 464, 465, 466: Senior Seminar 4

Environmental and Plant Biology

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.
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./Wir. 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

Extradepartmental 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./Wir. 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

Extradepartmental 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, or MATH 263A, 263B  Intro to Calculus  7
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—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./Wir. Pres.  2
or PBIO 407  Undergrad Res./Oral Pres.  2
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
or CHEM 301, 302, 303, 304  Organic Chemistry, Lab  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  15
MATH 163A, B  Intro to Calculus  7
or MATH 263A, B  Calculus  8
or MATH 266 A, B*  Calculus with Bio App.  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.

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.
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:**

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

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:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBIO 418</td>
<td>Writing in the Life Sciences</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required nondepartmental courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 151, 152, 153</td>
<td>Fund. of Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>BIOS 171, 173</td>
<td>Intro to Zoology</td>
<td>6</td>
</tr>
<tr>
<td>or BIOS 173, 321</td>
<td>Intro to Zoology, Gen. Microbiology</td>
<td>6</td>
</tr>
<tr>
<td>or BIOS 435</td>
<td>Entomology</td>
<td>6</td>
</tr>
</tbody>
</table>

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

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

* Preferred math option

**Recommended electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Prin. of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Prin. of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 313</td>
<td>Econ. of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 375</td>
<td>Animal Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 430</td>
<td>Invertebrate Biology</td>
<td>6</td>
</tr>
<tr>
<td>BIOS 431</td>
<td>Limnology</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 435</td>
<td>Entomology</td>
<td>6</td>
</tr>
<tr>
<td>BIOS 477</td>
<td>Population Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 481</td>
<td>Animal Conservation Biol</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 260</td>
<td>Maps</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 302</td>
<td>Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 303</td>
<td>Climatology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 316</td>
<td>Biogeography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 353</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 417</td>
<td>Landscape Ecology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 440</td>
<td>Environ. Impact Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 447</td>
<td>Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 466</td>
<td>Remote Sensing</td>
<td>5</td>
</tr>
</tbody>
</table>

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/

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBIO 114</td>
<td>Foundations of Plant Biology</td>
<td>5</td>
</tr>
<tr>
<td>PBIO 115</td>
<td>Plant Structure and Development</td>
<td>4</td>
</tr>
<tr>
<td>PBIO 209</td>
<td>Plant Ecology</td>
<td>4</td>
</tr>
<tr>
<td>PBIO 210</td>
<td>Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>PBIO 211</td>
<td>Diversity of Life</td>
<td>5</td>
</tr>
<tr>
<td>PBIO 309</td>
<td>Plant Systematics &amp; Ohio Flora</td>
<td>6</td>
</tr>
<tr>
<td>PBIO 331</td>
<td>Plant Genetics</td>
<td>5</td>
</tr>
<tr>
<td>PBIO 322</td>
<td>Tropical Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>or PBIO 426</td>
<td>Physiological Pl. Ecology</td>
<td>5</td>
</tr>
<tr>
<td>or PBIO 435</td>
<td>Plant Population Biology</td>
<td>5</td>
</tr>
<tr>
<td>or PBIO 436*</td>
<td>Plant Community Ecology</td>
<td>5</td>
</tr>
<tr>
<td>or PBIO 437</td>
<td>Ecosystem Ecology</td>
<td>4</td>
</tr>
<tr>
<td>PBIO 404</td>
<td>Undergraduate Research</td>
<td>2</td>
</tr>
<tr>
<td>or PBIO 406</td>
<td>Undergrad Res./Writ. Pres.</td>
<td>2</td>
</tr>
<tr>
<td>or PBIO 407</td>
<td>Undergrad Res./Oral Pres.</td>
<td>2</td>
</tr>
<tr>
<td>or PBIO 490</td>
<td>Internship</td>
<td>2</td>
</tr>
</tbody>
</table>

*Strongly recommended. The vegetation analysis skills taught in PBIO 436, 436, and 437.

Required PBIO courses 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:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBIO 418</td>
<td>Writing in the Life Sciences</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required nondepartmental courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 171, 173</td>
<td>Intro to Zoology</td>
<td>6</td>
</tr>
<tr>
<td>or BIOS 173, 321</td>
<td>Intro to Zoology, Gen. Microbiology</td>
<td>6</td>
</tr>
<tr>
<td>or BIOS 435</td>
<td>Entomology</td>
<td>6</td>
</tr>
<tr>
<td>BIOS 220</td>
<td>Conservation and Biodiversity</td>
<td>4</td>
</tr>
</tbody>
</table>

