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

<table>
<thead>
<tr>
<th>History</th>
<th>AAS 225 Hist. of the Black Worker 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AAS 235 Comp. Neocolonialism 4</td>
</tr>
<tr>
<td></td>
<td>AAS 254 History of Injustice in U.S. 5</td>
</tr>
<tr>
<td></td>
<td>AAS 340 The Black Community in Post–WWII 4</td>
</tr>
<tr>
<td></td>
<td>AAS 364 Comp. Study of Injustice 4</td>
</tr>
<tr>
<td>Sociology/Psychology</td>
<td>AAS 341 African Amer. Personality 4</td>
</tr>
<tr>
<td></td>
<td>AAS 345 The Black Woman 4</td>
</tr>
<tr>
<td></td>
<td>AAS 430 Social Theories of Underdevelopment 4</td>
</tr>
<tr>
<td></td>
<td>AAS 440 The Black Child 5</td>
</tr>
<tr>
<td></td>
<td>AAS 482 The Black Family 4</td>
</tr>
<tr>
<td>Political Science</td>
<td>AAS 360 Black Politics in U.S. 4</td>
</tr>
<tr>
<td></td>
<td>AAS 368 Black Political Thought 4</td>
</tr>
<tr>
<td></td>
<td>AAS 370 Urban Violence 4</td>
</tr>
<tr>
<td></td>
<td>AAS 430 Social Theories of Underdevelopment 4</td>
</tr>
<tr>
<td>Economics</td>
<td>AAS 432 Third World Natl. Mtvs. 4</td>
</tr>
<tr>
<td></td>
<td>AAS 460 Social Processes: Third World Urbanization 4</td>
</tr>
<tr>
<td>Education</td>
<td>AAS 380 Seminar in African American Education 4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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>
</tbody>
</table>

4 hours of cultural anthropology selected from

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<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>
</tr>
<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 Sub-Saharan Africa</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 386</td>
<td>Problems in Southeast Asian Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 387</td>
<td>Pacific Island Cultures</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 455*</td>
<td>Seminar in Methodology and Field Research</td>
<td>4</td>
</tr>
</tbody>
</table>

ANTH 460    Kinship                               4
ANTH 472    History of Anthropological Thought    4
ANTH 494A   Seminar in Cultural Anthropology      4
ANTH 494D*  Seminar in Human Ecology              4
ANTH 499*   Anth. Internship                      1-4

4 hours of biological anthropology selected from

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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 Social 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 498</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>
</tr>
</tbody>
</table>

4 hours of archaeological anthropology from

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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 Archaeology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 455*</td>
<td>Seminar in Methodology and Field Research</td>
<td>4</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 hours must be at the 400 level divided between two of the three main areas above

*when topic is appropriate

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

Anthropology Minor

Minor Code OR4252

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

Requirements for a minor in anthropology are

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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</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. The non-major courses: BIOS 100, 103, 203, 204, 205, 220, 225, 275, and 392 do not count toward this minimum.

- **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.

### Requirements for the Minor in Biological Sciences

Minimum of 27 BIOS credit hours, including

<table>
<thead>
<tr>
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<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 170(L), 171(L), 172, 173(L)</td>
<td>Intro to Zoology</td>
<td>14</td>
</tr>
<tr>
<td>BIOS 320</td>
<td>Cell Biology</td>
<td>4</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 or 9</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

<table>
<thead>
<tr>
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<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 320</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 325</td>
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</tr>
<tr>
<td>BIOS 330</td>
<td>Principles of Evolution</td>
<td>4</td>
</tr>
</tbody>
</table>

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—Integrated Biology Major (B.S.)

**Major code BS2121**

This B.S. degree program in biological sciences is chosen by students who seek flexibility and breadth in their program. It is suited to students who plan to enter a graduate program in biology or students entering professional schools and includes a minimum of 54 hours in biology.

**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), 172, 173(L)</td>
<td>Intro to Zoology</td>
<td>14</td>
</tr>
</tbody>
</table>
This program prepares students for work in hospital laboratories, public health bureaus, and other laboratories concerned with medical diagnosis and investigation. The job market is excellent. Courses taken during the internship may count towards total credit hours in Biological Sciences if the student is registered at Ohio University, but do not substitute for particular course requirements. Students are strongly urged to see a clinical laboratory faculty advisor during their sophomore year if they are interested in this program.

Exercise Physiology
A student with an interest in exercise physiology may take courses designed to prepare for graduate studies in exercise or applied physiology. An Integrated Biological Sciences Major may pursue an emphasis in exercise physiology by taking Human Anatomy (BIOS 301) and Human Physiology (BIOS 345, 346) and Physiology of Exercise (BIOS 445, 446) as Junior/Seniors. Biomechanics (BIOS 352) is also highly recommended. A student interested in pursuing an emphasis in the field of exercise physiology must see the faculty advisor in that field by the end of sophomore year.

Neuroscience
Students who are interested in graduate study in neuroscience; neuroscience research in conjunction with a professional career in medicine, pharmacology, or dentistry; or research technician positions should consider this option. Integrated Biological Sciences Majors interested in this track must see the faculty advisor in the Neuroscience Program at the end of their sophomore year. 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. The Neuroscience Program provides, on a competitive basis, stipend and support for research 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 55 hours in BIOS.

Freshman
BIOS 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  8
MATH 266A, 266B  Calculus w/App Biology  8

Sophomore
BIOS 320  Cell Biology  4
BIOS 325  Genetics  5
BIOS 330  Principles of Evolution  4
BIOS 321(L)  General Microbiology  5
CHEM 303, 304  Organic Chemistry Labs  5
PHYS 201, 202, 203  Physics  15
or 251, 252 or 262, 253

College of Arts and Sciences

1. Molecular, Cellular, and Developmental Biology
- BIOS 463  Cell Chemistry  4
- or CHEM 490, 491  General Biochemistry I, II  or 7
- 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

2. Physiology and Body Systems
- BIOS 342 and 354(L)  Prin Physiology I, Lab  5
- BIOS 345 and 346(L)  Human Physiology, Lab  7

3. Form and Function
- BIOS 300(L)  Anatomy and Histology  6
- BIOS 301(L)  Human Anatomy  6
- BIOS 303(L)  Comp. Vertebrate Anatomy  6
- BIOS 430(L)  Invertebrate Biol  6
- BIOS 435(L)  Entomology  6

4. Evolution, Ecology, and Behavior
- BIOS 333  Neural Basis of Behavior  3
- BIOS 375  Animal Ecology  4
- BIOS 376(L)  Field Ecology  4
- BIOS 429(L)  Marine Biology  5
- BIOS 431(L)  Limnology  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
- 3 courses with a laboratory component 300 level or above.

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

1. Molecular, Cellular, and Developmental Biology
- BIOS 463  Cell Chemistry  4
- or CHEM 490, 491  General Biochemistry I, II  or 7
- 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

2. Physiology and Body Systems
- BIOS 342 and 354(L)  Prin Physiology I, Lab  5
- BIOS 345 and 346(L)  Human Physiology, Lab  7

3. Form and Function
- BIOS 300(L)  Anatomy and Histology  6
- BIOS 301(L)  Human Anatomy  6
- BIOS 303(L)  Comp. Vertebrate Anatomy  6
- BIOS 430(L)  Invertebrate Biol  6
- BIOS 435(L)  Entomology  6

4. Evolution, Ecology, and Behavior
- BIOS 333  Neural Basis of Behavior  3
- BIOS 375  Animal Ecology  4
- BIOS 376(L)  Field Ecology  4
- BIOS 429(L)  Marine Biology  5
- BIOS 431(L)  Limnology  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

A student in the Integrated Biology major may pursue one of the following special interests:

Clinical Laboratory Science and Medical Technology
Students in Integrated Biological Sciences or any other biological sciences major track may choose to enter a Clinical Laboratory Sciences internship provided they have taken Microbiology (BIOS 321) and Immunology (BIOS 486A and B).

A year spent in a licensed clinical facility qualifies a student to take the American Society of Clinical Pathologists registry exam to become an officially registered medical technologist. This program prepares students for work in hospital
### Biological Sciences—Marine, Freshwater, and Environmental Biology Major (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, freshwater or terrestrial organisms and their environments. Courses meet the requirements for admission to graduate programs in marine biology, zoology, ecology, and conservation biology. The program also provides the necessary background for jobs with state and federal agencies (i.e., USDA or EPA) charged with environmental protection, research and monitoring, and information collection. Tier II social science electives can be chosen to meet the requirements of the Environmental Studies Certificate. For federal job and employment information, see [http://www.usajobs.opm.gov/](http://www.usajobs.opm.gov/)

BS2126 includes a minimum of 57 hours in BIOS.

#### Freshman

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</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 or MATH 250, 251</td>
<td>Statistics or Prob and Statistics</td>
<td>5 or 8</td>
</tr>
<tr>
<td>MATH 266A, 266B</td>
<td>Calculus w/App Biology</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Sophomore

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 320</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 325</td>
<td>Genetics</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 330</td>
<td>Evolution</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 375</td>
<td>Animal Ecology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 301, 302</td>
<td>Organic Chemistry</td>
<td>6 or 9</td>
</tr>
<tr>
<td>PHYS 201, 202, 203</td>
<td>or 251, 252 or 262, 263</td>
<td>15</td>
</tr>
</tbody>
</table>

#### Junior-Senior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 311(L) or PBIO 211</td>
<td>Microbiology or Diversity of Life</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 342, 354(L) or BIOS 463</td>
<td>Prin of Physiology I, Lab or Cell Chemistry</td>
<td>5 or 4</td>
</tr>
<tr>
<td>BIOS 343, 355(L) or GEOG 201</td>
<td>Prin of Physiology II, Lab or Environmental Geography</td>
<td>5 or 4</td>
</tr>
<tr>
<td>BIOS 376(L) or BIOS 429(L) or BIOS 431(L)</td>
<td>Field Ecology or Marine Biology or Limnology</td>
<td>4 or 5</td>
</tr>
<tr>
<td>BIOS 303(L) or BIOS 430(L) or BIOS 435(L) or BIOS 465(L)</td>
<td>Comp. Vert. Anatomy or Invertebrate Zoology or Entomology or Ichthyology</td>
<td>6</td>
</tr>
<tr>
<td>BIOS 491(L)</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

### Biological Sciences—Microbiology Major (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>Hours</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 or MATH 250, 251</td>
<td>Statistics or Prob and Statistics</td>
<td>5 or 8</td>
</tr>
<tr>
<td>MATH 266A*</td>
<td>Calculus w/App Biology</td>
<td>8</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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 320</td>
<td>Cell Biology</td>
<td>4</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>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</td>
<td>or 251, 252 or 262, 263</td>
<td>15</td>
</tr>
</tbody>
</table>

#### Junior-Senior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 466A, 466B (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>BIOS 490, 491</td>
<td>General Biochemistry I, II</td>
<td>7</td>
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</tbody>
</table>

At least 12 hours, including 2 lab courses from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</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>Microbial Techniques</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 423A, 423B(L)</td>
<td>Pathogenic Bacteriology, Lab</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 424A</td>
<td>Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 427</td>
<td>Gene Regulation</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 441A, 441B(L)</td>
<td>Parasitology, Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

### Biological Sciences—Pre–Physical Therapy Major (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. 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.
Students who change special curricula (major codes) within Biology will 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 320</td>
<td>Cell Biology</td>
<td>4</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 301, 302</td>
<td>Organic Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>or 305, 306, 307</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>PHYS 201, 202, 203</td>
<td>Physics</td>
<td>15</td>
</tr>
<tr>
<td>or 251, 252 or 262, 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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</table>

**Recommended Elective:**

PT 259B Intro to PT-Clinical Exp. 3

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</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</td>
<td>Fund Philosophy</td>
<td>5</td>
</tr>
<tr>
<td>or PHIL 130</td>
<td>Intro to Ethics</td>
<td></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 (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 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 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(L)</td>
<td></td>
<td></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>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 320</td>
<td>Cell Biology</td>
<td>4</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>BIOS 321(L)</td>
<td>General Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 201, 202, 203</td>
<td>Physics</td>
<td>15</td>
</tr>
<tr>
<td>or 251, 252 or 262, 253</td>
<td></td>
<td></td>
</tr>
</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 3
  - (optional lab BIOS 486B) 2

- **Biological Sciences—Wildlife and Conservation Biology Major (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.
The B.S. degree program is chosen by students planning to teach chemistry at the secondary level, contact the Office of Student Services in the College of Education.

