

PLANT BIOLOGY: ECOLOGY AND EVOLUTIONARY BIOLOGY, BS

Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2025-2026. 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

| Code | Title | Hours |
|---|---|-------|
| General Education Requirements | | |
| <i>English Composition</i> | | |
| See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition) | | |
| ENGL 1113 | Composition I | 3 |
| or ENGL 1313 | Critical Analysis and Writing I | |
| Select one of the following: | | 3 |
| ENGL 1213 | Composition II | |
| ENGL 1413 | Critical Analysis and Writing II | |
| ENGL 3323 | Technical Writing | |
| <i>American History & Government</i> | | |
| 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 |
| <i>Quantitative Thought & Logical Reasoning (Q)</i> | | |
| STAT 4013 | Statistical Methods I (Q) ¹ | 3 |
| or STAT 2013 | Elementary Statistics (Q) | |
| MATH 1813 | Preparation for Calculus (Q) (or higher) | 3 |
| or MATH 1613 | Trigonometry (Q) | |
| <i>Understanding Humanities-Human Heritage & Cultures (H)</i> | | |
| Courses designated (H) | | 6 |
| <i>Reasoning in the Natural Sciences (N)</i> | | |
| Must include one Laboratory-Based Inquiry (L) course | | |
| Select four hours from the following: | | 4 |
| BIOL 1113 | Introductory Biology (N) | |
| & BIOL 1111 | and Introductory Biology Laboratory (LN) ¹ | |
| BIOL 1114 | Introductory Biology (LN) ¹ | |
| PHYS 1114 | College Physics I (LN) ¹ | 4 |
| <i>Exploring Society & Human Behavior (S)</i> | | |
| Courses designated (S) | | 3 |
| <i>Diversity (D)</i> | | |
| Courses designated (D) | | 3 |
| <i>Global Cultural Competency (G)</i> | | |
| Courses designated (G) | | 3 |
| <i>Additional General Education</i> | | |

Additional general education credit hours may be required to meet the total 40-hour minimum of general education credit if courses carry more than one general education designation and can be used to meet multiple general education designation hour requirements above.

Courses designated (Q), (H), (N), (S), (D), (G), or (F). 0

Hours Subtotal 41

College/Departmental Requirements

| | | |
|-----------|---|---|
| UNIV 1111 | First Year Seminar (or other first-year seminar course) | 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

Core Courses

BIOL 3023 General Genetics 3

BIOL 3034 General Ecology 4

BIOL 4133 Evolution 3

PBIO 1404 Plant Biology (LN) 4

PBIO 2403 Introduction to Plant Molecular Biology 3

PBIO 4005 Field Botany 4-5

or PBIO 3114 Plant Taxonomy

PBIO 4400 Undergraduate Research 1

7 additional hours of PBIO courses. 7

Select one of the following: 5-8

CHEM 3013 & CHEM 3012 Survey of Organic Chemistry and Survey of Organic Chemistry Laboratory

CHEM 3053 & CHEM 3112 & CHEM 3153 Organic Chemistry I and Organic Chemistry Laboratory and Organic Chemistry II

Related Courses

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

BIOC; BIOL; CHEM; CS; ENTO; ENVR; GEOG; GEOL; HORT; MATH; MICR; NREM; PBIO; PHYS; PLNT; PLP; SOIL; or STAT.

Hours Subtotal 48

Electives

Select 18 hours 18

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.)

| | |
|-----------------------|------------|
| 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 (Q), PHIL 3003 Symbolic Logic (Q) 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 (<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. Currently Arabic and Mvskoke are not offered at the 2000-level at OSU.

- 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.). Computer Science courses may not be used to satisfy this requirement.
- 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 and 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 2031.