PLANT BIOLOGY: PRE-FORENSICS, 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: 2.50
Total Hours: 120

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### General Education Requirements

#### English Composition

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 from the following:

- ENGL 1213 Composition II 3
- ENGL 1413 Critical Analysis and Writing II
- ENGL 3323 Technical Writing 3

#### 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)

- MATH 1813 Preparation for Calculus (A) (or higher) 3
- or MATH 1613 Trigonometry (A) 3
- STAT 4013 Statistical Methods I (A) 3
- or STAT 2013 Elementary Statistics (A) 3

#### Humanities (H)

Courses designated (H) 6

#### Natural Sciences (N)

Must include one Laboratory Science (L) course.

Select four hours from the following:

- BIOL 1113 Introductory Biology (N) 4
- & BIOL 1111 and Introductory Biology Laboratory (LN) 4
- BIOL 1114 Introductory Biology (LN) 4
- PHYS 1114 College Physics I (LN) 4

#### Social & Behavioral Sciences

Courses 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.

At least one Diversity (D) course.

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 Languages

0-6 hours (See note 3.)

Upper-Division General Education

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 4013 Biological Microtechnique 3
- PBIO 4400 Undergraduate Research (1 hour) 1
- PBIO 4524 Biological Laboratory Instrumentation 4
- CHEM 3053 Organic Chemistry I 3
- CHEM 3112 Organic Chemistry Laboratory 2
- CHEM 3153 Organic Chemistry II 3

7 additional hours of PBIO courses. 7

### Pre-Forensics Courses (choose 12 hours from the following - may need to include 12 upper-division hours):

- BIOC 3653 Survey of Biochemistry 4
- BIOC 3723 Biochemistry and Molecular Biology Laboratory 4
- CHEM 2113 Principles of Analytical Chemistry 4
- CHEM 2122 Quantitative Analysis Laboratory 4
- ENTO 4573 Introduction to Forensic Entomology 4
- MIRC 2123 Introduction to Microbiology 4
- MIRC 2132 Introduction to Microbiology Laboratory 4
- MIRC 3033 Cell and Molecular Biology 4
- SOC 4333 Criminology (S) 4
- SOC 4733 Criminal Behavior Analysis 4

### Hours Subtotal

52

### Electives

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.).

14 hours of Electives 14

### Recommended courses:

- PBIO 3114 Plant Taxonomy
- PBIO 3553 Fungi: Myths and More
- PBIO 4005 Field Botany
- SOC 4733 Criminal Behavior Analysis
- SOC 4753 Advanced Forensics
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, 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.). 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.