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.

Foreign language requirements should be met with German or Russian. Graduate schools generally require a reading knowledge of one or more foreign languages, with German and/or Russian recommended. Details of Ohio University’s M.S. and Ph.D. programs are given in the Graduate Catalog. All chemistry laboratory courses require a $45 breakage and supplies card, the unused portion of which will be refunded.

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.

Foreign language requirements should be met with German or Russian. Graduate schools generally require a reading knowledge of one or more foreign languages, with German and/or Russian recommended. Details of Ohio University’s M.S. and Ph.D. programs are given in the Graduate Catalog. All chemistry laboratory courses require a $45 breakage and supplies card, 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151-152-153</td>
<td>Fund. of Chemistry 15</td>
</tr>
<tr>
<td>CHEM 241</td>
<td>Quantitative Analysis 4</td>
</tr>
<tr>
<td>CHEM 242</td>
<td>Quant. Analysis Lab 1</td>
</tr>
<tr>
<td>CHEM 308, 309</td>
<td>Organic Chemistry Lab 6</td>
</tr>
<tr>
<td>CHEM 400A</td>
<td>Advanced Organic Lab 2</td>
</tr>
<tr>
<td>CHEM 400B</td>
<td>Advanced Inorganic Lab 2</td>
</tr>
<tr>
<td>CHEM 453, 454, 455</td>
<td>Physical Chemistry 9</td>
</tr>
<tr>
<td>CHEM 456, 457</td>
<td>Physical Chemistry Lab 6</td>
</tr>
<tr>
<td>CHEM 460</td>
<td>Spectroscopic Methods in Organic Chemistry 3</td>
</tr>
<tr>
<td>CHEM 476</td>
<td>Mod. Inorganic Chemistry 4</td>
</tr>
<tr>
<td>CHEM 489 or CHEM 490-491-492</td>
<td>Basic Biochemistry 4</td>
</tr>
<tr>
<td>CHEM 491</td>
<td>Internships 3</td>
</tr>
</tbody>
</table>

Any two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 431, 434</td>
<td>Chem. Sep. Methods, Lab 4</td>
</tr>
<tr>
<td>CHEM 432, 435</td>
<td>Chemical Instrumentation and Electrochemistry, Lab 4</td>
</tr>
<tr>
<td>CHEM 433, 436</td>
<td>Spectrochem. Anal., Lab 5</td>
</tr>
</tbody>
</table>

Extradepartmental requirements include MATH 262A-B-C-D and PHYS 251-252-253, which should be completed by the end of the second year. ENG 151 and 305J are recommended to meet English composition requirements.

Requirements for the B.A. degree in chemistry include a minimum of 63 hours of chemistry from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151, 152, 153</td>
<td>Fund. of Chemistry 15</td>
</tr>
<tr>
<td>CHEM 241</td>
<td>Quantitative Analysis 4</td>
</tr>
<tr>
<td>CHEM 242</td>
<td>Quant. Analysis Lab 1</td>
</tr>
<tr>
<td>CHEM 308, 309</td>
<td>Organic Chemistry Lab 6</td>
</tr>
<tr>
<td>CHEM 400A</td>
<td>Advanced Organic Lab 2</td>
</tr>
<tr>
<td>CHEM 400B</td>
<td>Advanced Inorganic Lab 2</td>
</tr>
<tr>
<td>CHEM 453, 454, 455</td>
<td>Physical Chemistry 9</td>
</tr>
<tr>
<td>CHEM 456, 457</td>
<td>Physical Chemistry Lab 6</td>
</tr>
<tr>
<td>CHEM 460</td>
<td>Spectroscopic Methods in Organic Chemistry 3</td>
</tr>
<tr>
<td>CHEM 476</td>
<td>Mod. Inorganic Chemistry 4</td>
</tr>
<tr>
<td>CHEM 489 or CHEM 490-491-492</td>
<td>Basic Biochemistry 4</td>
</tr>
<tr>
<td>CHEM 491</td>
<td>Internships 3</td>
</tr>
</tbody>
</table>

Any two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 431, 434</td>
<td>Chem. Sep. Methods, Lab 4</td>
</tr>
<tr>
<td>CHEM 432, 435</td>
<td>Chemical Instrumentation and Electrochemistry, Lab 4</td>
</tr>
<tr>
<td>CHEM 433, 436</td>
<td>Spectrochem. Anal., Lab 5</td>
</tr>
</tbody>
</table>

Extradepartmental requirements include MATH 262A-B-C-D and PHYS 251-252-253, which should be completed by the end of the second year. ENG 151 and 305J are recommended to meet English composition requirements.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 151, 152, 153</td>
<td>Fund. of Chemistry 15</td>
</tr>
<tr>
<td>CHEM 301, 302, 303</td>
<td>Organic Chemistry 8</td>
</tr>
</tbody>
</table>

Any two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 241 and 242</td>
<td>Quantitative Analysis 5</td>
</tr>
<tr>
<td>CHEM 351 or CHEM 453</td>
<td>Physical Chemistry 4 or 3</td>
</tr>
<tr>
<td>CHEM 489 or 490</td>
<td>Biochemistry 4</td>
</tr>
<tr>
<td>CHEM 376</td>
<td>Fund. Inorganic Chem. 3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151, 152, 153</td>
<td>Fund. of Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>MATH 263 A, B</td>
<td>Calculus</td>
<td>8</td>
</tr>
<tr>
<td>BIOS 170, 171, 172, 173</td>
<td>Intro to Zoology</td>
<td>14</td>
</tr>
</tbody>
</table>

Arts and Sciences degree and General Education Requirements.

Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 241, 242</td>
<td>Quantitative Analysis</td>
</tr>
<tr>
<td>CHEM 308, 309</td>
<td>Organic Lab</td>
</tr>
<tr>
<td>PHYS 201, 202, 203</td>
<td>Intro to Physics</td>
</tr>
<tr>
<td>BIOS 325</td>
<td>General Genetics</td>
</tr>
</tbody>
</table>

Arts and Sciences degree and General Education Requirements.

Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 325</td>
<td>Instr. Analysis</td>
</tr>
<tr>
<td>CHEM 431, 434</td>
<td>Chemical Separation Meth.</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>CHEM 490, 491, 492</td>
<td>General Biochemistry</td>
</tr>
<tr>
<td>CHEM 493</td>
<td>Biochemical Techniques</td>
</tr>
</tbody>
</table>

Arts and Sciences degree and General Education Requirements.

Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BIOS 426 or PBIO 450</td>
<td>Biotech. and Genetic Eng.</td>
</tr>
<tr>
<td>BIOS 342, 343</td>
<td>Prin. of Physiology</td>
</tr>
<tr>
<td>CHEM 494</td>
<td>Biochemical Research</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151, 152, 153</td>
<td>Fund. of Chemistry</td>
</tr>
<tr>
<td>CHEM 241</td>
<td>Quantitative Analysis</td>
</tr>
<tr>
<td>CHEM 242</td>
<td>Quantitative Analysis Lab</td>
</tr>
<tr>
<td>CHEM 308, 309</td>
<td>Organic Chemistry Lab</td>
</tr>
<tr>
<td>CHEM 400A</td>
<td>Advanced Organic Lab</td>
</tr>
<tr>
<td>CHEM 400B</td>
<td>Advanced Inorganic Lab</td>
</tr>
<tr>
<td>CHEM 453, 454, 455</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>CHEM 456, 457</td>
<td>Physical Chemistry Lab</td>
</tr>
<tr>
<td>CHEM 376</td>
<td>Fund. Inorganic Chem.</td>
</tr>
<tr>
<td>CHEM 476</td>
<td>Chem. Separation Meth.</td>
</tr>
<tr>
<td>CHEM 432</td>
<td>Chemical Instrumentation and Electrochemistry</td>
</tr>
<tr>
<td>CHEM 433</td>
<td>Spectrochemical Analysis</td>
</tr>
<tr>
<td>CHEM 434</td>
<td>Chemical Separations Lab</td>
</tr>
<tr>
<td>CHEM 435</td>
<td>Chemical Instrumentation and Electrochemistry Lab</td>
</tr>
<tr>
<td>CHEM 436</td>
<td>Spectrochem. Anal. Lab</td>
</tr>
<tr>
<td>CHEM 489 or CHEM 490, 491, 492</td>
<td>Basic Biochemistry</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>CHEM 325</td>
<td>Instr. Meth. of Analysis</td>
</tr>
</tbody>
</table>

Extradespartmental requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 263A–B–C–D</td>
<td>Calculus</td>
</tr>
<tr>
<td>PHYS 251–252–253</td>
<td>Intro to Physics</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151, 152, 153</td>
<td>Fundamentals of Chemistry</td>
</tr>
<tr>
<td>CHEM 241, 242</td>
<td>Quantitative Analysis, Lab</td>
</tr>
<tr>
<td>CHEM 301, 302</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 303, 304</td>
<td>Organic Chemistry Lab</td>
</tr>
<tr>
<td>CHEM 308, 309</td>
<td>Organic Chemistry Lab</td>
</tr>
<tr>
<td>CHEM 325</td>
<td>Instr. Meth. of Analysis</td>
</tr>
<tr>
<td>CHEM 431, 434</td>
<td>Chemical Separation Methods, Lab</td>
</tr>
<tr>
<td>CHEM 432, 435</td>
<td>Chemical Instrumentation and Electrochemistry, Lab</td>
</tr>
<tr>
<td>CHEM 433, 436</td>
<td>Spectrochemical Anal., Lab</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>CHEM 434, 454, 455</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>CHEM 436</td>
<td>Spectrochemical Analysis, Lab</td>
</tr>
<tr>
<td>CHEM 437</td>
<td>Fund. Inorganic Chem.</td>
</tr>
<tr>
<td>CHEM 476</td>
<td>Mod. Inorganic Chem.</td>
</tr>
</tbody>
</table>

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

- Physical: 453–454–455
- Biochemistry: 490–491–492

Extradespartmental requirements include MATH 163 A-B and PHYS 201-202-203, which should be completed by the end of the second year. ENG 151 and 305J are recommended to meet English Composition requirements.

