PHYSIOLOGY, 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: 2.50

Total Hours: 120

Code Title	
Code Title	Hours
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 of the following:	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 Thought & Logical Reasoning (Q)	
MATH 2144 Calculus I (Q) ¹	4
STAT 4013 Statistical Methods I (Q) ¹	3
or STAT 2013 Elementary Statistics (Q)	
or STAT 3023 Statistical Reasoning for Medical Applica	tions (Q)
Understanding Humanities-Human Heritage & Cultures (H)	
Courses designated (H)	6
Reasoning in the Natural Sciences (N)	
Must include one Laboratory-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 & Human Behavior (S)	
Course designated (S)	3
Diversity (D)	
Courses designated (D)	3
Global Cultural Competency (G)	
Courses designated (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	ł
can be used to meet multiple general education designation ho	ur
requirements above.	
Courses designated (Q), (H), (N), (S), (D), (G), or (F).	0
Hours Subtotal	42

College/Departmental Requirements

College/Departmenta	l Requirements			
UNIV 1111	First Year Seminar (or other approved 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		
0-6 hours				
Upper-Division General Education				
Select 6 hours outside major department				
See note 2.c.				
Hours Subtotal		13		
Major Requirements	2			
Minimum GPA 2.50 in of "C" in each course.	Major Requirements with a minimum grade			
Core Courses				
BIOC 3653	Survey of Biochemistry	3		
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN)	4		
or BIOL 1114	Introductory Biology (LN)			
BIOL 1604	Animal Biology	4		
BIOL 3023	General Genetics ²	3		
BIOL 3034	General Ecology	4		
BIOL 3114	Vertebrate Zoology	4		
BIOL 3204	Physiology	4		
BIOL 4133	Evolution ²	3		
BIOL 4215	Mammalian Physiology	5		
BIOL 4223	Mammalian Physiology Capstone Laboratory	3		
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		
Related Courses	., -			
Select two courses, ir	ncluding at least one BIOL, from the	6		
following:				
ANSI 3543	Principles of Animal Nutrition			
BIOL 4024	Histology			
BIOL 4073	Principles of Neuroscience			
BIOL 4104	General Parasitology			
BIOL 4134	Embryology			
BIOL 4253	Pharmacology			
BIOL 4273	Environmental Physiology			
BIOL 4283	Endocrinology			
BIOL 4293	Behavioral Neuroendocrinology			
BIOL 4303	Organismal Ecotoxicology			
BIOL 4363	Principles of Toxicology			
HHP 4064	Neuroanatomy			

Total Hours		120
Hours Subtotal		6
•	6 hours upper-division general education ment (see note 2.c.) and 2 additional upper-	
May need to include	6 hours of a foreign language. See note 3	
MATH 1513 and MAT place directly into MA	TH 1813 required for students who do not ATH 2144.	
Select 6 hours		6
Electives ²		
Hours Subtotal		59
MICR 4423	Antibiotics and Antibiotic Resistance	
MICR 4123	Virology	
MICR 3553	Foundations of Cancer	
MICR 3253	Immunology	
MICR 3143	Medical Mycology	
MICR 3223	Advanced Microbiology	

College and Departmental Requirements that may be used to meet

General Education Requirements.

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.
- 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.