BIOLOGY, BS

Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2023-2024. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 120

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td>3</td>
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American History & Government

HIST 1103 | Survey of American History | 3 |
| or HIST 1483 | American History to 1865 (H) | 3 |
| or HIST 1493 | American History Since 1865 (DH) | 3 |

POLS 1113 | American Government | 3 |

Analytical & Quantitative Thought (A)

STAT 4013 | Statistical Methods I (A) | 3 |
| or STAT 2013 | Elementary Statistics (A) | 3 |
| or STAT 3023 | Statistical Reasoning for Medical Applications (A) | 3 |

MATH 1813 | Preparation for Calculus (A) (or higher) | 3 |

Humanities (H)

Courses designated (H) | 6 |

Natural Sciences (N)

Must include one Laboratory Science (L) course

PHYS 1114 | College Physics I (LN) | 4 |
| or PHYS 2014 | University Physics I (LN) | 4 |
| PHYS 1214 | College Physics II (LN) | 4 |
| or PHYS 2114 | University Physics II (LN) | 4 |

Social & Behavioral Sciences (S)

Course designated (S) | 3 |

Additional General Education

Courses designated (A), (H), (N), or (S) | 6 |

Hours Subtotal | 41 |

Diversity (D) & International Dimension (I)

May be completed in any part of the degree plan
Select at least one Diversity (D) course
Select at least one International Dimension (I) course

College/Departmental Requirements

First Year Seminar
(Transfer students with 15 hours exempt) | 1 |
Arts & Humanities

See note 2.a.

Natural & Mathematical Sciences

CHEM 1314 | Chemistry I (LN) | 4 |
CHEM 1515 | Chemistry II (LN) | 5 |

Foreign Language

See note 3

0-6 hours

Upper-Division General Education

Select 6 hours outside major department
See note 2.c.

Hours Subtotal | 13 |

Major Requirements

Minimum GPA 2.50 in Major Requirements OR minimum grade of “C” in each course.

Core Courses

BIOI 1113 & BIOI 1111 | Introductory Biology (N) and Introductory Biology Laboratory (LN) | 4 |
| or BIOI 1114 | Introductory Biology (LN) | 4 |
BIOI 1604 | Animal Biology | 4 |
BIOI 3023 | General Genetics | 3 |
BIOI 3034 | General Ecology | 4 |
BIOI 4133 | Evolution | 3 |
MICR 2123 | Introduction to Microbiology | 3 |
MICR 2132 | Introduction to Microbiology Laboratory | 2 |
MICR 3033 | Cell and Molecular Biology | 3 |
PBIO 1404 | Plant Biology (LN) | 4 |

Select 9 hours upper-division coursework from: BIOI, MICR, PBIO (excluding general education courses) | 9 |

Related Courses

Physiology, choose from:

BIOI 3204 | Physiology (or) | 4 |
PBIO 4463 & PBIO 4462 | Plant Physiology and Plant Physiology Laboratory | 4 |

Organic Chemistry, choose from:

CHEM 3013 | Survey of Organic Chemistry | 5 |
| & CHEM 3012 | and Survey of Organic Chemistry Laboratory | 5 |
CHEM 3053 | Organic Chemistry I | 5 |
| & CHEM 3112 | and Organic Chemistry Laboratory | 5 |
| & CHEM 3153 | and Organic Chemistry II | 5 |

Supplemental Courses

Select 9 hours upper-division coursework from at least 2 different prefixes from the following (no more than 3 hours of general education in the natural sciences):

ANSI 3543 | Principles of Animal Nutrition | 9 |
ENGL 3323 | Technical Writing | 9 |
HLTH 3113 | Health Issues in Diverse Populations (D) | 9 |
HLTH 3603 | Understanding HIV (DS) | 9 |
HHP 4063 | Neuroanatomy | 9 |
HIST 3913 | History of Medicine (H) | 9 |
NREM 4523 | Wildlife Management Techniques | 9 |
PHIL 3833 | Biomedical Ethics (H) | 9 |
PHIL 4713 | Philosophy of Science (H) | 9 |
PHIL 4733 | Philosophy of Biology (H) | 9 |
PSYC 3073 Neurobiological Psychology (N)  
PSYC 3443 Psychopathology (S)  
PSYC 4263 Affective Neuroscience  
SOC 4153 Sociology of Health and Illness  
SOC 4433 Environmental Sociology (S)  
SOC 4453 Environmental Inequality (S)  
Or from BIOC, CHEM, ENTO, ENVR, GEOG, GEOL, HORT, MATH, NREM, PHYS, PLNT, PLP, SOIL, and STAT  

<table>
<thead>
<tr>
<th>Hours Subtotal</th>
<th>57</th>
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<tr>
<td>Electives 2</td>
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<tr>
<td>Select 9 hours</td>
<td>9</td>
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<tr>
<td>MATH 1513</td>
<td></td>
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<tr>
<td>May need to include 6 hours of a foreign language (see note 3).</td>
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<tr>
<td>May need to include 6 hours upper-division general education outside major department (see note 2.c.) and 7 additional upper-division hours.</td>
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</tr>
<tr>
<td>Hours Subtotal</td>
<td>9</td>
</tr>
<tr>
<td>Total Hours</td>
<td>120</td>
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1. College and Departmental Requirements that may be used to meet General Education Requirements.

2. With approval from the advisor and department head and a minimum GPA of 3.0, a maximum of 30 hours from an accredited doctoral health program may be substituted for electives or major requirements other than BIOL 3023 General Genetics and BIOL 4133 Evolution.

**Other Requirements**
- See the College of Arts and Sciences Requirements.
- Minimum GPA 2.00 in all BIOL courses.
- **Upper-Division Credit**: Total hours must include at least 40 hours in courses numbered 3000 or above.

**College of Arts and Sciences Requirements**

1. **Hours in One Department**: For B.A. and B.S. degrees, no more than 54 hours in one department may be required to meet degree requirements. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54-hour maximum required from one department.

2. **A&S College/Departmental Requirements**
   a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, DANC, ENGL (except ENGL 3323 Technical Writing) HIST, MUSI, PHIL (except PHIL 1313 Logic and Critical Thinking (A), PHIL 3003 Symbolic Logic (A) and PHIL 4003 Mathematical Logic and Computability), REL, TH, and foreign languages.
   b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOC, BIOL, CHEM, CS (except CS 4883 Social Issues in Computing), GEOL, MATH, MICR, PBIO, PHYS, and STAT; or courses from other departments that carry an (A) or (N) general education designation.

   c. Six upper-division hours are required from General Education or any CAS courses outside the student's major department. This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).

   d. Non-Western Studies Requirement for B.A. and B.F.A.; One course in Non-Western Studies (N.W.). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).

   e. The College of Arts & Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses applied to the degree.

3. **Foreign Language Proficiency**
   a. The foreign language requirement for the B.A. may be satisfied by 9 hours college credit in the same language, which must include 3 hours at the 2000-level, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.).
   b. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second-year level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.).
   c. In addition to a. and b., students pursuing teacher certification must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two years of study of a single foreign language with no grade below B. Or, students may complete 3 hours college credit in a single language with no grade below C (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.

4. **Exclusions**: Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.

**Additional State/OSU Requirements**
- At least 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
• Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.

• Degrees that follow this plan must be completed by the end of Summer 2029.