Suggested electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 275</td>
<td>Animal Ecology</td>
</tr>
<tr>
<td>BIOS 221, 222</td>
<td>Env. Microbiology, Lab</td>
</tr>
<tr>
<td>CHEM 485</td>
<td>Intro to Toxicology</td>
</tr>
<tr>
<td>GEOG 357</td>
<td>Environmental Law</td>
</tr>
<tr>
<td>ECON 313</td>
<td>Econ. of the Environment</td>
</tr>
<tr>
<td>ECON 314</td>
<td>Nat. Res. Economics</td>
</tr>
<tr>
<td>ECON 335</td>
<td>Economics of Energy</td>
</tr>
<tr>
<td>CHE 461</td>
<td>Environ. Assessments</td>
</tr>
<tr>
<td>CE 452</td>
<td>Water and Wastewater Analysis</td>
</tr>
<tr>
<td>GEOG 201</td>
<td>Environmental Geography</td>
</tr>
<tr>
<td>GEOG 241</td>
<td>Global Issues in Env. Geog.</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Land Use Planning</td>
</tr>
<tr>
<td>GEOG 353</td>
<td>Environmental Planning</td>
</tr>
<tr>
<td>GEOG 440</td>
<td>Environ. Impact Analysis</td>
</tr>
<tr>
<td>GEOL 215</td>
<td>Environmental Geology</td>
</tr>
<tr>
<td>GEOL 241</td>
<td>Water and Pollution</td>
</tr>
<tr>
<td>GEOL 480</td>
<td>Hydrogeology</td>
</tr>
<tr>
<td>PBIO 410</td>
<td>Plants and Soil</td>
</tr>
<tr>
<td>PBIO 425</td>
<td>Plant Ecology</td>
</tr>
<tr>
<td>POLS 425</td>
<td>Env. and Natural Res. Economics</td>
</tr>
</tbody>
</table>
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:
CHEM 376  Fund. of Inorganic Chem. 3
CHEM 460  Spectroscopic Methods in Organic Chemistry 3
CHEM 400A  Adv. Organic Chem. Lab 2
CHEM 488A  Topics in Forensic Science I 3

Option 2:
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
LET 100  Intro to Law Enforc. Tech. 3
LET 120  Const., Crim., Civil Law 3
LET 140  Intro to Criminalistics 3
LET 200  Proc., Rules, and Tests of Evidence 4
LET 250  Vice and Narcotic Cont. 3
LET 260  Criminal Investigation 3
MATH 263A, B  Calculus 8
PHYS 251, 252, 253  General Physics 15
BIOS 170, 171  Intro to Zoology 10
BIOS 364  Forensic Biology 4
PSY 221  Statistics for the Behavioral Sciences 5

ENG 151 and 305J are recommended for meeting English composition requirements.

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

Chemistry—Premedicine Major (B.S. or B.A.)
Special curricula; major codes BS3312, BA3312
To major in chemistry and prepare for admission to dental school, you have the option of completing either of two degree programs: one leading to a B.S. and the other to a B.A. degree. Variations on these programs are possible; consult with your advisor. See also the premedicine major listed under Biological Sciences in this section.

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 7
or 7
English Composition 5

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

Sophomore
CHEM 241, 242  Quantitative Analysis 5
CHEM 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

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

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

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

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

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

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

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

English composition 5

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

Sophomore
CHEM 241, 242  Quantitative Analysis 5
CHEM 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

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.
leading to a B.S. and the other to a B.A. degree. Variations on these programs are possible; consult your advisor. See also the Biological Sciences premedicine major.

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 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 376 Fund. Inorganic Chem. 3
- PHYS 251, 252, 253 General Physics 15
- or PHYS 201, 202, 203 Intro to Physics 7

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

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

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

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

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

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

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

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

**Sophomore**
- CHEM 241, 242 Quantitative Analysis 5
- CHEM 308, 309 Organic Chem. 6
- CHEM 376 Fund. Inorganic Chem. 3
- PHYS 201, 202, 203 Intro to Physics 15

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

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

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

**Senior**
- CHEM 490, 491, 492 General Biochemistry 10
- BIOS 303 Comp. Vert. Anatomy 6

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

**Two of the following:**

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

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

**Thesis:**

- CLWR 490 Senior Research 2
- CLWR 491 Senior Research Writing 4

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

- PHIL 260 Philosophy of Religion 4
- GEOG 336 Religious Space and Place 4
- ANTH 357 Anthropology of Religion 4
- SOC 428 Sociology of Religion 4
- ENG 304 English Bible 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
Computer Science Major (B.A.)
Major code BA0701
In the College of Arts and Sciences you may earn a B.A. in Computer Science. The Russ College of Engineering and Technology awards the Bachelor of Science in Computer Science.
The B.A. requires successful completion of all Arts and Sciences requirements, including foreign language, and requires 49 credits in CS, as well as designated courses in EE and MATH listed below.
CS 240A, B, C Intro to Computer Science 13
CS 265 Computer Ethics 1
EE 102 Intro to Computer Engineering 3
EE 395A Intermediate Electrical & Computer Engr Design Exp. 4
CS 300 Intro to Discrete Structures 5
CS 320 Organization of Programming Languages 5
CS 361 Data Structures 5
CS 404 Design and Analysis of Algorithms 5
CS 406 Computation Theory 5
CS 442 Operating Systems and Computer Architecture I 5
CS 456 Software Design an Devel. 5
MATH 263A,B,C,D Calculus 16
*You must earn an overall GPA of 2.0 or better in computer science courses, including EE courses, as well as in the required extra-departmental courses, i.e. mathematics, chemistry, and physics.

Criminology
See Sociology—Criminology Major.

Dentistry
See Biological Sciences or Chemistry, Predentistry Major.

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

Economics (B.A.)

Major code BA4221

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

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

- **MATH 163A** Intro to Calculus 4

40 hours of economics, including:

- ECON 103 Prin. of Microeconomics 4
- ECON 104 Prin. of Macroeconomics 4
- ECON 303 Microeconomics 4
- ECON 304 Macroeconomics 4
- ECON 381 Intro to Econ. Statistics and Econometrics 4

or ECON 482 Topics in Econometrics

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

Courses for the prelaw track

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

Courses for the policy analysis track

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

Courses for the business economics track

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

Economics Minor

Minor code OR4221

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

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

At least two other courses at the 300 level or above

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

Special curriculum; major code BA4223

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

Economics—Prelaw Major (B.A.)

Special curriculum; major code BA4222

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

English

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

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

or **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

Ecology

See Biological Sciences or Environmental and Plant Biology.
English Creative Writing Major
Major code BA5232
The major requirement for the creative-writing-based B.A. degree consists of at least 67 hours above 199, including:

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

Two of the following seven:
ENG 301 Shakespeare: Histories 4
ENG 302 Shakespeare: Comedies 4
ENG 303 Shakespeare: Tragedies 4
ENG 311 English Lit. to 1500 4
ENG 312 English Lit. 1500–1660 4
ENG 313 English Lit. 1660–1800 4
ENG 321 American Lit. to 1865 4
ENG 351 Hist. of the English Language 4
or ENG 352 Dev. of American English 4
or ENG 353 Struct. of American English 4
or ENG 359 Literary Theory 4

Three of the following:
ENG 361 Creative Writing: Fiction 4
ENG 362 Creative Writing: Poetry 4
ENG 363 Creative Writing: Nonfiction 4
ENG 393 Creative Writing Workshop: Fiction 4
ENG 394 Creative Writing Workshop: Poetry 4
ENG 395 Creative Writing Workshop: Nonfiction 4
ENG 486 Advanced Workshop in Poetry 4
ENG 487 Advanced Workshop in Fiction 4
ENG 488 Advanced Workshop in Nonfiction 4

One of the following:
ENG 481 Form and Theory of Literary Genres: Poetry 4
ENG 482 Form and Theory of Literary Genres: Fiction 4
ENG 483 Form and Theory of Lit. Genres: Nonfiction 4

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

English—Prelaw Major (B.A.)
Special curriculum; major code BA5234
If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree in English (BA5231, BA5232) and take relevant electives in other schools and departments. Consult your faculty advisor. Law schools prescribe no special curriculum. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated advisors assigned to help students interested in law careers. For further information, see “Law” in this section of the catalog.

English—Pretheology Major (B.A.)
Special curriculum; major code BA5233
If you plan to enter a theological seminary or do graduate study in religion, it is recommended that you take a broad program, including the following (with suggested minimum quarter hours): philosophy (12); courses on the texts and history of religions (15); English composition and literature, world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements for the Bachelor of Arts degree and the University General Education Requirements. It is advisable to major in philosophy, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major is also available from the Department of History or Philosophy.

English Minor
Minor code OR5231
The English minor consists of a minimum of 31 hours above 199, including:

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

Three additional courses above 299

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

The following degree programs are offered:
1 Preparation for Environmental Biology (Biological Sciences Emphasis)
2 Preparation for Environmental Biology (Plant Biology Emphasis)
3 Preparation for Environmental Chemistry
4 Preparation for Environmental Geography
5 Preparation for Environmental Geology

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

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

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

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

**Major codes BA2111, BS2111**

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

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

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

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

**Recommended departmental elective:**

PBIO 418: Writing in the Life Sciences 4

**Extradepartmental requirements**

- CHEM 121, 122, 123: Prin. of Chemistry 12
- or 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 263A*: 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.**

**Plant Biology Minor**

**Minor code OR2111**

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

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

**Special curriculum; major code BS2118**

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

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

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

Two additional PBIO courses at 300 level or above.

**Required nondepartmental courses:**

- CHEM 151, 152, 153: Fund. of Chemistry 15
- CHEM 490: General Biochemistry 4
- 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 5
- MATH 163A, B: Intro to Calculus 7
- or MATH 263A, B: Calculus 8
- or MATH 266A, B*: Calculus with Bio App. 8
- or MATH 266A: Calc. or MATH 266B: Calc. or MATH 266B*:

*preferred math option

**Recommended departmental electives:**

- CHEM 490: Quantitative Methods in Plant Biology 5
- CHEM 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 in urban forestry, directing the ecological restoration of strip mines, teaching in various colleges and universities, and collecting medicinal plants in Africa. Several graduates have gone into environmental law.

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

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

- PBIO 114 Foundations of Plant Biology 5
- PBIO 115 Plant Structure and Development 4
- PBIO 209 Plant Ecology 4
- PBIO 210 Plant Physiology 4
- PBIO 211 Diversity of Life 5
- PBIO 331 Plant Genetics 5
- PBIO 309 Plant Systemsatics and Ohio Flora 6
- PBIO 415 Quantitative Methods in Plant Biology 5
- PBIO 426 Plant Physiological Ecology 5
- or PBIO 435 Plant Population Biology 5
- or PBIO 436 Plant Community Ecology 5
- or PBIO 437 Ecosystem Ecology 4
- PBIO 404 Undergraduate Research 2
- or PBIO 406 Undergrad Res./Wrt. Pres. 2
- or PBIO 407 Undergrad Res./Oral Pres. 2
- or PBIO 409 Internship 2

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

**Recommended departmental elective:**

PBIO 418 Writing in the Life Sciences 4

**Required nondepartmental courses**

- CHEM 121, 122, 123 Prin. of Chemistry 12
- or CHEM 151, 152, 153 Fund. of Chemistry 15
- CHEM 301, 302 Organic Chemistry 6
- BIOS 171, 173 Intro to Zoology 6
- or BIOS 173, 321 Intro to Zoology, Gen. Microbiology 6
- or BIOS 435 Entomology 4
- Any BIOS course of 4 credits or more at 300--400 level (see recommended electives below)

- GEOG 201 Environmental Geography 4
- GEOG 268 Computer Appl. in Geog. 4
- GEOG 370 Geog. Inform. Sys. Applications 4
- GEOG 401 Intro to Geology 5
- MATH 163A Intro to Calculus 4
- or MATH 263A Calculus 4
- or MATH 266A* Calculus with Bio App 4
- PHYS 201, 202 Intro to Physics 10
- PSY 221 Stat. for Behavioral Sci. 5

**Recommended electives**

- GEOL 101 Intro to Geology 5
- PBIO 407 Undergrad Res./Oral Pres. 2
- or PBIO 409 Internship 2