4 additional hours of BIOS courses at 300–400 level (see recommended electives below)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121, 122, 123</td>
<td>Fund. of Chemistry</td>
<td>12</td>
</tr>
<tr>
<td>or CHEM 151, 152, 153</td>
<td>Fund. of Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Introduction to Geology</td>
<td>5</td>
</tr>
<tr>
<td>PSY 221</td>
<td>Stat. for Behavioral Sci.</td>
<td>5</td>
</tr>
</tbody>
</table>
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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 201</td>
<td>Environ. Geography</td>
<td>4</td>
</tr>
<tr>
<td>or GEO 215</td>
<td>Environ. Geology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 220</td>
<td>Conserv. and Biodiversity</td>
<td>4</td>
</tr>
<tr>
<td>or BIOS 275</td>
<td>Ecology for the 21st Century</td>
<td>4</td>
</tr>
<tr>
<td>or BIOS 375</td>
<td>Animal Ecology</td>
<td>5</td>
</tr>
<tr>
<td>or PBIO 209</td>
<td>Plant Ecology</td>
<td>4</td>
</tr>
<tr>
<td>POLS 425</td>
<td>Environmental and Natural Resource Politics and Policy</td>
<td>4</td>
</tr>
</tbody>
</table>

Quantitative Skills (4–5 hours)

Choose an approved course in statistics, such as

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 381</td>
<td>Intro to Econ. Statistics and Econometrics</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 271</td>
<td>Intro to Stat. in Geog.</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 471</td>
<td>Quantitative Methods</td>
<td></td>
</tr>
<tr>
<td>GEOL 205</td>
<td>Stat. Methods in Geol.</td>
<td>4</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Intro to Prob. and Stat.</td>
<td>4</td>
</tr>
<tr>
<td>MATH 450A</td>
<td>Theory of Statistics</td>
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</tr>
<tr>
<td>PBIO 415</td>
<td>Quantitative Methods</td>
<td>5</td>
</tr>
<tr>
<td>PESS 409</td>
<td>Tests and Measurements</td>
<td>4</td>
</tr>
<tr>
<td>POLS 483</td>
<td>SPSS</td>
<td>4</td>
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<tr>
<td>PSY 221</td>
<td>Stat. for Behavioral Sci.</td>
<td>5</td>
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<tr>
<td>ISE 304</td>
<td>Applied Engineering Statistics</td>
<td>3</td>
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<tr>
<td>IH 400</td>
<td>Industrial Hygiene Sampling and Analysis</td>
<td></td>
</tr>
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</table>

Natural Sciences (8–9 hours)

One chemistry course (any except CHEM 115)

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOS 221</td>
<td>Basic Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 376</td>
<td>Field Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 385</td>
<td>Microbial Ecology</td>
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<tr>
<td>BIOS 429</td>
<td>Marine Biology</td>
<td>5</td>
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<tr>
<td>BIOS 431</td>
<td>Limnology</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 481</td>
<td>Animal Conservation Biol.</td>
<td>4</td>
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<tr>
<td>CE 353</td>
<td>Basics of Environmental Engineering</td>
<td></td>
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<tr>
<td>CE 452</td>
<td>Water and Wastewater Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 330</td>
<td>Introduction to Toxicology</td>
<td>4</td>
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<tr>
<td>EH 260</td>
<td>Intro to Environmental Health and Safety</td>
<td>4</td>
</tr>
<tr>
<td>EH 310</td>
<td>Water Supply and Wastewater Environmental Health Practice</td>
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<tr>
<td>EH 312</td>
<td>Solid and Hazardous Waste Management</td>
<td>4</td>
</tr>
<tr>
<td>EH 440</td>
<td>Air Quality and Pollution Control</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 302</td>
<td>Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 315</td>
<td>Landforms and Landscapes</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 316</td>
<td>Biogeography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 417</td>
<td>Landscape Ecology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 231</td>
<td>Water and Pollution</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Prin. of Geomorphology</td>
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<td>GEOG 427</td>
<td>Water Geochemistry</td>
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<tr>
<td>GEOG 432</td>
<td>Origin and Classification of Soils</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 480</td>
<td>Hydrogeochemistry</td>
<td>4</td>
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<tr>
<td>PBIO 426</td>
<td>Physiol. Plant Ecology</td>
<td>5</td>
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<td>PBIO 435</td>
<td>Plant Population Biology</td>
<td>5</td>
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<td>PBIO 436</td>
<td>Plant Community Ecology</td>
<td>5</td>
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<tr>
<td>PBIO 437</td>
<td>Ecosystem Ecology</td>
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Social Sciences (8-9 hours)

