ZOOLOGY: ECOLOGY AND CONSERVATION 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 I	Requirements		
English Composition			
-	ulation 3.5 (http://catalog.okstate.edu/ c-regulations/#english-composition)		
ENGL 1113	Composition I	3	
or ENGL 1313	Critical Analysis and Writing I		
Select one of the fo	llowing:	3	
ENGL 1213	Composition II		
ENGL 1413	Critical Analysis and Writing II		
ENGL 3323	Technical Writing		
American History & 0	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	
Quantitative Though	t & Logical Reasoning (Q)		
MATH 1813	Preparation for Calculus (Q) (or higher) ¹	3	
STAT 4013	Statistical Methods I (Q) ¹	3	
or STAT 2013	Elementary Statistics (Q)		
or STAT 3023	Statistical Reasoning for Medical Application	ns (Q)	
Understanding Huma	anities-Human Heritage & Cultures (H)		
Courses designated	I (H)	6	
Reasoning in the Na	tural Sciences (N)		
Must include one La	aboratory-Based Inquiry (L) course		
PHYS 1114	College Physics I (LN) ¹	4	
or PHYS 2014	University Physics I (LN)		
PHYS 1214	College Physics II (LN) ¹	4	
or PHYS 2114	University Physics II (LN)		
Exploring Society & I	Human Behavior (S)		
Course designated	(S)	3	
Diversity (D)			
Courses designated	I (D)	3	
Global Cultural Comp	petency (G)		
Courses designated	I (G)	3	
Additional General Education			
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.			

Hours Subtotal		41
College/Departmen	tal Requirements	
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
Arts & Humanities		
See note 2.a.		3
Natural & Mathemat	ical Sciences	
CHEM 1314	Chemistry I (LN)	4
CHEM 1515	Chemistry II (LN)	5
Foreign Language		
See note 3		
0-6 hours		
Upper-Division Gene	ral Education	
Select 6 hours outs	ide major department	
See note 2.c.		
Hours Subtotal		13
Major Requirement	s ²	
Minimum grade of '	"C" in each course.	
Core Courses		
BIOL 1113	Introductory Biology (N)	4
& BIOL 1111	and Introductory Biology Laboratory (LN)	
or BIOL 1114	Introductory Biology (LN)	
BIOL 1604	Animal Biology	4
BIOL 3023	General Genetics ²	3
BIOL 3034	General Ecology	4
BIOL 3104	Invertebrate Zoology	4
BIOL 3114	Vertebrate Zoology	4
BIOL 3204	Physiology	4
BIOL 4133	Evolution ²	3
BIOL 4700	Undergraduate Research Problems (1 hour)	1
or BIOL 4710	Internships in Integrative Biology	
or BIOL 4730	Collaborative Research in Integrative Biology	0
MICR 2123	Introduction to Microbiology	3
or MICR 3033	Cell and Molecular Biology	4
	hours upper-division BIOL courses with a st one course (excluding general education	4
Organic Chemistry,	choose from:	5
CHEM 3013 & CHEM 3012	Survey of Organic Chemistry and Survey of Organic Chemistry	
CHEM 3053 & CHEM 3112	Laboratory Organic Chemistry I and Organic Chemistry Laboratory	
& CHEM 3153	and Organic Chemistry II	
Related Courses		
BIOL 3153	Animal Behavior	3
BIOL 3513	Principles of Conservation Biology	3
PBIO 1404	Plant Biology (LN)	4
or PBIO 4005	Field Botany	
Supplemental Cours	es	
Select one of the fo	llowing:	3
ENGL 3323	Technical Writing	

	ENTO 4223	Ecological Methodology		
	ENTO 4484	Aquatic Entomology		
	ENVR 3113	Environmental Sampling and Analysis		
	ENVR 4033	Ecology of Invasive Species		
	GEOG 3023	Climatology (N)		
	GEOG 3153	Conservation of Natural Resources (S)		
	GEOG 3373	Health and Maps		
	GEOG 4053	Biogeography, Biodiversity, and Humankind		
	GEOG 4073	Climate Change: Past, Present, and Future		
	GEOG 4203	Fundamentals of Geographic Information Systems		
	GEOG 4333	Remote Sensing		
	GEOL 3503	Environmental Geology (N)		
	GEOL 4453	Hydrogeology		
	GEOL 4503	Introduction to Oceanography (N)		
	NREM 3143	Forest Biology		
	NREM 3153	Forest Health and Disturbance Ecology		
	NREM 3503	Principles of Wildlife Ecology and Management		
	NREM 3523	Fish and Wildlife Population Biology		
	NREM 4023	Restoration Ecology		
	NREM 4033	Ecology Of Invasive Species		
	NREM 4043	Natural Resource Administration and Policy		
	NREM 4443	Watershed Hydrology and Water Quality		
	NREM 4523	Wildlife Management Techniques		
	NREM 4543	Wildlife Management for Biodiversity		
	PHIL 3733	Environmental Ethics (H)		
	POLS 4363	Environmental Law And Policy		
	SOC 4433	Environmental Sociology (S)		
	Hours Subtotal		56	
	Electives ²			
Select 10 hours			10	
MATH 1513 required for students who do not place directly into MATH 1813.				

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 7 additional upper-division hours

PSYC 1113 and SOC 1113 recommended

Hours Subtotal	10
Total Hours	120

1

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

2

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.
- · Minimum 2.0 GPA in all BIOL 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 (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.
- 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; 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 2031.