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

**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/

**Recommended electives**

- PBIO 114 Foundations of Plant Biology 5
- PBIO 115 Plant Structure and Development 4
- PBIO 209 Plant Ecology 4
- PBIO 210 Plant Physiology 4
- PBIO 211 Diversity of Life 5
- PBIO 309 Plant Systemsatics & Ohio Flora 6
- PBIO 415 Quantitative Methods in Plant Biology 5
- PBIO 426 Plant Physiological Ecology 5
- or PBIO 435 Plant Population Biology 5
- or PBIO 436 Plant Community Ecology 5
- or PBIO 437 Ecosystem Ecology 4
- PBIO 404 Undergraduate Research 2
- or PBIO 406 Undergrad Res./Wrt. Pres. 2
- or PBIO 407 Undergrad Res./Oral Pres. 2
- or PBIO 409 Internship 2

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

- GEOG 201 Environmental Geography 4
- GEOG 268 Computer Appl. in Geog. 4
- GEOG 370 Geog. Inform. Sys. Applications 4
- GEOG 401 Intro to Geology 5
- MATH 163A Intro to Calculus 4
- or MATH 263A Calculus 4
- or MATH 266A* Calculus with Bio App 4
- PHYS 201, 202 Intro to Physics 10
- PSY 221 Stat. for Behavioral Sci. 5

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

- GEOL 101 Intro to Geology 5
- PBIO 407 Undergrad Res./Oral Pres. 2
- or PBIO 409 Internship 2

*Strongly recommended. The vegetation analysis skills taught in PBIO 436 are particularly valuable in the environmental job market.
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 GEOL 215</td>
<td>Environ. Geology</td>
<td>4</td>
</tr>
<tr>
<td>or 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>GEO 250</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>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>
</tr>
<tr>
<td>PSY 221</td>
<td>Stat. for Behavioral Sci.</td>
<td>5</td>
</tr>
<tr>
<td>ISE 304</td>
<td>Applied Engineering Statistics</td>
<td>3</td>
</tr>
</tbody>
</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>
</tr>
</thead>
<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>
<td>3</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 481</td>
<td>Animal Conservation Biol.</td>
<td>4</td>
</tr>
<tr>
<td>CE 353</td>
<td>Basics of Environmental Engineering</td>
<td>4</td>
</tr>
<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>
</tr>
<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>
<td>4</td>
</tr>
<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>GEOL 231</td>
<td>Water and Pollution</td>
<td>4</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 480</td>
<td>Hydrogeology</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>
</tr>
<tr>
<td>PBIO 437</td>
<td>Ecosystem Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

Social Sciences (8-9 hours)

Two courses in different departments from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</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 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>
</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 a minimum of 47 hours in geography from the following courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 101</td>
<td>Physical Geography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 121</td>
<td>Human Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 268</td>
<td>Computer Applications</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 271</td>
<td>Intro to Stat. in Geog.</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 481</td>
<td>Senior Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

55 hours of approved geography courses, including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 101</td>
<td>Physical Geography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 121</td>
<td>Human Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>Globalization and the Developing World</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 132</td>
<td>Industrial World</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 232</td>
<td>Geography of Ohio</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 234</td>
<td>Geog. of U.S. and Canada</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Geog. of Western Europe</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 331</td>
<td>Geography of Africa</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 333</td>
<td>Appalachia: Land and People</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 334</td>
<td>Historical Geography of the U.S.</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 335</td>
<td>Geography of Latin America</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 338</td>
<td>Geography of Southeast Asia</td>
<td>4</td>
</tr>
</tbody>
</table>

One regional course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 360</td>
<td>Cartography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 361</td>
<td>Statistical Cartography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 365</td>
<td>Air Photo Interpretation</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 370</td>
<td>GIS Applications</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 466</td>
<td>Principles of Remote Sensing</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 467</td>
<td>Remote Sensing Applications</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 468</td>
<td>Automated Cartography</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>

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—Cartography Major (B.S.)
Special curriculum; major code BS4236
Cartography, the art and science of mapmaking, is an integral part of geography. The spatial perceptions of geographers are translated into map form via various cartographic techniques.

This program addresses both the academic and technical aspects of cartography, leading to application and practical experience—the latter through a practicum and employment in the Ohio University Cartographic Center, an extension of the Cartography Program and the Department of Geography. The program stresses a strong background in geography, emphasizes cartography-related courses, and complements these courses with specific courses from related areas.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 260</td>
<td>Maps</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum of 6 technique courses from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 360</td>
<td>Cartography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 361</td>
<td>Statistical Cartography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 365</td>
<td>Air Photo Interpretation</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 370</td>
<td>GIS Applications</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 466</td>
<td>Principles of Remote Sensing</td>
<td>5</td>
</tr>
</tbody>
</table>
GEOG 467  Remote Sensing Applications  5
GEOG 468  Automated Cartography  5
GEOG 478  Principles of GIS  5
GEOG 479  Geographic Info Analysis  5

**Computer Science**

Two approved CS or MIS courses above the 199 level  8-10

**Mathematics**

MATH 163A, B  Intro to Calculus  7
or  MATH 263A, B  Calculus  8

**Earth Sciences**

GEOL 101  Intro to Geology  5
GEOG 315  Landforms and Landscapes  5
or  GEOL 330  Prin. of Geomorphology  5

**Other requirements**

CE 210  Plane Surveying  4

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

**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  5
GEOG 361  Statistical Cartography  5
GEOG 365  Air Photo Interpretation  4
GEOG 370  GIS Applications  4
GEOG 418  Biogeography Research  4
GEOG 466  Principles of Remote Sensing  5
GEOG 467  Remote Sensing Applications  5
GEOG 468  Automated Cartography  5
GEOG 475  Geocomputing  4
GEOG 476  Field Methods  4
GEOG 478  Principles of GIS  5
GEOG 479  Geographic Info Analysis  5

**Hours over 300 must include four courses from this list:**

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

**General requirement**

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

**Recommended electives**

PHYS 201, 202, 203  Intro to Physics  15

Choose at least three courses (portions of the Arts and Sciences natural sciences requirement) from either the Biological Sciences or Earth Sciences group below:

**Biological Sciences**

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

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

**Earth Sciences**

GEOL 101  Intro to Geology  5
GEOL 211  Intro Oceanography  4
GEOL 215  Environmental Geology  4
GEOL 231  Water and Pollution  4
GEOL 312  Earth Materials and Resources  5
GEOL 330  Prin. of Geomorphology  5
GEOL 427  Water Geochemistry  4
GEOL 432  Origin and Classification of Soils  4
GEOL 439  Fluvial Geomorphology  4
GEOL 471  Advanced Env. Geology  4
GEOL 480  Prin. of Hydrogeology  4
GEOL 481  Groundwater Flow Modeling  4
GEOL 483  Field Hydrology  6

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

Required course:

ECON 103  Prin. of Microeconomics  4
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:

**General Education Requirements.**

**Other Requirements**

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

**Geography—Environmental Prelaw (B.S.)**

**Special curriculum; major code BS4237**

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

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

**General Education Requirements.**

**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:

**Map Analysis Sequence**

**Statistical Analysis Sequence**

**Digital Analysis Sequence**
GEOG 479  Geographic Info Analysis  5

Application Support Sequence
Two planning/management courses from the following:
GEOG 350  Land Use Planning  4
GEOG 358  Environ. Risk Assessment  4
GEOG 440  Env. Impact Analysis  4
GEOG 447  Natural Resource Conserv.  4
GEOG 475  Geocomputing  4
GEOG 476  Field Methods  4
or
Two systematic specialization courses from the following:
GEOG 303  Climatology  5
GEOG 315  Landforms and Landscapes  5
GEOG 316  Biogeography  4
GEOG 321  Population Geography  4
GEOG 326  Urban Geography  4
GEOG 417  Landscape Ecology  4

Recommended Electives
CS 210  Programming in C  5
CS 220  Intro to Computing  5
CS 230  Computer Programming I  5
MATH 113  Algebra  5
MATH 163A, B  Intro to Calculus  7
MATH 211  Elementary Linear Algebra  4

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

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

Prerequisite Courses (2 courses)
Statistics—Choose one course from the following (3–5 hours)
ECON 381  Introduction to Economic Statistics and Econometrics  4
ISE 304  Applied Engineering Statistics  3
GEOG 271  Intro to Statistics in Geography  4
GEOL 205  Statistical Methods in Geology  4
MATH 250  Intro to Probability and Statistics  4
PSY 221  Statistics for Behavioral Sciences  5

Computer Applications—Choose one course from the following (3–4 hours)
BMT 200  Introduction to Business Computing  4
CS 120  Computer Literacy  4
CTECH 125  Introduction to Computers  4
GEOG 268  Computer Applications in Geography  4
IT 103  Computer App. in Industrial Technology  4
MIS 201  Introduction to Microcomputers  3

Core Courses (3 courses)
GEOG 360  Cartography  5
GEOG 370  GIS Applications  4
GEOG 478  Principles of GIS  5

Support Courses (2 courses)
Programming—Choose one course from the following (5 hours):
CS 210  Programming in C  5
CS 230  Computer Programming I  5

Database Management—(4 hours)
MIS 235  Advanced Microcomputer Database Applications  4

Capstone Course (1 course)
GEOG 485A  GIS Certificate Internship  5

Geography—Meteorology Major (B.S.)
Special curriculum; major code BS4238
The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics can prepare you for graduate training in meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see departmental listings in this section). If you choose the geography emphasis, contact the Department of Geography for advising. The major in geography requires a minimum of 45 hours.

Freshman
CHEM 151  Fund. of Chemistry  5
CHEM 152  Fund. of Chemistry  5
GEOG 101  Physical Geography  5
GEOG 121  Human Geography  4

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

Junior
GEOG 302  Meteorology  5
GEOG 303  Climatology  5
GEOG 304  Observ. in Meteorology  2
GEOG 305  Pract. in Meteorological Forecasting  2
PHYS 311, 312  Mechanics  8
PHYS 411  Thermodynamics  4

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

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

Geography emphasis requirements
GEOG 121  Human Geography  4
GEOG 315  Landforms and Landscape  5
or GEOG 316  Biogeography  or 4
or GEOG 411  Adv. Physical Geography
or GEOG 296U  Maps  4
or GEOG 360  Cartography  or 5
or GEOG 385  Air Photo Interpretation

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 for a minimum of 47 hours including these additional specifications:

Three of the following:

- GEOG 326 Urban Geography 4
- GEOG 350 Land Use Planning 4
- GEOG 353 Environmental Planning 4
- GEOG 357 Environmental Law 4
- GEOG 455 Evolution of Planning 4
- GEOG 456 The City & the Environment 4

Choice of two technique courses from the following:

- GEOG 360 Cartography 5
- GEOG 361 Statistical Geography 5
- GEOG 365 Air Photo Interpretation 4
- GEOG 370 GIS Applications 4
- GEOG 466 Remote Sensing 5
- GEOG 468 Automated Cartography 5
- GEOG 478 Principles of GIS 5

Three of the following:

- GEOL 101 Intro to Geology 5
- GEOL 231 Water and Pollution 4
- GEOL 315 or GEO 330 Landforms and 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.

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

SOC 424 Urban Sociology 4

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

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

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

Outside the College of Arts and Sciences

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

- GEOL 101 Intro to Geology 5
- GEOL 205 Statistical Methods 4
- GEOL 255 Historical Geology 4
- GEOL 315 Mineralogy 5
- GEOL 320 Petrology 4
- GEOL 330 Prin. 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 Camp I 4
- GEOL 475B Field Camp II 5
At least three additional 400 level courses. If conducting a senior thesis: at least two additional 400 level courses.