Two courses in two different departments from the following

<table>
<thead>
<tr>
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<tr>
<td>ANTH 378</td>
<td>Human Ecology</td>
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<tr>
<td>ECON 313</td>
<td>Econ. of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>ECON 314</td>
<td>Natural Res. Economics</td>
<td>4</td>
</tr>
<tr>
<td>EH 275</td>
<td>Environ. and Occupational Health &amp; Safety Regulations</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 241</td>
<td>Global Issues in Environ. Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 344</td>
<td>Agricultural Ecosystems</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Land Use Planning</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 353</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 357</td>
<td>Environmental Law</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 358</td>
<td>Geography of Risk</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 440</td>
<td>Environ. Impact Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 447</td>
<td>Natural Resource Conservation</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 456</td>
<td>The City and the Environment</td>
<td>4</td>
</tr>
<tr>
<td>HIST 306</td>
<td>American Environ. History</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 335</td>
<td>Environmental Ethics</td>
<td>4</td>
</tr>
<tr>
<td>POLS 426</td>
<td>Politics of Environ. Mvt.</td>
<td>4</td>
</tr>
</tbody>
</table>
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 466  Air Photo Interpretation  4
GEOG 467  Principles of Remote Sensing  5
GEOG 468  Remote Sensing Applications  5
GEOG 474  Cartography III  5
GEOG 475  Application Development in GISc  4
GEOG 476  GIS Modeling and Simulation  4
GEOG 478  Field Methods  4
GEOG 479  Principles of GIS  5
GEOG 485  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
## Hours over 300 must include four courses from this list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 302</td>
<td>Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 303</td>
<td>Climatology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 315</td>
<td>Landforms and Landscapes</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 316</td>
<td>Biogeography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 321</td>
<td>Population Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 329</td>
<td>World Economic Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 344</td>
<td>Agricultural Ecosystems</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Land Use Planning</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 353</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 357</td>
<td>Environmental Law</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 358</td>
<td>Environ. Risk Assessment</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 411</td>
<td>Adv. Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 417</td>
<td>Landscape Ecology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 440</td>
<td>Environ. Impact Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 447</td>
<td>Natural Resource Conserv.</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 456</td>
<td>City and the Environment</td>
<td>4</td>
</tr>
</tbody>
</table>

## General requirement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121, 122, 123 or 151, 152, 153</td>
<td>Prin. of Chemistry or Fund. of Chemistry</td>
<td>12 or 15</td>
</tr>
<tr>
<td>MATH 163A, B or 263A, B or 266A, B</td>
<td>Intro to Calculus or Calculus w/Bio. Applications</td>
<td>7 or 8</td>
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</tbody>
</table>

## Recommended electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 201, 202, 203</td>
<td>Intro to Physics</td>
<td>15</td>
</tr>
</tbody>
</table>

## 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

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

*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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 101</td>
<td>Intro to Geology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 211</td>
<td>Intro Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 215</td>
<td>Environmental Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 231</td>
<td>Water and Pollution</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 312</td>
<td>Earth Materials and Resources</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 330</td>
<td>Prin. of Geomorphology</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 427</td>
<td>Water Geochemistry</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 432</td>
<td>Origin and Classification of Soils</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 439</td>
<td>Fluvial Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 471</td>
<td>Advanced Env. Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 480</td>
<td>Prin. of Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 481</td>
<td>Groundwater Flow Modeling</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 483</td>
<td>Field Hydrology</td>
<td>6</td>
</tr>
</tbody>
</table>

## Social Sciences (portion of Arts and Sciences social sciences area requirement)

### Required course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Prin. of Microeconomics</td>
<td>4</td>
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</tbody>
</table>

### Select two additional course from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 378</td>
<td>Human Ecology</td>
<td>4</td>
</tr>
<tr>
<td>ECON 313</td>
<td>Econ. of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>ECON 314</td>
<td>Natural Resources Econ.</td>
<td>4</td>
</tr>
<tr>
<td>HIST 306</td>
<td>American Env. History</td>
<td>4</td>
</tr>
<tr>
<td>HIST 333</td>
<td>Oil and World Power</td>
<td>4</td>
</tr>
<tr>
<td>POLS 425</td>
<td>Environ. and Natural Resource Politics and Policy</td>
<td>4</td>
</tr>
<tr>
<td>POLS 426</td>
<td>Pol. of the Env. Movement</td>
<td>4</td>
</tr>
<tr>
<td>POLS 488</td>
<td>Public Dispute Resolution</td>
<td>4</td>
</tr>
</tbody>
</table>

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

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**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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 201</td>
<td>Environ. Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 241</td>
<td>Global Issues</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 357</td>
<td>Environmental Law</td>
<td>4</td>
</tr>
</tbody>
</table>

### Only one technique course from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 365</td>
<td>Air Photo Interpretation</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 418</td>
<td>Biogeography Research</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 466</td>
<td>Remote Sensing</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 476</td>
<td>Field Methods</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 478</td>
<td>Principles of GIS</td>
<td>5</td>
</tr>
</tbody>
</table>

### Hours over 300 must include 4 courses from this list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 302</td>
<td>Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 303</td>
<td>Climatology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 315</td>
<td>Landforms and Landscapes</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 316</td>
<td>Biogeography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 321</td>
<td>Population Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 325</td>
<td>Political Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 329</td>
<td>World Economic Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 344</td>
<td>Agricultural Ecosystems</td>
<td>4</td>
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<td>GEOG 350</td>
<td>Land Use Planning</td>
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<td>Environmental Planning</td>
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<tr>
<td>GEOG 358</td>
<td>Environ. Risk Assessment</td>
<td>4</td>
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<td>GEOG 411</td>
<td>Adv. Physical Geography</td>
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<td>Landscape Ecology</td>
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<td>GEOG 440</td>
<td>Environ. Impact Analysis</td>
<td>4</td>
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<tr>
<td>GEOG 447</td>
<td>Natural Resource Conservation</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 456</td>
<td>City and the Environment</td>
<td>4</td>
</tr>
</tbody>
</table>
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 Prin. of Chemistry 12
- or CHEM 151, 152, 153 Fund. of Chemistry 15
- MATH 163A, B Intro to Calculus 7
- MATH 263A, B Calculus 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 381</td>
<td>Introduction to Economic Statistics</td>
<td>4</td>
</tr>
<tr>
<td>ISE 304</td>
<td>Applied Engineering Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 271</td>
<td>Intro to Statistics in Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 205</td>
<td>Statistical Methods in Geology</td>
<td>4</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Intro to Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PSY 221</td>
<td>Statistics for Behavioral Sciences</td>
<td>5</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMT 200</td>
<td>Introduction to Business Computing</td>
<td>4</td>
</tr>
<tr>
<td>CS 120</td>
<td>Computer Literacy</td>
<td>4</td>
</tr>
<tr>
<td>CTECH 125</td>
<td>Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 268</td>
<td>GIS and Mapping Sciences</td>
<td>4</td>
</tr>
<tr>
<td>IT 103</td>
<td>Computer App. in Industrial Technology</td>
<td>4</td>
</tr>
<tr>
<td>MIS 201</td>
<td>Introduction to Microcomputers</td>
<td>3</td>
</tr>
</tbody>
</table>

