PLANT BIOLOGY, BS

Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2024-2025. 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

General Education Requirements English Composition See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition) ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I Select one of the following: ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government HIST 1103 Survey of American History or HIST 1483 American History to 1865 (H) or HIST 1493 American History to 1865 (H) or HIST 1493 American History Since 1865 (DH) POLS 1113 American Government 3 Analytical & Quantitative Thought (A) STAT 4013 Statistical Methods I (A) 1 3 or STAT 2013 Elementary Statistics (A) MATH 1813 Preparation for Calculus (A) (or higher) 3 or MATH 1613 Trigonometry (A) Humanities (H) Courses designated (H) Autural Sciences (N) Must include one Laboratory Science (L) course Select four hours from the following: 4 BIOL 1111 Introductory Biology (N) & BIOL 1111 and Introductory Biology (LN) 1 BIOL 1114 College Physics I (LN) 1 AScial & Behavioral Sciences (S) Courses designated (S) Additional General Education Courses designated (S) 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	Code	Title	Hours
See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition) ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I Select one of the following: ENGL 1213 Composition II ENGL 1213 Critical Analysis and Writing II ENGL 3323 Technical Writing 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) STAT 4013 Statistical Methods I (A) 1 3 or STAT 2013 Elementary Statistics (A) MATH 1813 Preparation for Calculus (A) (or higher) 3 or MATH 1613 Trigonometry (A) Humanities (H) Courses designated (H) Astural Sciences (N) Must include one Laboratory Science (L) course Select four hours from the following: 4 BIOL 1113 Introductory Biology (LN) 1 BIOL 1114 Introductory Biology (LN) 1 BIOL 1114 Introductory Biology (LN) 1 PHYS 1114 College Physics I (LN) 1 4 Social & Behavioral Sciences (S) 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 International Dimension (I) course College/Departmental Requirements First Year Seminar	General Education F	Requirements	
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Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar	Diversity (D) & Inter	national Dimension (I)	
Select at least one International Dimension (I) course College/Departmental Requirements First Year Seminar	May be completed i	n any part of the degree plan	
College/Departmental Requirements First Year Seminar	Select at least one	Diversity (D) course	
First Year Seminar	Select at least one	International Dimension (I) course	
	College/Departmen	tal Requirements	
(Transfer students with 15 hours exempt)	First Year Seminar		
	(Transfer students	with 15 hours exempt)	1

Arts & Humanities

Arts & Humanities		
See note 2.a.		3
Natural & Mathematica	al Sciences	
CHEM 1314	Chemistry I (LN)	4
CHEM 1515	Chemistry II (LN)	5
Foreign Language		
See note 3		
0-6 hours		
Upper-Division General	l Education	
Select 6 hours outsid	e 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 4400	Undergraduate Research	1
7 additional hours of	PBIO courses	7
Select one of the fe	ollowing:	
CHEM 3013 & CHEM 3012	Survey of Organic Chemistry and Survey of Organic Chemistry Laboratory	
or	·	
CHEM 3053 & CHEM 3112 & CHEM 3153	Organic Chemistry I and Organic Chemistry Laboratory and Organic Chemistry II	
Related Courses:		
	hours of upper-division course work (no of general education courses) from the	
	, CS; ENTO; ENVR; GEOG; GEOL; HORT; M; PBIO; PHYS; PLNT; PLP; SOIL; or STAT	
Hours Subtotal		48
Electives		
Select 18 hours		18
	6 hours of a foreign language (see note 3)	
outside major departi	6 hours upper-division general education ment (see note 2.c.)	
Hours Subtotal		18
Total Hours		120

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

 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 54hour 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 (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.
- 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.

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; onefourth 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 2030.

Example Plan of Study

Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

Course	Title	Hours
Freshman		
Fall		
First Year Seminar		1
ENGL 1113 or ENGL 1313	Composition I or Critical Analysis and Writing I	3
MATH 1813	Preparation for Calculus (A) (or higher)	3
PBIO 1404	Plant Biology (LN)	4
General Education or Ele	ctive courses	3
	Hours	14
Spring		
ENGL 1213 or ENGL 1413	Composition II or Critical Analysis and Writing II	3
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN)	4
CHEM 1314	Chemistry I (LN)	4
General Education or Ele	4	
	Hours	15
Sophomore		
Fall		
CHEM 1515	Chemistry II (LN)	5
PHYS 1114	College Physics I (LN)	4

General Education, Col	lege, or Major courses	7
	Hours	16
Spring		
CHEM 3013 or CHEM 3053	Survey of Organic Chemistry or Organic Chemistry I	3
CHEM 3012	Survey of Organic Chemistry Laboratory	2
Students who take College, or Elective	CHEM 3053 should plan to enroll in 6 hours of Major, courses	
PBIO 2403	Introduction to Plant Molecular Biology	3
General Education, Col	lege, or Major courses	6
	Hours	14
Junior		
Fall		
BIOL 3034	General Ecology	4
CHEM 3153	Organic Chemistry II	5
& CHEM 3112	and Organic Chemistry Laboratory	
CHEM 3153 and CH CHEM 3053	HEM 3112 should be taken if student previously took	
Major, College, and Elec	ctive courses	6
	Hours	15
Spring		
BIOL 3023	General Genetics	3
PBIO 4400	Undergraduate Research	1
Major, College, and Elec	ctive courses	12
	Hours	16
Senior		
Fall		
BIOL 4133	Evolution	3
Major, College, and Elective courses		12
	Hours	15
Spring		
Major, College, and Elective courses		
	Hours	15
	Total Hours	120

Speak with your academic advisor about pairing your General Education Humanities (H) or Social Sciences (S) courses with General Education International (I) and Diversity (D) dimensions.