**Extradepartmental requirements**

CHEM 151, 152, 153 Fund. of Chemistry 15
or CHEM 121, 122, 123 or 12
MATH 263A, B Calculus 8
PHYS 201, 202* Intro to Physics 10
or 251, 252, 253 General Physics or 15
or 251, 202 or 10

*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:

GEOL 101 Intro to Geology 5
GEOL 205 Statistical Methods 4
GEOL 255 Historical Geology 4
GEOL 315 Mineralogy 5
GEOL 320 Petrology 4
GEOL 330 Prin. of Geomorphology 5
GEOL 340 Prin. of Invertebrate Paleontology 4
GEOL 350 Stratigraphy- Sedimentology 4
GEOL 360 Structural Geology 5
GEOL 466 Geodynamics 4

at least two additional courses at the 400 level

**Extradepartmental requirements**

CHEM 121, 122 Prin. of Chemistry 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:**

GEOL 101 Intro. to Geology 5
GEOL 205 Statistical Methods 4
GEOL 255 Historical Geology 4
GEOL 315 Mineralogy 5
GEOL 320 Petrology 4
GEOL 330 Prin. of Geomorphology 5
GEOL 350 Stratigraphy-Sedimentology 4
GEOL 360 Structural Geology 5
GEOL 427 Water Geochemistry 4

GEOL 480 Principles of Hydrogeology 4
GEOL 475A Field Camp I 4
GEOL 475B Field Camp II 4

**Natural science courses**

BIOS 220 Conserv. and Biodiversity 4
CHEM 151,152,153 Fund. of Chemistry 15
or CHEM 121, 122, 123 or 12
CHEM 301,302 Organic Chemistry 6
MATH 263A, 263B Calculus 8
BIOS 221, 222 Environ. Microbiology 6
PHYS 201, 202 Intro to Physics 10
or PHYS 251, 252, 253 General Physics or 15

**Social Science courses**

BUSL 370 Environmental Law 4
ECON 313 Econ. of the Environment 4
ECON 314 Nat. Resources Economics 4
GEOG 478 Geog. Info. Systems 5

A minimum of two courses from the following list:

**Natural Sciences**

BIOS 376 Field Ecology 4
CHEM 325 Instr. Methods of Analysis 4
CHEM 431 Chemical Sep. Methods 3
CHEM 432 Chem. Instrumentation and Electrochemistry 3
CHEM 433 Spectrochemical Analysis 3
GEOG 302 Meteorology 5
GEOG 303 Climatology 5
GEOG 432 Orig. and Class. of Soils 4
GEOG 434 Intro to Remote Sensing 4
GEOG 453 Physical Limnology 4
GEOG 476 Subsurface Methods 4
GEOG 481 Groundwater Flow Modeling 4
GEOG 485 Intro to Appl. Geophysics 4
PBIO 410 Plants and Soils 4
PBIO 425 Plant Ecology 5

**Social Science**

ECON 313 Econ. of the Environment 4
ECON 314 Nat. Resources 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 Geocomputing 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.
The major requirement for the B.A. degree consists of

**Global Learning Community**

The Global Learning Community (GLC) is an innovative program that prepares students for leadership opportunities in a rapidly changing world. Open to all majors, the GLC brings together the resources of the colleges of Communication, Arts and Sciences, and Business in an interdisciplinary 30-quarter-hour residential program on global issues, with a strong emphasis on real-world projects and problem-solving skills.

GLC courses are not traditional classes with lectures, tests, and papers. Instead, students work in project teams on real-world problems and issues. Each GLC student completes at least two international and cross-cultural projects.

For additional information, see the complete program description in the "University-Wide Academic Opportunities" section or visit the GLC Web site: 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>Code</th>
<th>Course Description</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:

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

32 hours at the 300–400 level, including

- 301J Historical Research and Writing 4

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

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

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

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

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

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

**History Minor**

Minor code OR4211

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

**History Pre–Foreign Service Major (B.A.)**

Special curriculum; major code BA4212

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

**History—Prelaw (B.A.)**

Special curriculum; major code BA4214

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

**History—Pretheology Major (B.A.)**

Special curriculum; major code BA4213

If you plan to enter a theological seminary or to do graduate study in religion, it is recommended that you take a broad program of undergraduate courses, including the following (with minimum credit suggested in each area): philosophy (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 philosophy, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major also is available from the Departments of English and Philosophy.

**International Studies**

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

The Bachelor of Arts in International Studies (BAIS) seeks
Throughout this program of study, students are also expected to develop international competence, which involves understanding other peoples and societies well enough to be able to work effectively with them on a broad range of common problems. It calls for the education and training of persons who are proficient in a language other than their own and who are able 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 - a cross-cultural perspective on global issues of human interaction with the natural environment; (c) regional specialization - 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
Admission to the program is divided into two stages: pre-major and major. Students are admitted as “pre-majors” (major code ND4404) to work on the following 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 complete the 111, 112, and 113 language classes* in their chosen foreign language with a B average for the three classes.

Students who declare the BAIS pre-major should begin taking the prerequisite courses immediately. ANTH 101 and POLS 250 are generally offered every quarter. INST 103, 113, and 118 are offered once per year; INST 121 is offered twice per year.

3. Submission to the BAIS Coordinator of a Study Abroad Plan, at least 6 months prior to studying abroad. In the Study Abroad Plan students outline their personal and academic goals for studying abroad and identify one primary and two alternate study abroad programs that satisfy these goals. Study Abroad Plans are reviewed for approval by the BAIS Faculty Advisory Board once per quarter. Forms and guidelines are available from the BAIS Coordinator.

Any student who wishes to declare the BAIS major, but who has not met the grade requirements for the prerequisite classes, should talk to the BAIS coordinator first to determine if the major is appropriate for him/her. If it is determined that the major is appropriate for the student, s/he may retake any/all of the prerequisite classes.

* Students who have completed the 100 or 200 level language series in high school, or transfer students with “cr” for those courses, will be required to take a placement test to determine the appropriate level for continuing language study at Ohio University. If there is no placement test, students should meet with the instructor at the desired level to determine appropriate placement. Students are required to meet the grade standards (described above) for the first three courses in that language taken at Ohio University.

Requirements for the Undergraduate Major in International Studies
The Bachelor of Arts in International Studies is an inter-disciplinary major within the College of Arts and Sciences, and requires the completion of all Arts and Sciences College requirements. The major consists 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.

The BAIS program provides majors with opportunities to discuss current affairs, attend special lectures and cultural events, and gather information on study abroad, graduate school, and career opportunities.

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. At least one quarter prior to graduation, students must take an oral proficiency examination and attain the level specified for that language. To gain proficiency, students may use any combination of course work at Ohio University, intensive summer language institutes, or study abroad in a country where the language is spoken.

Acceptable languages are Swahili or French for Africa; Chinese, Indonesian, or Japanese for Asia; French, German, Italian*, Russian, or Spanish for Europe; and Spanish for Latin America. You may petition the BAIS committee to receive approval to use languages other than those listed above to satisfy the language requirement.

* Approval of Italian as a second language will require significant study beyond that which is currently offered at Ohio University.

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 a country in which their second language is spoken. Study abroad is designed in consultation with the academic advisor and planned as an integral part of the program. 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. Programs which offer the maximum opportunity to function independently and solve problems in the host culture are preferred.

For additional information, refer to “Office of Education Abroad” in the “University-Wide Academic Opportunities” section.

General Arts and Sciences Requirements
As a major in the College of Arts and Sciences, you must satisfy all College distribution requirements including 18 hours of humanities, 18 hours of social sciences, and 18 hours of natural science and mathematics. Courses which satisfy major credit may not be utilized to satisfy these distribution requirements, however they will count towards Tier II requirements.

International Studies (33 hrs)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Cultural Anthropology</td>
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</table>
POLS 250  International Relations 4

Comparative/International Studies (12 hrs)
(Select one thematic 3-course sequence.)
a. Comparative Institutions and Ideologies
   POLS 230  Comparative Politics 4
   POLS 340  Politics of Developing Areas 4
   POLS 490Q  Nationalism 4
b. Comparative Cultures (choose any three)
   ANTH 345  Gender in Cross Cultural Perspectives 4
   ANTH 350  Economic Anthropology 4
   ANTH 357  Anthropology of Religion 4
   ANTH 376  Culture Contact and Change 4
c. Business
   BA 385  Multinational Business 4
   BUSL 385  International Business Law 4
   MGT 484  International Comparative Management 4
d. Political Economy (choose any three)
   ANTH 350  Economic Anthropology 4
   ECON 350  Economic Development 4
   GEOG 329  World Economic Geography 4
   POLS 340  Politics of Developing Countries 4
   POLS 490K  International Political Economy 4
e. International Relations (choose any three)
   GEOG 325  Political Geography 4
   HIST 374B  History of International Diplomacy, 1914-1939 4
   HIST 374C  History of International Diplomacy, 1939-present 4
   POLS 455  International Law 4
   POLS 456  International Organizations 4
   POLS 490C  Causes of War 4

Environmental Literacy (12 hrs)
(Select three courses from one group)
a. Ecology - Conservation Biology (choose any three)
   BIOS 220  Conservation and Biodiversity 4
   BIOS 275  Ecology in the 21st Century 4
   GEOG 417  Landscape Ecology 4
   PBIO 209  Plant Ecology 4
   PBIO 322  Tropical Plant Ecology 4
b. Earth - Biogeography
   BIOS/GEOG 316  Biogeography 4
   PBIO 209  Plant Ecology 4
   PBIO 322  Tropical Plant Ecology 4
c. Water, Land and the Oceans (choose any three)
   GEOG 201  Environmental Geography 4
   GEOG 211  Introduction to Oceanography 4
   GEOG 215  Environmental Geology 4
   GEOG 231  Water and Pollution 4
   GEOG 303  Marine and Tropical Field Studies 1-6
   GEOG 330  Principles of Geomorphology 5
   GEOG 315  Landforms and Landscapes 5
   GEOG 417  Landscape Ecology 4
d. Environment and Society (choose any three)
   ANTH 378  Human Ecology 4
   GEOG 201  Environmental Geography 4
   GEOG 241  Global Issues in Environmental Geography 4
   GEOG 321  Population Geography 4
   GEOG 344  Agricultural Ecosystems 4
   GEOG 353  Environmental Planning 4
   ECON 313  Economics of the Environment 4
   ECON 314  Natural Resource Economics 4
   ECON 335  Economics of Energy 4

Area Studies (28 hrs)
Options: Africa, Asia, Europe, Latin America.
* Special Studies, experimental courses, and seminars with an international character not listed may be taken with the approval of the student's advisor. Courses must be taken in a minimum of three disciplines, NOT including INST.

