PLANT BIOLOGY: ECOLOGY AND EVOLUTIONARY 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>
</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>3</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>3</td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

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 |

Analytical & Quantitative Thought (A)

STAT 4013 | Statistical Methods I (A) | 3 |
| or STAT 2013 | Elementary Statistics (A) | 3 |

MATH 1813 | Preparation for Calculus (A) (or higher) | 3 |
| or MATH 1613 | Trigonometry (A) | 3 |

Humanities (H)

Courses designated (H) | 6 |

Natural Sciences (N)

Must include one Laboratory Science (L) course

Select four hours from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1113</td>
<td>Introductory Biology (N)</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL 1111</td>
<td>Introductory Biology Laboratory (LN)</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
<td>4</td>
</tr>
</tbody>
</table>

PHYS 1114 | College Physics I (LN) | 4 |

Social & Behavioral Sciences (S)

Courses designated (S) | 3 |

Additional General Education

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

Hours Subtotal | 41 |

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 | 7 |

Hours Subtotal | 13 |

Major Requirements

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3023</td>
<td>General Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3034</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4133</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>PBIO 1404</td>
<td>Plant Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>PBIO 2403</td>
<td>Introduction to Plant Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>PBIO 4005</td>
<td>Field Botany</td>
<td>4-5</td>
</tr>
<tr>
<td>or PBIO 3114</td>
<td>Plant Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>PBIO 4400</td>
<td>Undergraduate Research</td>
<td>1</td>
</tr>
</tbody>
</table>

7 additional hours of PBIO courses.

Select one of the following: | 5-8 |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3013</td>
<td>Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CHEM 3012</td>
<td>and Survey of Organic Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3053</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CHEM 3112</td>
<td>and Organic Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CHEM 3153</td>
<td>and Organic Chemistry II</td>
<td>3</td>
</tr>
</tbody>
</table>

Related Courses

Minimum of 10-14 hours of upper-division coursework (no more than 3 hours of general education courses) from the following:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC; BIOL; CHEM; CS; ENTO; ENVR; GEOG; GEOL; HORT; MATH; MICR; NREM; PBIO; PHYS; PLNT; PLP; SOIL; or STAT.</td>
<td>48</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select 18 hours | 18 |

May need to include 6 hours of a foreign language (see note 3) | 6 |

May need to include 6 hours upper-division general education outside major department (see note 2.c.) | 6 |

Hours Subtotal | 18 |

Total Hours | 120 |

1 College and Departmental Requirements that may be used to meet General Education Requirements.
Other Requirements

- See the College of Arts and Sciences Requirements.
- Minimum GPA of 2.00 in all PBIO 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, 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 (http://catalog.okstate.edu/college-arts-sciences-major-departments/). 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.). Computer Science courses may not be used to satisfy this requirement.
   b. 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 the major requirement. Currently Arabic and Mvskoke are not offered at the 2000-level at OSU.

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.