PHYSIOLOGY, BS

Requirements for Students Matriculating in or before Academic Year 2019-2020. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.50
Total Hours: 120

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

General Education Requirements

American History & Government

HIST 1103 | Survey of American History               | 3     |
| or HIST 1483 | American History to 1865 (H)            |       |
| or HIST 1493 | American History Since 1865 (DH)       |       |
| POLS 1113 | American Government                      | 3     |

Analytical & Quantitative Thought (A)

MATH 2144 | Calculus I (A)                           | 4     |
| or STAT 4013 | Statistical Methods I (A)               | 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)              |       |

Social & Behavioral Sciences (S)

Course designated (S)                                     | 3     |

Additional General Education

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

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.                                              | 3     |

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 with a minimum grade of “C” in each course.

Core Courses

BIOL 3653 | Survey of Biochemistry                   | 3     |
BIOL 1114 | Introductory Biology (LN)                | 4     |
BIOL 1604 | Animal Biology                           | 4     |
BIOL 3023 | General Genetics                         |       |
|          | 2                                        |       |
BIOL 3034 | General Ecology                          | 4     |
BIOL 3114 | Vertebrate Zoology                       | 4     |
BIOL 3204 | Physiology                               | 4     |
BIOL 4133 | Evolution                                | 3     |
BIOL 4215 | Mammalian Physiology                     | 5     |
BIOL 4223 | Mammalian Physiology Laboratory          | 3     |
CHEM 3053 | Organic Chemistry I                      | 3     |
CHEM 3112 | Organic Chemistry Laboratory             | 2     |
CHEM 3153 | Organic Chemistry II                     | 3     |
MICR 2123 | Introduction to Microbiology             | 3     |
MICR 2132 | Introduction to Microbiology Laboratory  | 2     |
MICR 3033 | Cell and Molecular Biology               | 3     |

Related Courses

Select two of the following:                                 | 6     |

BIOL 4024 | Histology                                |       |
BIOL 4104 | General Parasitology                    |       |
BIOL 4134 | Embryology                               |       |
BIOL 4253 | Pharmacology                             |       |
BIOL 4273 | Environmental Physiology                |       |
BIOL 4283 | Endocrinology                            |       |
BIOL 4293 | Behavioral Neuroendocrinology            |       |
BIOL 4363 | Principles of Toxicology                |       |
MICR 3223 | Advanced Microbiology                   |       |
MICR 3253 | Immunology                               |       |
MICR 4423 | Antibiotics and Antibiotic Resistance   |       |

Hours Subtotal                                            | 59    |

Electives

Select 6 hours                                               | 6     |

May need to include 6 hours of a foreign language. See note 3
May need to include 6 hours upper-division general education outside major department (see note 2.c.) and 2 additional upper-division hours

Hours Subtotal                                            | 6     |
Total Hours                                               | 120   |
College and Departmental Requirements that may be used to meet Gen Ed Requirements.

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.

• Upper-Division Credit: Total hours must include at least 48 hours in courses numbered 3000 or above.

• Hours in One Department: For B.A. and B.S. degrees, no more than 54 hours in one department may be applied to degree requirements.

College of Arts and Sciences Requirements

1. General Education Requirements
   No more than two courses (or eight hours) from the major department may be used to meet General Education and College and Departmental Requirements. The General Education required English Composition, required U.S. History, required American Government, one required MATH or STAT course, and required foreign language for B.A. degrees do not count against the two-course maximum.

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. The required six hours of upper-division General Education may not include courses from 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 3-hour 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.).

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 2025.