Africa (B.A.)
Special curriculum; major code BA4405
Select 28 hours in a minimum of three disciplines, excluding INST courses.
   INST 113*  Modern Africa (2C) 4
   AH 332  West African Art 4
   AH 333  Central African Art 4
   ANTH 351  Political Anthropology 4
   ANTH 357  Anthropology of Religion 4
   ANTH 381  Cultures of Sub-Saharan Africa 4
   CLWR 311  Islam (2C) 4
   ECON 455  African Econ. Dev. 4
   EDIC 205  Learning from Non-Western Cultures 4
   EDIC 425A  Education and Development in Africa 4
   FR 454  Francophone Lit. of Sub-Saharan Africa, Maghreb, and the Carribbean 4
   GEOG 331  Geography of Africa I 4
   HIST 335 A/B  Survey of Middle East History (Includes North Africa) 4
   HIST 336 A/B  North Africa 4
   HIST 338  History of West Africa 4
   HIST 338A  History of East Africa 4
   HIST 341A  Early Africa 4
   HIST 341B  Africa During the Slave Trade 4
   HIST 341C  Modern Africa, 1890-Present 4
   HIST 342A/B  South Africa 4
   HIST 343  Revolutions in Southern Africa 4
   HIST 392D  The British Empire (taken in conjunction with at least two African history classes) 4
   PHIL 478  African Philosophy 5
   POLS 441  Govt. and Politics of Africa 5
   POLS 463  The U.S. and Africa 5
   POLS 464, 464W  Africa and the OAU 5
   POLS 490B  Gender and Political Development in Africa 3-5

Asia (B.A.)
Special curriculum; major code BA4406
Select 28 hours in a minimum of three disciplines, excluding INST courses.
   INST 103*  Modern Asia (2C) 4
   AH 331  History of Chinese Art 4
   AH 341  History of Chinese Art 4
   AH 342  Art of 20th Century China 4
   AH 343  History of Japanese Art 4
   ANTH 385  Cultures of SE Asia 4
   ANTH 386  Problems in Southeast Asian Anthropology 4
   CLWR 311  Islam (2C) 4
   CLWR 321  Hinduism (2C) 4
   CLWR 331  Buddhism (2C) 4
   CLWR 341  Taoism 5
   ECON 473  Economics of SE Asia 4
   GEOG 338  Southeast Asia 4
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<td>The Rise of Modern Asia</td>
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<td>HIST 344A</td>
<td>History of Malay World</td>
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<tr>
<td>HIST 344B</td>
<td>History of Burma and Thailand</td>
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<td>HIST 344C</td>
<td>History of Vietnam</td>
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<td>HIST 345A/B/C</td>
<td>Southeast Asian History</td>
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<td>HIST 346D</td>
<td>Imperial China</td>
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<tr>
<td>HIST 346E</td>
<td>Modern China since 1911</td>
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<td>HIST 348A</td>
<td>Traditional Japan</td>
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<td>HIST 348B</td>
<td>Modern Japan</td>
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<td>HIST 445</td>
<td>Studies in the History of Southeast Asia</td>
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<td>HIST 449</td>
<td>Studies in the History of East Asian Modern Times</td>
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<td>Modern Literature of SEA</td>
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<td>ILL 369A</td>
<td>Women in Chinese Literature</td>
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<td>INST 350</td>
<td>Focus on Malaysia</td>
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<td>INST 490</td>
<td>Tun Razak Seminar</td>
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<td>Intro to Japanese Culture</td>
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<td>JPC 450</td>
<td>Japanese: A Sociocultural Interpretation</td>
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<td>Japanese Language and Culture</td>
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<td>JPN 348/9</td>
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<td>East Asia and World Politics</td>
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<td>Japanese Foreign Policy</td>
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<td>INST 118*</td>
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<td>AH 327</td>
<td>Art of the 19th Century</td>
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<td>FR 434</td>
<td>French Through Film</td>
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<tr>
<td>FR 435</td>
<td>Proseminar (depending on content)</td>
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<td>GEOG 330</td>
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<td>GER 345</td>
<td>Business German</td>
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<td>GER 348/9</td>
<td>German Civ. and Culture</td>
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<td>GER 355/6</td>
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<td>GER 429/30/31</td>
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<td>GER 441</td>
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<td>HIST 265A</td>
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<td>HIST 333</td>
<td>Oil and World Power</td>
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<td>HIST 360B</td>
<td>Women in Modern Euro Hist. 1800-Present</td>
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<td>HIST 360C</td>
<td>Women Warriors: Women &amp; War in Europe</td>
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<td>Europe 1814–1914</td>
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<td>Europe Between the Wars</td>
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<td>Contemporary Europe</td>
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<td>France</td>
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<td>HIST 374A</td>
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<td>HIST 382B</td>
<td>Russia: Road to Revolution</td>
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<td>HIST 382C</td>
<td>Soviet Union</td>
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<td>HIST 382D</td>
<td>The USSR in World War II</td>
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<td>The British Empire</td>
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<td>ILL 334</td>
<td>Portuguese and Brazilian Lit in English (when topic is literature from Portugal)</td>
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<td>ILL 335</td>
<td>Italian Literature in English (when topic is literature from Spain)</td>
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<td>POLS 331</td>
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<td>POLS 333</td>
<td>Politics in Russia and the former Soviet Union</td>
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<td>POLS 334</td>
<td>Policy Making in Russia</td>
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<td>POLS 335</td>
<td>Russian Foreign Policy</td>
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<td>POLS 336</td>
<td>Govt. and Pol. of Germany</td>
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<td>Politics in France</td>
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<td>RUS 429</td>
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<td>RUS 435</td>
<td>Study Abroad - Moscow</td>
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<td>RUS 441</td>
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<td>SPAN 345</td>
<td>Business Spanish</td>
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<td>SPAN 348</td>
<td>Civ and Culture of Spain</td>
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<td>SPAN 349</td>
<td>Dramatizations of the Hispanic World (when topic is Spain)**</td>
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<td>Fictions of the Hispanic World (when topic is Spain)**</td>
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<td>Poetic Images of the Hispanic World (when topic is Spain)**</td>
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<td>SPAN 458</td>
<td>Don Quijote de la Mancha</td>
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</table>

*Required course

** Required course

*Check with department prior to registering
**International Studies Certificate Program**

The Center 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. Additional requirements for the European or Latin American Certificate are (1) five courses relating to Europe or Latin America in a minimum of three disciplines; (2) study of a relevant language through the intermediate level; and (3) an overall g.p.a. of 2.5 in courses taken toward the certificate. Additional requirements for the Asian or African Certificate are (1) eight courses in either of two options: Option A—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; B—The eight courses must relate to Africa or Asia with no language requirement; (2) an overall g.p.a. of 2.5 in courses taken toward the certificate.

Register for any of these certificates with the Bachelor of Arts in International Studies Coordinator in the Center for International Studies, Yamada House.

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**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:**

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<th>Course</th>
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<td>ITAL 342</td>
<td>4</td>
</tr>
<tr>
<td>ILML 335</td>
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**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:**

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

**Group 2:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAR 212</td>
<td>4</td>
<td>Roman Archaeology</td>
</tr>
<tr>
<td>CLAR 362</td>
<td>4</td>
<td>The Archaeology of Roman Cities</td>
</tr>
<tr>
<td>CLAR 352X</td>
<td>4</td>
<td>Ancient Rome: Development of the City</td>
</tr>
<tr>
<td>CLAS 254</td>
<td>4</td>
<td>Rome Under the Caesars</td>
</tr>
<tr>
<td>CLAS 401</td>
<td>4</td>
<td>Life of the Romans</td>
</tr>
<tr>
<td>or CLAS 401X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 329C</td>
<td>4</td>
<td>Ancient Rome</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>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>404A</td>
<td>4</td>
<td>Reconstructing Roman Slavery</td>
</tr>
<tr>
<td>410B</td>
<td>4</td>
<td>The Age of Michelangelo</td>
</tr>
<tr>
<td>496M</td>
<td>4</td>
<td>The Renaissance in Machiavelli</td>
</tr>
</tbody>
</table>
Latin
See Classics and World Religions.

Latin American Studies
See International Studies.

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

The departments of Economics, English, History, Philosophy, Political Science, and Sociology and Anthropology designate prelaw faculty advisors. These advisors have information about the Law School Admission Test and can supply applications. See the respective department listings in this section for specific information about major requirements. A further opportunity is the environmental prelaw major offered by the Department of Geography. See Geography—Environments 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 Public Law Track within the Department of Political Science offers students a comprehensive preparation in the politics of law and the courts. See Political Science—Public Law.

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

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

Linguistics
Linguistics Major (B.A.)
Major Code BA5290
The requirements for a major in linguistics consist of 45 credit hours beyond 270; 30 hours must be in core linguistics courses, and 15 hours are to be chosen from other linguistics courses and clustered to form a concentration. Possible concentrations include teaching English as a second or foreign language, the use of computers in language teaching, sociolinguistics, psycholinguistics, and theoretical linguistics. In addition, courses in the social sciences, humanities, education, communications, and computer science are recommended as external electives. Knowledge of a foreign language equivalent to three years of college-level study is required; one language may be studied for all three years, or a different language may be studied in the third year. Transfer of credits from other programs or departments at Ohio University will be accepted upon approval of the department chair. Required core courses are the following:

LING 275 or LING 280
Intro. to Lang. and Culture Language in America 4 4
LING 350 or LING 351
Intro. to Linguistics Fundamentals of Linguistics 5 5
LING 370 or LING 475
Intro. to Psycholinguistics Theories of Lang. Learning 4 4
LING 460
Phonology 5
LING 470
Syntax 4
LING 485
Historical Linguistics 4
LING 495
Directed Research 3

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 ORS290
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.

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

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

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

Mathematics
Mathematics Major (B.S. or B.A.)
Major codes BS3101, BA3101
The requirement for the B.A. or B.S. in mathematics is 50 quarter hours in courses numbered 200 or above, 16 hours
of which must be chosen from courses numbered 306 and above (exclusive of 490 and 491), all taken for grade. For a B.S., you must also complete MATH 314 (or 413A) and MATH 360 (or 460A) as part of your 16 hours chosen from courses numbered above 306.

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

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

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

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

Mathematics Minor
Minor code OR3101

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

Mathematics—Actuarial Sciences Major (B.S. or B.A.)
Special curricula; major codes BS3102, BA3102

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 Macroecon.  8

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

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

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

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

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

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

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

Mathematics—Prep. for Advanced Training Major (B.S. or B.A.)

Special curricula; major codes BS3102, BA3102

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

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

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

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

Junior–Senior
MATH 411  Linear Algebra  4
MATH 413A, B  Prin. of Modern Algebra  8
MATH 480A, B, C  Elem. Point Set Topology  12
MATH 460A, B, C  Advanced Calculus  12

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

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

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

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

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

Departmental requirements
MATH 263A, B, C, D  Calculus  16
MATH 306  Found. of Mathematics I  4
MATH 340  Differential Equations  4  
MATH 360  Intermediate Analysis  4  

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

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

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

Additional Extra departmental coursework

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

Mathematics—Meteorology Major (B.S. or B.A.)

Special curricula; major codes BS3110, BA3110

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

Freshman

CHEM 151  Fund. of Chemistry  5  
CHEM 152  Fund. of Chemistry  5  
GEOG 101  Elements of Physical Geog.  5  
GEOG 201  Environmental Geography  4  
GEOG 211  Oceanography  4  
GEOG 263A, B, C  Calculus (or advanced placement)  12  
GEOG 406  Pract. in Meteorological Forecasting  2  
PHYS 251, 252, 253  General Physics  15  

Sophomore

GEOG 201  Environmental Geography  4  
GEOG 302  Meteorology  5  
GEOG 303  Climatology  5  
GEOG 304  Observations in Meteorology  2  
GEOG 305  Pract. in Meteorological Forecasting  2  
PHYS 311, 312  Mechanics English composition  4  
PHYS 411  Thermodynamics  4  

Junior

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

Senior

PHYS 414  Dynamic Meteorology I  4  
PHYS 415  Dynamic Meteorology II  4  

Mathematics requirements

MATH 410  Matrix Theory  4  
MATH 444  Intro to Numerical Anal.  4  
MATH 445  Adv. Numerical Methods  4  
MATH 446  Numerical Linear Alg.  4  

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

Medicine

See Biological Sciences or Chemistry, Preparation for Medicine.