## Core Courses (3 courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 360</td>
<td>Cartography I</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 466</td>
<td>Principles of Remote Sensing</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 478</td>
<td>Principles of GIS</td>
<td>5</td>
</tr>
</tbody>
</table>

## Support Courses (2 courses)

### Programming—Choose one course from the following (5 hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 210</td>
<td>Programming in C</td>
<td>5</td>
</tr>
<tr>
<td>CS 230</td>
<td>Computer Programming I</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 474</td>
<td>Application Development in GISc</td>
<td>4</td>
</tr>
</tbody>
</table>

### Database Management—(4 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 235</td>
<td>Advanced Microcomputer</td>
<td>4</td>
</tr>
</tbody>
</table>

## Capstone Course (1 course)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 485A</td>
<td>GIS Certificate Internship</td>
<td>5</td>
</tr>
</tbody>
</table>

## 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151</td>
<td>Fund. of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 152</td>
<td>Fund. of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Physical Geography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Intro to Geography</td>
<td>5</td>
</tr>
<tr>
<td>MATH 263A, B, C</td>
<td>Calculus (or advanced placement)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>English Composition</td>
<td>5</td>
</tr>
</tbody>
</table>

### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 201</td>
<td>Environ. Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEO 211</td>
<td>Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MATH 263D</td>
<td>Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 340</td>
<td>Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Vector Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 441</td>
<td>Fourier Series and Partial Diff. Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
<td>General Physics</td>
<td>15</td>
</tr>
</tbody>
</table>

### Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 302</td>
<td>Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 303</td>
<td>Climatology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 304</td>
<td>Observ. in Meteorology</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 305</td>
<td>Pract. in Meteorological Forecasting</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 311, 312</td>
<td>Mechanics</td>
<td>8</td>
</tr>
</tbody>
</table>

### Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 406</td>
<td>Intro to Synoptic Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 407</td>
<td>Adv. Synoptic Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 414</td>
<td>Dynamic Meteorology I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 415</td>
<td>Dynamic Meteorology II</td>
<td>4</td>
</tr>
</tbody>
</table>

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

### Geography emphasis requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 121</td>
<td>Human Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 315</td>
<td>Landforms and Landscape</td>
<td>5</td>
</tr>
<tr>
<td>or GEOG 316</td>
<td>Biogeography</td>
<td>4 or 5</td>
</tr>
<tr>
<td>or GEOG 411</td>
<td>Adv Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 360</td>
<td>Cartography I</td>
<td>4</td>
</tr>
<tr>
<td>or GEOG 365</td>
<td>Air Photo Interpretation</td>
<td>4</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 326</td>
<td>Urban Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Land Use Planning</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 456</td>
<td>The City &amp; the Environment</td>
<td>4</td>
</tr>
</tbody>
</table>

### Two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 327A</td>
<td>Social Geographics</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 329</td>
<td>World Economic Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 353</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 455</td>
<td>Evolution of Planning</td>
<td>4</td>
</tr>
</tbody>
</table>

### Choice of two technique courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 360</td>
<td>Cartography I</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 361</td>
<td>Cartography II</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 365</td>
<td>Air Photo Interpretation</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 466</td>
<td>Remote Sensing</td>
<td>5</td>
</tr>
</tbody>
</table>
GEOG 468  Cartography III  5  
GEOG 478  Principles of GIS  5  

Three of the following: 
GEOL 101  Intro to Geology  5  
GEOL 231  Water & Pollution  4  
or GEOL 330  Prin. of Geomorphology  
GEOL 315  Landforms & Landscapes  5  
GEOL 316  Biogeography  4  
GEOL 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. 
ECON 103  Prin. of Microeconomics  4  
or ECON 303  Microeconomics  
ECON 104  Prin. of Macroeconomics  4  
or ECON 304  Macroeconomics  
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 & 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: 
GEOL 101  Intro to Geology  5  
or GEOL 202  Introductory Geology Lab (1) 
Plus one of the following: GEOL 120, 130, 170, 211, 215, 221, 231 (4) 
And: 
Core Courses (57 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 420  Petrography  5  
GEOL 446  Earth Systems Evolution  4  
GEOL 466  Geodynamics  4  
GEOL 475A  Field Geology I  4  
GEOL 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 10–15 
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: 
GEOL 101  Intro to Geology  5  
or GEOL 202  Introductory Geology Lab (1) 
Plus one of the following: GEOL 120, 130, 170, 211, 215, 221, 231 (4) 
And: 
Core Courses (26 credit hours) 
GEOL 205  Statistical Methods in Geology  4  
GEOL 255  Historical Geology  4  
GEOL 330  Principles of Geomorphology  5  
GEOL 340  Prin. of Invertebrate Paleontology  4  

