ZOOLOGY: PRE-MEDICAL SCIENCES, 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

requirements above.

Code	Title	Hours
General Education	Requirements	
English Composition	1	
5	ulation 3.5 (http://catalog.okstate.edu/	
university-academi	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 &	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) $^{ m 1}$	3
STAT 4013	Statistical Methods I (Q) 1	3
or STAT 2013	Elementary Statistics (Q)	
or STAT 3023	Statistical Reasoning for Medical Application	ons (Q)
Understanding Hum	anities-Human Heritage & Cultures (H)	
Courses designated	1 (H)	6
Reasoning in the Na	tural Sciences (N)	
Must include one L	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		
Course designated	. ,	3
Diversity (D)	(-)	
Courses designated	1 (D)	3
Global Cultural Com	. ,	0
Courses designated		3
Additional General E		0
	education credit hours may be required to	
5	our minimum of general education credit if	
	than one general education designation and	
can be used to mee	t multiple general education designation hour	

Courses designated (Q), (H), (N), (S), (D), (G), or (F).		
Hours Subtotal		41
College/Department	al Requirements	
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
Arts & Humanities	year seminar course)	
See note 2.a.		3
Natural & Mathematic	nal Salanaa	5
CHEM 1314	Chemistry I (LN)	4
CHEM 1515	Chemistry II (LN)	-4
Foreign Language	Chemistry II (LN)	5
See note 3		
0-6 hours		
Upper-Division Genera	al Education	
See note 2.c.	de major department	
		10
Hours Subtotal	2	13
Major Requirements		
Minimum grade of "	in each course.	
Core Courses		
BIOL 1113 & BIOL 1111	Introductory Biology (N)	4
	and Introductory Biology Laboratory (LN)	
or BIOL 1114 BIOL 1604	Introductory Biology (LN)	4
	Animal Biology	4
BIOL 3023	General Genetics ²	3
BIOL 3034	General Ecology	4
BIOL 3104	Invertebrate Zoology	4
or BIOL 4104	General Parasitology	
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	
CHEM 3053	Organic Chemistry I	3
CHEM 3112	Organic Chemistry Laboratory	2
CHEM 3153	Organic Chemistry II	3
MICR 2123	Introduction to Microbiology	3
MICR 2132	Introduction to Microbiology Laboratory	2
MICR 3033	Cell and Molecular Biology	3
	-division BIOL courses with a laboratory in at cluding general education courses)	4
	cluding general education courses)	
Related Courses BIOC 3653	Company of Dischargistme	2
	Survey of Biochemistry	3
Supplemental Course		0
Select one of the foll	•	3
CHEM 4313	Medicinal Organic Chemistry	
ENGL 3323	Technical Writing	
GEOG 3373	Health and Maps	
HDFS 4813	Dying, Death and Bereavement	
HHP 4064	Neuroanatomy	
HIST 3913	History of Medicine (H)	

Total Hours		120
Hours Subtotal		9
PSYC 1113 and SOC	1113 recommended.	
,	6 hours upper-division general education tment (see note 2.c.) and 4 additional upper-	
-	6 hours of a foreign language. (see note 3)	
MATH 1513 required MATH 1813.	I for students who do not place directly into	
Select 9 hours		9
Electives ²		
Hours Subtotal		57
PSYC 3443	Psychopathology (S)	
SOC 4153	Sociology of Health and Illness	
PHIL 4733	Philosophy of Biology (H)	
PHIL 4713	Philosophy of Science (H)	
PHIL 3833	Biomedical Ethics (H)	
MICR 3553	Foundations of Cancer	
MICB 3253	Immunology	
HLTH 3723	Principles of Epidemiology	
HLTH 3603	Understanding HIV (DS)	
HITH 3113	Health Issues in Diverse Populations (D)	

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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.

Additional requirements for professional school admission exist. View Admission Requirement Sheets at prehealth.okstate.edu (http:// prehealth.okstate.edu).

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.
- 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; 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.