Microbiology

See Biological Sciences.

Modern Languages

(see also: Foreign Languages and Literatures)

French Major (B.A.)—Major code BA5221

German Major (B.A.)—Major code BA5222

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

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

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

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

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

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

In Spanish the requirement is a minimum of 40 quarter hours beyond 213, which must include 16 quarter hours at the 400 level. Spanish majors must complete 341, and 343; 348; one of 349, 350, 351, or 352; two of 345, 354, 355, or 356; one of (linguistics) 437, 438, 439, or 441; one of (Spanish-American content) 443, 444, 447, or 448; and one of (Spanish content) 425, 427, 429, 432, 450, 453, 454, 455, or 458. 439 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 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 recommended 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. You 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. Russia: spring quarter in Moscow offers intermediate and advanced Russian.
8. 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.

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 BAS241**

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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 101</td>
<td>Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 130</td>
<td>Introduction to Ethics</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 240</td>
<td>Social and Political</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 310</td>
<td>History of Western</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Philosophy: Ancient</td>
<td></td>
</tr>
<tr>
<td>PHIL 312</td>
<td>History of Western</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Philosophy: Modern</td>
<td></td>
</tr>
<tr>
<td>PHIL 320</td>
<td>Symbolic Logic I</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 440</td>
<td>Contemporary Social</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>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 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 ORS241**

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 BAS244**

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>Hours</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</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 310</td>
<td>History of Western</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Philosophy: Ancient</td>
<td></td>
</tr>
<tr>
<td>PHIL 312</td>
<td>History of Western</td>
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<tr>
<td>PHIL 320</td>
<td>Symbolic Logic I</td>
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</tr>
<tr>
<td>PHIL 440</td>
<td>Contemporary Social</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 BAS242**

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 (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
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 an accredited professional school of physical therapy, you must first complete the baccalaureate-level preprofessional preparatory coursework and then apply on a competitive basis to a professional school of physical therapy. If you are accepted, the professional program extends for an additional two to three years, culminating in a degree in physical therapy. The optional plans of study available will prepare you to be highly qualified for admission to most schools of physical therapy. However, some professional programs require special prerequisites—either courses or practical experience as a volunteer—before you apply for admission. It is your responsibility to check the admission requirements for programs you wish to attend and, in consultation with your academic advisor, to fulfill any special prerequisites.

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

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

For additional information, see Biological Sciences or Psychology Pre-Physical Therapy majors in this section, and "Physical Therapy" in the College of Health and Human Services section. Students should consult the Web page (http://www.ohio.edu/phystherapy/) for the most up-to-date information.

Physics and Astronomy

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

Students in the Honors Tutorial College may major in physics, astrophysics, or engineering physics. Curricula for these programs are available from the Honors Tutorial College. Contact the chair of the Department of Physics and Astronomy if you are interested in pursuing any of the programs described below.

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

Major codes BS3331, BA3331

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

54 quarter hours of physics, including

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 210</td>
<td>Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
<td>General Physics</td>
<td>15</td>
</tr>
<tr>
<td>PHYS 254</td>
<td>Contemporary Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 272, 273</td>
<td>Electronics Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 311, 312</td>
<td>Mechanics</td>
<td>8</td>
</tr>
<tr>
<td>PHYS 371, 372, 373</td>
<td>Intermediate Labs</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 411</td>
<td>Thermodynamics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 427, 428</td>
<td>Electricity and Magnetism</td>
<td>8</td>
</tr>
<tr>
<td>PHYS 451</td>
<td>Quantum Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>

The following mathematics courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 263A, B, C, D</td>
<td>Calculus</td>
<td>16</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 Anal. and Partial Differential Equations</td>
<td>4</td>
</tr>
</tbody>
</table>

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>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 210</td>
<td>Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
<td>General Physics</td>
<td>15</td>
</tr>
<tr>
<td>PHYS 254</td>
<td>Contemporary Physics</td>
<td>4</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 applied sciences. It provides the opportunity for a broad basic education in areas fundamental to present technology and is aimed at preparing you for many physics career opportunities in industry and government laboratories.  
The sequence of courses will vary depending on your interests. Basic requirements in natural sciences, physics, and mathematics will be the same as those of the regular B.S. in physics but may be satisfied by engineering or other applied science courses. The elected sequence could be toward a specific area of interest within an engineering department, e.g. Civil, Mechanical, Electrical, etc. or over a broad area of interest e.g. materials science, which crosses colleges.  
The advantage of preparing for applied science through the fundamental physics program is the acquisition of the abilities for continued development of the technology from fundamental physics principles.  

Physics 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 advisor.  

Senior  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Time</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>

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.***  
If you are in the Honors Tutorial Program, special combinations of some of the above courses are available. Consult with the pre-astronomy advisor.  

**Strongly recommended.  
**A total of at least six hours in combined coursework from ASTR 310, 410, or 450 is required.  
***Beneficial PHYS electives include 303 Computer Simulation Methods, 423 Optics, and 453 Nuclear and Particle Physics.  

Physics—Meteorology Major (B.S.)  
Special curriculum; major code BS3338  
The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics is designed to prepare you for graduate training in the fields of meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see department listings in this section). If you choose the geography or mathematics emphases, contact the department of Geography or Mathematics for advising.  

Freshman  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Time</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>GEOF 101</td>
<td>Elements of Physical Geog.</td>
<td>5</td>
</tr>
<tr>
<td>MATH 263A, 263B, 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>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 201</td>
<td>Environmental Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 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 441</td>
<td>Vector Analysis</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 251, 252, 253</td>
<td>Fourier Series and Partial Diff. Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 272, 273</td>
<td>General Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Junior  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOF 302</td>
<td>Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOF 303</td>
<td>Climatology</td>
<td>5</td>
</tr>
<tr>
<td>GEOF 304</td>
<td>Observations in Meteorology</td>
<td>2</td>
</tr>
<tr>
<td>GEOF 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>Time</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>GEOF 406</td>
<td>Intro to Synoptic Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>GEOF 407</td>
<td>Adv. Synoptic Meteorology</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 411</td>
<td>Thermodynamics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 414, 415</td>
<td>Dynamic Meteorology</td>
<td>8</td>
</tr>
</tbody>
</table>

Physics emphasis requirements  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 272, 273</td>
<td>Electronic Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 254</td>
<td>Contemporary Physics</td>
<td>3</td>
</tr>
</tbody>
</table>
Political Communication Certificate Program
The College of Communication and the College of Arts and Sciences jointly sponsor the undergraduate Political Communication Certificate Program for students in any major program who want to gain knowledge and understanding about the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their attempts to shape political decisions. Completion of this program is officially recognized on your transcript when you graduate, and a certificate is awarded. See the program details in the College of Communication section.

Political Science
Political Science Major (B.A.)

Major code BA4201
The major requirement is a minimum of 52 hours including
POLS 101 Amer. Natl. Government 4
POLS 150 Current World Problems 4
POLS 270 Political Theory 4
Two additional 200-level courses

At least four 300- and 400-level courses in one of the following tracks:
American politics
World politics
Theory and Identity
Public law
POLS 301, 374, 401, 402, 404, 409, 413, 420, 421, 455, 477, 488
General Politics
One 300- or 400-level course from each of four different tracks
All majors are encouraged to take additional courses designed to develop skills, including POLS 305J, 390, 480, 481, 482, 483, 484, and 495.

Political Science Minor

Minor code OR4201
The minor in political science requires a minimum of 28 hours, including POLS 101, 150, 270, and at least 16 hours at the 300–400 level.

Political Science Pre–Foreign Service Major (B.A.)
Special curriculum; major code BA4202
To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

Political Science—Prelaw (B.A.)
Special curriculum; major code BA4203
The prelaw major in political science gives students access to advice, activities, and courses designed to prepare them for law school. Prelaw majors meet the same requirements as general political science majors and may select from the Public Law or any other track within the major. Although there are no required courses, you may want to pay special attention to the following offerings:

The Politics of Law 301
American Constitutional Law 401 & 402
Civil Liberties 404
Criminal Procedure 409
Administrative Law 413
Women Law and Politics 420
International Law 455
Legal Theory and Social Problems 477
Public Dispute Resolution 488

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.

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
POLS 250 International Relations 4
POLS 270 Political Theory 4
POLS 310 American Domestic Policy 4
POLS 304 or POLS 320 State Politics Urban Politics 4
ECON 103 Microeconomics 4
ECON 104 Macroeconomics 4
CS 120 Computer Literacy 4
PSY 221 or QBA 201 or POLS 482 Statistics for Beh. Sciences Intro to Business Statistics Quant. Political Analysis 4

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

### Clinical—at least two of the following:

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

### Social-Organizational—at least two of the following:

- **PSY 261** Industr. and Org. Psych. 4
- **PSY 310** Motivation 4
- **PSY 336** Social Psychology 4
- **PSY 337** Social Psych. of Justice 4
- **PSY 361** Adv. Org. Psychology 4

**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 202** Urban Geography 4
- **GEOG 350** Land Use Planning 4
- **GEOG 326** Urban Geography 4
- **POLS 409** Criminal Procedure 4
- **POLS 495** Internship 4
- **SOC 430** Soc. of Organizations 4

---

The three courses that you choose for your extradepartmental requirement must have the same departmental prefix, with the following exception: If BIOL 101 is used as one of the courses, it may be combined with either two Environmental and Plant Biology (PBIO) courses or two Biological Science (BIOS) courses.

Courses taken to fulfill the extradepartmental requirement simultaneously apply to the College of Arts and Sciences Natural Sciences area requirement.

The intention of the extradepartmental natural science requirement is to provide a basic foundation in at least one natural science area, while allowing flexibility in the choice of area. However, students who are planning to attend graduate school in psychology are encouraged to complete the three courses in Biological Sciences (BIOL, BIOS).

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

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

Requirements for all psychology programs are structured to provide you with exposure to several areas of psychology, while providing latitude in selecting courses to fit your needs and interests. Consult your academic advisor early in your program to plan appropriate course selections, particularly if you are considering graduate work in psychology.
Psychology Minor
Minor code OR4101
The minor in psychology consists of a minimum of 28 hours, with at least two courses at the 300 level or above. PSY 101 and 120 or 221 are required. In addition, at least one course is required in four of the following five areas:

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

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

Psychology Pre–Physical Therapy Major (B.A.)
Special curriculum; major code BA4105
This program prepares you to apply to graduate physical therapy professional programs.

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

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

Sophomore–Junior–Senior
PSY 273 Child and Adoles. Psych. 4
PSY 233 Psych. of Personality 4
PSY 376 Psychological Disorders of Childhood 4
one of:
PSY 275 Educational Psychology 4

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

Sophomore–Junior
PSY 273 Child and Adoles. Psych. 4
PSY 376 Psychological Disorders of Childhood 4
one of:
PSY 275 Educational Psychology 4

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

Sophomore–Junior–Senior
PSY 273 Child and Adoles. Psych. 4
PSY 376 Psychological Disorders of Childhood 4
one of:
PSY 275 Educational Psychology 4

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

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 I, 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
PSY 221 Statistics 5
PSY 273 Child and Adoles. Psych. 4

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

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

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

***You may receive up to five hours of credit in PSY 489 for volunteer work in a physical therapy setting. Volunteer hours are required for application to many physical therapy programs.
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
- SOC 329 Race and Ethnic Relations in the U.S.
- SOC 331 Class and Social Inequality
- SOC 429 Soc of Race, Ethnicity and Class
- SOC 435 Soc of the Welfare State
- SOC 470 Sociology of Gender

### Societal Institutions. At least one of the following

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

### Social Psychology. At least one of the following

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

### Integrative Topics. At least one of the following

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

(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.