*Discuss the selection of an appropriate physics sequence with your advisor. PHYS 203 may be required for some graduate programs.
Students may take either of the following two options for this part of the core course requirement (9 credit hours).

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

Capstone Course (4 credit hours)
GEOL 466 Geodynamics 4
Or
GEOL 446 Earth Systems Evolution 4
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
Or
GEOL 202 Introductory Geology Lab (1)
Plus one of the following: GEOL 120, 130, 170, 211, 215, 221, 231 (4)

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 Economics of the Environment 4
or ECON 314 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.ohiou.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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>132</td>
<td>Intro to Non-Western History to 1750</td>
<td>4</td>
</tr>
<tr>
<td>133</td>
<td>Intro to Non-Western History Since 1750</td>
<td>4</td>
</tr>
<tr>
<td>200</td>
<td>Survey: U.S. History, 1600-1865</td>
<td>4</td>
</tr>
<tr>
<td>201</td>
<td>Survey: U.S. History, 1865-present</td>
<td>4</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Western Civ. in Modern Times (Renaissance-1648)</td>
<td>4</td>
</tr>
<tr>
<td>102</td>
<td>Western Civ. in Modern Times (1648-1848)</td>
<td>4</td>
</tr>
<tr>
<td>103</td>
<td>Western Civ. to Modern Times (1848-Present)</td>
<td>4</td>
</tr>
<tr>
<td>121</td>
<td>Western Heritage: Classical</td>
<td>4</td>
</tr>
<tr>
<td>122</td>
<td>Western Heritage: Medieval</td>
<td>4</td>
</tr>
<tr>
<td>123</td>
<td>Western Heritage: Modernity</td>
<td>4</td>
</tr>
</tbody>
</table>

32 hours at the 300–400 level, including

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>301J</td>
<td>Historical Research and Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

(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 (18 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
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 340 Applied Anthropology
ANTH 345 Gender in Cross-Cultural Perspectives
ANTH 347 Economic Anthropology
ANTH 351 Political Anthropology
ANTH 353 Anthropology of Violence and Peace
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 347 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 340 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 Carribean
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

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
GEON 330 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* Focus on Malaysia
INST 350 Modern Asian
INST 490 Tun Razak Seminar
JPC 250 Intro to Japanese Culture
JPC 450 Japan: A Sociocultural Interpretation
JPC 348 Readings in Japanese Culture

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 434 20th Century French Lit.
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 265B 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*  Latin America Survey
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**  Russian Civilization and Culture
RUS 348/49  Intro to Russian Literature
RUS 355/56  Russian Lit of the Soviet Era
RUS 429  Russian Lit of the Soviet Era
RUS 441  Stylistics
SPAN 345  Business Spanish
SPAN 348  Spanish Civ and Culture
SPAN 348  Dialectology
SPAN 354/55/56  Dramatizations of the Hispanic World (when topic is Hispanic literature)
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**  Cultures of Latin America
CON 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 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  Span. Lit. in English (when topic is Latin American Lit.)
INST 121*  Latin America Survey
POLS 343  Government and Politics of Latin America
POLS 345  Revolutions in Latin America
POLS 479  Latin American Political Thought
POLS 490**  Business Spanish
SPAN 345  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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 341</td>
<td>Adv. Italian Conversation and Composition</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 342</td>
<td>Adv. Italian Conversation and Composition</td>
<td>4</td>
</tr>
<tr>
<td>ILML 335</td>
<td>Topics in Italian Lit/Film (in translation)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total:</strong> 12</td>
<td></td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH 323</td>
<td>Italian Renaissance Art</td>
<td>4</td>
</tr>
<tr>
<td>AH 425</td>
<td>High Renaissance and Mannerism</td>
<td>4</td>
</tr>
<tr>
<td>AH 300X</td>
<td>European Art</td>
<td>4</td>
</tr>
<tr>
<td>AH 323X</td>
<td>Italian Renaissance Art</td>
<td>4</td>
</tr>
<tr>
<td>AH 326X</td>
<td>The Baroque</td>
<td>4</td>
</tr>
<tr>
<td>AH 340X</td>
<td>Art and Ideas in Painting</td>
<td>4</td>
</tr>
<tr>
<td>AH 425X</td>
<td>High Renaissance</td>
<td>4</td>
</tr>
<tr>
<td>ILML 335</td>
<td>Various Topics in Italian Literature and Film, repeatable for credit</td>
<td>4</td>
</tr>
<tr>
<td>HIST 356A</td>
<td>The Italian Renaissance</td>
<td>4</td>
</tr>
</tbody>
</table>

**Group 2:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAR 212</td>
<td>Roman Archaeology</td>
<td>4</td>
</tr>
<tr>
<td>CLAR 362</td>
<td>The Archaeology of Roman Cities</td>
<td>4</td>
</tr>
<tr>
<td>CLAR 352X</td>
<td>Ancient Rome: Development of the City</td>
<td>4</td>
</tr>
<tr>
<td>CLAS 254</td>
<td>Rome Under the Caesars</td>
<td>4</td>
</tr>
<tr>
<td>CLAS 401</td>
<td>Life of the Romans</td>
<td>4</td>
</tr>
<tr>
<td>or CLAS 401X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 329C</td>
<td>Ancient Rome</td>
<td>4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>404A</td>
<td>Reconstructing Roman Slavery</td>
<td>4</td>
</tr>
<tr>
<td>410B</td>
<td>The Age of Michelangelo</td>
<td>4</td>
</tr>
<tr>
<td>496M</td>
<td>The Renaissance in Machiavelli</td>
<td>4</td>
</tr>
</tbody>
</table>

**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.

**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.

**Latin**

See Classics and World Religions.

**Latin American Studies**

See International Studies.
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 Intro. to Lang. and Culture 4
- or LING 280 Language in America 4
- LING 350 Intro. to Linguistics 5
- or LING 351 Fundamentals of Linguistics 5
- LING 330 Intro. to Psycholinguistics 4
- or LING 475 Theories of Lang. Learning 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 ORJPN
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.
### 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 263A, B, C</td>
<td>Calculus</td>
<td>12</td>
</tr>
</tbody>
</table>

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

#### Sophomore

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 263D</td>
<td>Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 306</td>
<td>Found. of Math. I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 314</td>
<td>Elem. Abstract Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 360</td>
<td>Intermediate Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

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

#### Junior—Senior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 411</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 413A, B</td>
<td>Intro to Mod. Algebra</td>
<td>8</td>
</tr>
<tr>
<td>MATH 480A, B, C</td>
<td>Advanced Calculus</td>
<td>12</td>
</tr>
</tbody>
</table>

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 are required in ONE of the following areas: engineering, computer science, natural sciences, social sciences, or business.

#### Junior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 263A, B, C, D</td>
<td>Calculus</td>
<td>16</td>
</tr>
<tr>
<td>MATH 306</td>
<td>Found. of Mathematics I</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Senior

Two courses in computer programming or quantitative methods (see advisor for approved list) 10

### 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151</td>
<td>Fund. of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 152</td>
<td>Fund. of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Elements of Physical Geog.</td>
<td>5</td>
</tr>
<tr>
<td>GEOI 101</td>
<td>Intro to Geology</td>
<td>5</td>
</tr>
<tr>
<td>MATH 263A, B, C</td>
<td>Calculus (or advanced placement)</td>
<td>12</td>
</tr>
<tr>
<td>MATH 306</td>
<td>Found. of Mathematics I</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Sophomore

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 201</td>
<td>Environmental Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOI 211</td>
<td>Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MATH 263D</td>
<td>Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 340</td>
<td>Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Vector Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 441</td>
<td>Fourier Series and Partial Diff. Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
<td>General Physics</td>
<td>15</td>
</tr>
</tbody>
</table>

#### Junior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 302</td>
<td>Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 303</td>
<td>Climatology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 304</td>
<td>Observations in Meteorology</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 305</td>
<td>Pract. in Meteorological Forecasting</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 311, 312</td>
<td>Mechanics English composition</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Senior
This must be taken and passed at least one quarter prior to graduation. For more information contact the Modern Languages Department (Gordy 283).

The major requirement in Russian is a minimum of 36 quarter hours beyond 213. Specific requirements are 341, 342, 343, 348 or 349, 355, 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, 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; 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.
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.

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, 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, 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; 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).

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.
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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 310</td>
<td>History of Western Phil.: Ancient</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 312</td>
<td>History of Western Phil.: Modern</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 320</td>
<td>Symbolic Logic I</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 490</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 101</td>
<td>Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>or PHIL 130</td>
<td>Introduction to Ethics</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 240</td>
<td>Social and Political Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 310</td>
<td>History of Western Philosophy: Ancient</td>
<td>5</td>
</tr>
<tr>
<td>or PHIL 312</td>
<td>History of Western Philosophy: Modern</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 320</td>
<td>Symbolic Logic I</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 440</td>
<td>Contemporary Social Philosophy</td>
<td>5</td>
</tr>
<tr>
<td>or PHIL 442</td>
<td>Philosophy of Law</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 490</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>S4 quarter hours of physics, including</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 210</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
</tr>
<tr>
<td>PHYS 254</td>
</tr>
<tr>
<td>PHYS 272, 273</td>
</tr>
<tr>
<td>PHYS 311, 312</td>
</tr>
<tr>
<td>PHYS 371, 372, 373</td>
</tr>
<tr>
<td>PHYS 411</td>
</tr>
<tr>
<td>PHYS 427, 428</td>
</tr>
<tr>
<td>PHYS 451</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>S4 quarter hours of physics, including</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 210</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
</tr>
<tr>
<td>PHYS 254</td>
</tr>
</tbody>
</table>