#### Required courses (29 credit hours)

- SOC 101 Intro to Sociology
- SOC 221 Elem. Research Tech.
- SOC 351 Dev. of Sociol. Thought
- SOC 404 Introduc. to Research

- MATH 250, MATH 251, or MATH 252
- PSY 221
- QBA 201
- COMS 301
- ISE 304, ISE 305

- SOC 260 Criminal Justice
- SOC 351 Elem. Research Techniques
- SOC 362 Criminology
- SOC 403 Devel. of Soc. Thought

- SOC 404 Modern Soc. Theory
The B.A. program also provides an opportunity to major in a theater major and a broad liberal arts foundation for their university education. It includes a study of theater in the context of human concerns and activities by establishing a solid foundation of course-work in the humanities, sciences, cultures, and languages. It recognizes that many students in the major possess varied talents and interests. You will benefit from the rigorous artistic demands made by courses designed for B.F.A. students in the School of Theater, while also meeting the challenges of a liberal arts education. Although you are encouraged to select courses that provide an emphasis for your work, you are not permitted to major in any one area of theater or to concentrate exclusively on any one area of interest.

The B.A. program also provides an opportunity to major in more than one discipline. Second majors such as: English, history, creative writing, journalism, music, criminal justice administration, prelaw, and sociology have been successful choices.
* Students with 45 or more credits transferring from other colleges within Ohio University may not select the undecided major. Transfer students from other universities are not eligible to enroll as undeclared in Arts and Sciences.

**Virology**

See Biological Sciences—Microbiology.

**Women’s Studies Certificate Program**

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

16 quarter hours:
- WS 100 Intro to Women’s Studies 4
- WS 200 Issues in Feminism 4
- WS 350 Feminist Theory 4
- WS 480 Capstone in Women’s Studies 4

14 quarter hours from the following*:
- AAS 345 The Black Woman 4
- AAS 482 The Black Family 4
- ANTH 345 Gender in Cross-Cultural Perspective 4
- ANTH 349 Life History: The Individual and Culture 4
- ANTH 363 Gender in Prehistory 4
- BIOS 202 Sex Differences and the Brain 4
- CLAS 343 Women in the Ancient Mediterranean 4
- CLWR 484 Women and Religion 4
- COMS 320 Women and Health Communication 4
- COMS 420 Gender and Comm. 4
- COMS 422 Comm. in the Family 4
- ENG 153A Writing and Reading: Gender 5
- ENG 306 Women and Writing 4
- ENG 325 Women and Literature 4
- ENG 326 Lesbian and Gay Literature 4
- ENG 447 Studies in Criticism: Contemporary Feminist Theory Senior Seminar 4
- ENG 460 **Special Topics: Popular and Elite: Culture, Race, Class, and Gender in the American Renaissance 4
- ENG 464 **Major English Authors: Woolf and Winterson 4
- ENG 464 **Major English Authors: Mary Wollstonecraft and Her Circle 4
- ENG 466 **Major Int’l. Authors: Contemporary Narratives of Exile 4
- FILM 472 Primitivism and Film 4
- HCCF 360 Human Sexuality 4
- HCCF 462A Diversity in Families 3
- HIST 320A Women in American History Before 1877 4
- HIST 320B Women in American History Since 1877 4
- HIST 320C Women’s Health and Medicine in U.S. History 4
- HIST 332 Women in the Middle East 4
- HIST 354A History of Early Christianity 4
- HIST 360A Women in Early Modern Europe 4
- HIST 360B Women in Modern Europe 4
- HIST 360C Women Warriors 4
- HIST 371 Witchcraft 1400–1750 4
- HIST 381 History of the Family 4
- HIST 453D Studies in Medieval History: Women in Medieval Society 4
- HLTH 210 Health of Women 4
- IML 335 **Italian Literature in English: Women of the Italian Middle Ages 4
- IML 336 **Gay and Lesbian Writers in Latin America 4
- IML 339A Nineteenth–Century Russian Literature in English: Women, Transgression and Crime 4
- IML 339B Twentieth–Century Russian Literature in English: Love, Sex and Gender 4
- LING 390 Lang. of Women and Men 3
- MGT 462 Women in Management 4
- PBIO 217 Women in Science 4
- PESS 400 Women in Sports 3
- POLS 319 Gay and Lesbian Politics 4
- POLS 420 Women, Law, and Politics 4
- POLS 421 Politics of Law and Sexuality 4
- POLS 478 Feminist Political Theories and Movements 5
- POLS 490 **Studies in Political Science: Gender and Political Development in Africa 4
- POLS 490H **Women in Politics 4
- POLS 490T **Feminist Legal Theory 4
- PSY 378 Psychology of Gender 4
- SOC 220 Introduction to the Family 4
- SOC 407 Feminist Social Theory 4
- SOC 421 Comp. Studies of Family 4
- SOC 422 The American Family System 4
- SOC 467 Violence Against Women 4
- SOC 470 Sociology of Gender 4
- SOC 471 Gender and Justice 4
- TCOM 481 Women and the Media 4
- TCOM 486A Age, Class, Gender, Race, and Sexual Orientation in the Media 4
- WS 210 Women, Gender, and Rock and Roll 4
- WS 320 Sexual Revolutions 4
- WS 360 Women and Work Internship 4
- WS 410 Global Feminisms 4
- WS 411 Women and Globalization 4
- WS 450 Advanced Feminist Theory 4
- WS 460 Gender, Sexuality, and Culture 4
- WS 461 Queer Theory 4
- WS 481 Writing Gender 4
- WS 493 Special Topics 4

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

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

**Women’s Studies Major**

*(pending approval)*

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 ground 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, 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<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>
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Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>WS 360</td>
<td>The Women and Work Internships</td>
<td>4</td>
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<tr>
<td>WS 450</td>
<td>Advanced Feminist Theory</td>
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</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>WS 410</td>
<td>Global Feminisms</td>
<td>4</td>
</tr>
<tr>
<td>WS 411</td>
<td>Women and Globalization</td>
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Select one of the following:

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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>WS 320</td>
<td>Sexual Revolutions</td>
<td>4</td>
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<tr>
<td>WS 460</td>
<td>Gender, Sexuality, and Culture</td>
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</tr>
<tr>
<td>WS 461</td>
<td>Queer Theory</td>
<td>4</td>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>WS 480</td>
<td>Capstone in Women's Studies</td>
<td>4</td>
</tr>
<tr>
<td>WS 481</td>
<td>Writing Gender</td>
<td>4</td>
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### Track Requirements (20 hours)

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

**Global**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<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>CLAS 343</td>
<td>Women in Ancient Mediterranean</td>
<td>4</td>
</tr>
<tr>
<td>HIST 332</td>
<td>Women in the Middle East</td>
<td>4</td>
</tr>
<tr>
<td>HIST 360A</td>
<td>Women in Early Modern Europe</td>
<td>4</td>
</tr>
<tr>
<td>HIST 360B</td>
<td>Women in Modern Europe</td>
<td>4</td>
</tr>
<tr>
<td>HIST 360C</td>
<td>Women Warriors</td>
<td>4</td>
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<tr>
<td>ILML 339A</td>
<td>Russian Lit in English: Women, Transgression, and Crime</td>
<td>4</td>
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<tr>
<td>ILML 339B</td>
<td>20th Century Russian Lit in English: Love, Sex, and Gender</td>
<td>4</td>
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<tr>
<td>SOC 421</td>
<td>Comparative Studies of the Family</td>
<td>4</td>
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<tr>
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<tbody>
<tr>
<td>WS 410</td>
<td>Global Feminisms</td>
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</tr>
<tr>
<td>WS 411</td>
<td>Women and Globalization</td>
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**Sexuality**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENG 326</td>
<td>Lesbian and Gay Literature</td>
<td>4</td>
</tr>
<tr>
<td>HCCF 360</td>
<td>Human Sexualities</td>
<td>4</td>
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<tr>
<td>HCCF 462A</td>
<td>Diversity in Families</td>
<td>4</td>
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<tr>
<td>ILML 339A</td>
<td>Russian Lit in English: Women, Transgression, and Crime</td>
<td>4</td>
</tr>
<tr>
<td>ILML 339B</td>
<td>20th Century Russian Lit in English: Love, Sex, and Gender</td>
<td>4</td>
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<tr>
<td>POLS 319</td>
<td>Gay and Lesbian Politics</td>
<td>4</td>
</tr>
<tr>
<td>POLS 421</td>
<td>Politics of Law and Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>PSY 378</td>
<td>Psychology of Gender</td>
<td>4</td>
</tr>
<tr>
<td>TCOM 484 (486A)</td>
<td>Age, Class, Gender, Race, and Sexuality in the Media</td>
<td>4</td>
</tr>
<tr>
<td>WS 320</td>
<td>Sexual Revolutions</td>
<td>4</td>
</tr>
<tr>
<td>WS 460</td>
<td>Gender, Sexuality, and Culture</td>
<td>4</td>
</tr>
<tr>
<td>WS 461</td>
<td>Queer Theory</td>
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**General**

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<th>Course Code</th>
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<tbody>
<tr>
<td>AAS 345</td>
<td>The Black Woman</td>
<td>4</td>
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<tr>
<td>AAS 482</td>
<td>The Black Family</td>
<td>4</td>
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<tr>
<td>COMS 320</td>
<td>Women and Health Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMS 420</td>
<td>Gender and Communication</td>
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<tr>
<td>COMS 422</td>
<td>Communication and the Family</td>
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<tr>
<td>ENG 153A</td>
<td>Writing and Research: Gender</td>
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<tr>
<td>ENG 306J</td>
<td>Women and Writing</td>
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</tr>
<tr>
<td>ENG 325</td>
<td>Women and Literature</td>
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<tr>
<td>HIST 320A</td>
<td>Women in American History before 1877</td>
<td>4</td>
</tr>
<tr>
<td>HIST 320B</td>
<td>Women in American History after 1877</td>
<td>4</td>
</tr>
<tr>
<td>HIST 320C</td>
<td>Women's Health and Medicine in America</td>
<td>4</td>
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<td>HIST 381</td>
<td>History of the Family</td>
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<tr>
<td>HLTH 210</td>
<td>Health of Women</td>
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<tr>
<td>LING 390</td>
<td>Language of Women and Men</td>
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<tr>
<td>PESS 400</td>
<td>Women in Sports</td>
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<tr>
<td>POLS 420</td>
<td>Women, Law, and Politics</td>
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<td>POLS 478</td>
<td>Feminist Political Theories and Movements</td>
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<td>PSY 378</td>
<td>Psychology of Gender</td>
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<tr>
<td>SOC 220</td>
<td>Introduction to the Family</td>
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<tr>
<td>SOC 407</td>
<td>Feminist Social Theory</td>
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<tr>
<td>SOC 422</td>
<td>The American Family System</td>
<td>4</td>
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<tr>
<td>SOC 467</td>
<td>Violence to Women</td>
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<tr>
<td>SOC 470</td>
<td>Sociology of Gender</td>
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<tr>
<td>SOC 471</td>
<td>Gender and Justice</td>
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<tr>
<td>TCOM 481</td>
<td>Women in Media</td>
<td>4</td>
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<tr>
<td>TCOM 484 (486A)</td>
<td>Age, Class, Gender, Race, and Sexuality in the Media</td>
<td>4</td>
</tr>
<tr>
<td>WS 210</td>
<td>Women, Gender, and Rock &amp; Roll</td>
<td>4</td>
</tr>
</tbody>
</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.