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 fundamentals for continued development of the technology from foundational 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**

<table>
<thead>
<tr>
<th>English composition 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 210</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
</tr>
<tr>
<td>PHYS 254</td>
</tr>
</tbody>
</table>

**Sophomore**

| MATH 263A, B, C | Calculus 12 |
| MATH 340  | Differential Equations 4 |
| MATH 410*  | Matrix Theory 4 |
| ASTR 305  | Fundamentals 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 |

**Junior**

<table>
<thead>
<tr>
<th>English composition 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 440</td>
</tr>
<tr>
<td>MATH 441</td>
</tr>
<tr>
<td>ASTR 402</td>
</tr>
</tbody>
</table>
### 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151</td>
<td>Fund. of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 152</td>
<td>Fund. of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Elements of Physical Geog.</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Intro to Geology</td>
<td>5</td>
</tr>
<tr>
<td>MATH 263A, 263C</td>
<td>Analytic Geom. and Calc.</td>
<td>12</td>
</tr>
<tr>
<td>PHYS 210</td>
<td>Physics Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 201</td>
<td>Environmental Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 211</td>
<td>Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MATH 263D</td>
<td>Analytic Geom. and Calc.</td>
<td>4</td>
</tr>
<tr>
<td>MATH 340</td>
<td>Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Vector Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 441</td>
<td>Fourier Series and Partial Diff. Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
<td>General Physics</td>
<td>15</td>
</tr>
</tbody>
</table>

#### Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 302</td>
<td>Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 303</td>
<td>Climatology</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 304</td>
<td>Observations in Meteorology</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 305</td>
<td>Pract. in Meteorological Forecasting</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 311, 312</td>
<td>Mechanics</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>English composition</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two courses in computer programming or quantitative methods (see advisor for approved list)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>GEOG 406</td>
<td>Intro to Synoptic Meteorology</td>
<td>5</td>
</tr>
</tbody>
</table>

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

#### Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 310**</td>
<td>Astronomy Lab</td>
<td>1–3</td>
</tr>
<tr>
<td>ASTR 410**</td>
<td>Observ. Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 450**</td>
<td>Studies in Astronomy</td>
<td>1–3</td>
</tr>
<tr>
<td>PHYS 411</td>
<td>Thermodynamics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 412*</td>
<td>Kinetic Theory and Stat. Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 427, 428</td>
<td>Elec. and Magnetism</td>
<td>8</td>
</tr>
<tr>
<td>PHYS 429*</td>
<td>Electromag. and Relativity</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 451*</td>
<td>Quantum Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>

**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.**

### 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:

1. **American politics**

2. **World politics**

3. **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 305I, 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 BA4402**

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 State Politics 4
or POLS 320 Urban Politics
ECON 103 Microeconomics 4
ECON 104 Macroeconomics 4
CS 120 Computer Literacy 4
PSY 221 Statistics for Beh. Sciences 5
or QBA 201 Intro to Business Statistics or 4
or POLS 482 Quant. Political Analysis 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 485 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
### College of Arts and Sciences

#### At least four courses at the 300 level or above
- MATH 115, 117, 118, 120, 121, 122, and 320. You may choose MATH 113, 114, 115, 116, 117, 118, 120, 121, 122, and 320.
- At least four courses at the 300 level or above

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 336</td>
<td>Social Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 337</td>
<td>Social Psych. of Justice</td>
<td>4</td>
</tr>
<tr>
<td>PSY 361</td>
<td>Adv. Org. Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 362</td>
<td>Personnel Psych.</td>
<td>4</td>
</tr>
<tr>
<td>PSY 490</td>
<td>Seminars</td>
<td>3-5</td>
</tr>
</tbody>
</table>

**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:

- Biological: 201, 203, 312, 314, 327, 380, 490*
- Cognitive: 304, 305, 307, 308, 490*
- Developmental: 273, 275, 315, 374, 376, 378, 470, 490*
- Clinical: 233, 332, 341, 431, 430, 490*
- 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**

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

**Sophomore—Junior**

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

**Sophomore—Junior—Senior**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 374</td>
<td>Adulthood and Aging</td>
<td>4</td>
</tr>
<tr>
<td>PSY 489***</td>
<td>Fieldwork</td>
<td>0-5</td>
</tr>
</tbody>
</table>
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, students must maintain a cumulative g.p.a. of 2.5. Please contact the Department of Social Work for further details.

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
- **BIOS 105**: Intro to Social Welfare and Social Work 3
- **BIOS 106**: Social Welfare as an Inst. 4
- **BIOS 107**: Res. Meth. in Social Work 4
- **BIOS 108**: Intro to Social Work Practice Methods 4
- **BIOS 109**: Social Policy 4
- **BIOS 110, 111**: Dyn. of Human Behavior 1, 11 8
- **BIOS 112, 113**: Social Work Practice I, II, III 12
- **BIOS 114A, 114B, 114C**: Integrative Seminar 6
- **BIOS 115A, 115B, 115C**: Field Practicum 14

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 4

*WILL NOT COUNT TOWARDS 90 HRS OF A&S 200 LEVEL OR ABOVE REQUIREMENT.*
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 4

**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 4
PSY 337 Social Psychology of Justice 4
POLS 404 Civil Liberties 4
POLS 409 Criminal Procedure 4

* 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
Students with 45 or more credits transferring from other colleges 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WS 100</td>
<td>Intro to Women's Studies</td>
<td>4</td>
</tr>
<tr>
<td>WS 200</td>
<td>Issues in Feminism</td>
<td>4</td>
</tr>
<tr>
<td>WS 350</td>
<td>Feminist Theory</td>
<td>4</td>
</tr>
<tr>
<td>WS 480</td>
<td>Capstone in Women's Studies</td>
<td>4</td>
</tr>
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</table>

14 quarter hours from the following*:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AAS 345</td>
<td>The Black Woman</td>
<td>4</td>
</tr>
<tr>
<td>AAS 411</td>
<td>Racial Performativity</td>
<td>4</td>
</tr>
<tr>
<td>AAS 482</td>
<td>The Black Family</td>
<td>4</td>
</tr>
<tr>
<td>AH 411</td>
<td>Representation of Gender in History of Art</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 345</td>
<td>Gender in Cross-Cultural Perspective</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 349</td>
<td>Life History: The Individual and Culture</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 363</td>
<td>Gender in Prehistory</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 202</td>
<td>Sex Differences and the Brain</td>
<td>4</td>
</tr>
<tr>
<td>CLAS 343</td>
<td>Women in the Ancient Mediterranean</td>
<td>4</td>
</tr>
<tr>
<td>CLWR 484</td>
<td>Women and Religion</td>
<td>4</td>
</tr>
<tr>
<td>COMS 320</td>
<td>Women and Health Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMS 420</td>
<td>Gender and Comm.</td>
<td>4</td>
</tr>
<tr>
<td>COMS 422</td>
<td>Comm. in the Family</td>
<td>4</td>
</tr>
<tr>
<td>ENG 153A</td>
<td>Writing and Reading: Gender</td>
<td>5</td>
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<tr>
<td>ENG 306J</td>
<td>Women and Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENG 325</td>
<td>Women and Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENG 326</td>
<td>Lesbian and Gay Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENG 447</td>
<td>Studies in Criticism: Contemporary Feminist Theory</td>
<td>4</td>
</tr>
<tr>
<td>ENG 460</td>
<td>**Special Topics: Popular and Elite: Culture, Race, Class, and Gender in the American Renaissance</td>
<td>4</td>
</tr>
<tr>
<td>ENG 464</td>
<td>**Major English Authors: Woolf and Winterson</td>
<td>4</td>
</tr>
<tr>
<td>ENG 464</td>
<td>**Major English Authors: Mary Wollstonecraft and Her Circle</td>
<td>4</td>
</tr>
<tr>
<td>ENG 466</td>
<td>**Major Int'l. Authors: Contemporary Narratives of Exile</td>
<td>4</td>
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<tr>
<td>FILM 471</td>
<td>Film Topics Seminar: Masculinity and Film</td>
<td>4</td>
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<tr>
<td>FILM 472</td>
<td>Film Topics Seminar: Primitivism and Film</td>
<td>4</td>
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<tr>
<td>GEOG 327A</td>
<td>Social Geographies</td>
<td>4</td>
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<tr>
<td>HCCF 360</td>
<td>Human Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>HCCF 462A</td>
<td>Diversity in Families</td>
<td>3</td>
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<tr>
<td>HIST 320A</td>
<td>Women in American History Before 1877</td>
<td>4</td>
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<td>Nineteenth-Century Russian Literature in English: Women, Transgression and Crime</td>
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<td>**Studies in Political Science: Gender and Political Development in Africa</td>
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<td>Women and the Media</td>
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<td>TCOM 486A</td>
<td>Age, Class, Gender, Race, and Sexuality in the Media</td>
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<td>Women, Gender, and Rock and Roll</td>
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<td>WS 320</td>
<td>Sexual Revolutions</td>
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<td>WS 360</td>
<td>Women and Work Internship</td>
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<td>WS 450</td>
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<td>WS 461</td>
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<tr>
<td>WS 493</td>
<td>Special Topics</td>
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</table>

* 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, ILML, 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 420 Gender 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.

<table>
<thead>
<tr>
<th>Track</th>
<th>Courses</th>
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<tbody>
<tr>
<td>Global</td>
<td>ANTH 345 Gender in Cross-Cultural Perspective 4</td>
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<td>ANTH 349 Life History: The individual and Culture 4</td>
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<td>ANTH 363 Gender in Prehistory 4</td>
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<td>CLAS 343 Women in Ancient Mediterranean 4</td>
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<td>HIST 332 Women in the Middle East 4</td>
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<td>HIST 360A Women in Early Modern Europe 4</td>
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<tr>
<td>Sexuality</td>
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<td>HCCF 360 Human Sexualities 4</td>
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<td>HCCF 462A Diversity in Families 4</td>
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<td>General</td>
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</table>

*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.