BIOLOGY: ENVIRONMENTAL BIOLOGY, 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: 2.00

Total Hours: 120

Seneral Education Requirements	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: 3 ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 323 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) MATH 1813 Preparation for Calculus (A) (or higher) 1 3 STAT 4013 Statistical Methods I (A) 1 3 or STAT 2013 Elementary Statistics (A) or STAT 3023 Statistical Reasoning for Medical Applications (A) Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course PHYS 1114 College Physics I (LN) 1 4 or PHYS 2014 University Physics I (LN) PHYS 1214 College Physics II (LN) Social & Behavioral Sciences (S) Course 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 Select at least one International Dimension (I) course College/Departmental Requirements	General Education R	equirements		
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 Analytical & Quantitative Thought (A) MATH 1813 Preparation for Calculus (A) (or higher) 1 3 STAT 4013 Statistical Methods I (A) 1 3 or STAT 2013 Elementary Statistics (A) or STAT 3023 Statistical Reasoning for Medical Applications (A) Humanities (H) Courses designated (H) 6 Astural Sciences (N) Must include one Laboratory Science (L) course PHYS 1114 College Physics I (LN) 1 4 or PHYS 2014 University Physics I (LN) PHYS 1214 College Physics II (LN) 3 4 Or PHYS 2114 University Physics II (LN) Social & Behavioral Sciences (S) Course designated (S) 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 1 and part of the degree plan Select at least one Diversity (D) course Select at least one International Dimension (I) course College/Departmental Requirements	English Composition			
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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	Hours Subtotal		41	
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	Diversity (D) & International Dimension (I)			
Select at least one International Dimension (I) course College/Departmental Requirements				
College/Departmental Requirements	Select at least one Diversity (D) course			
College/Departmental Requirements	Select at least one International Dimension (I) course			
	College/Department	al Requirements		
First Year Seminar				

(Transfer students w	ith 15 hours exempt)	1
Arts & Humanities		
See note 2.a.		3
Natural & Mathematic		
CHEM 1314	Chemistry I (LN)	4
CHEM 1515	Chemistry II (LN)	5
Foreign Language		
See note 3		
0-6 hours		
Upper-Division Genera	l Education	
Select 6 hours outsid	le major department	
See note 2.c.		
Hours Subtotal		13
Major Requirements	2	
Minimum GPA 2.50 ir "C" in each course.	n Major Requirements OR minimum grade of	
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 4133	Evolution ²	3
MICR 2123	Introduction to Microbiology	3
MICR 2132	Introduction to Microbiology Laboratory	2
MICR 3033	Cell and Molecular Biology	3
PBIO 1404	Plant Biology (LN)	4
	per-division coursework from: BIOL, MICR, eral education courses)	6
Related Courses		
BIOL 3163	Environmental Biology	3
Physiology, choose fr	rom:	4
BIOL 3204	Physiology (or)	
PBIO 4462	Plant Physiology Laboratory	
& PBIO 4463	and Plant Physiology	
Organic Chemistry, cl	hoose from:	5
CHEM 3013	Survey of Organic Chemistry	
& CHEM 3012	and Survey of Organic Chemistry	
	Laboratory	
CHEM 3053	Organic Chemistry I	
& CHEM 3112	and Organic Chemistry Laboratory	
& CHEM 3153	and Organic Chemistry II	0
	llowing from at least 2 different prefixes.:	9
BIOL 3513	Principles of Conservation Biology	
BIOL 4273	Environmental Physiology	
BIOL 4303	Organismal Ecotoxicology	
BIOL 4363	Principles of Toxicology	
BIOL 4434	Limnology	
GEOG 3023	Climatology (N)	
GEOG 3153	Conservation of Natural Resources (S)	
GEOG 3373	Health and Maps	
GEOG 4053	Biogeography	

Total Hours		120
Hours Subtotal		9
•	6 hours upper-division general education tment (see note 2.c.) and 7 additional upper-	
	6 hours of a foreign language. (see note 3.)	
MATH 1813 (or MAT	•	
Select 9 hours		9
Electives ²		
Hours Subtotal	3, ()	57
SOC 4433	Environmental Sociology (S)	
PBIO 4005	Field Botany	
NREM 4523	Wildlife Management Techniques	
NREM 4443	Watershed Hydrology and Water Quality	
NREM 4033	Ecology Of Invasive Species	
NRFM 4023	Restoration Ecology	
GEOL 4503	Introduction to Oceanography (N)	
GEOL 4453	Hydrogeology	
GEOL 3503	Environmental Geology (N)	
GEOG 4333	Remote Sensing	
GEOG 4073	Climate Change: Past, Present, and Future	

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 GPA 2.00 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 (A), PHIL 3003 Symbolic Logic (A) and PHIL 4003 Mathematical Logic and Computability), REL, TH, and foreign languages.
- 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 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 2029.

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		
ENGL 1113	Composition I	3
or ENGL 1313	or Critical Analysis and Writing I	
BIOL 1113 & BIOL 1111	Introductory Biology (N)	4
MATH 1813	and Introductory Biology Laboratory (LN)	3
	Preparation for Calculus (A)	
General Education and		5
Carina	Hours	15
Spring ENGL 1213	Commonition II	3
or ENGL 1413	Composition II or Critical Analysis and Writing II	3
BIOL 1604	Animal Biology	4
CHEM 1314	Chemistry I (LN)	4
General Education cou		4
	Hours	15
Sophomore		
Fall		
CHEM 1515	Chemistry II (LN)	5
PBIO 1404	Plant Biology (LN)	4
STAT 2013	Elementary Statistics (A)	3
or STAT 4013	or Statistical Methods I (A)	
General Education cou	rses	3
	Hours	15
Spring		
BIOL 3034	General Ecology	4
BIOL 3163	Environmental Biology	3
CHEM 3013	Survey of Organic Chemistry	3
or CHEM 3053	or Organic Chemistry I	
MICR 2123	Introduction to Microbiology	3
General Education cou	rses	2
	Hours	15
Junior		
Fall		
MICR 2132	Introduction to Microbiology Laboratory	2
CHEM 3012 or CHEM 3112	Survey of Organic Chemistry Laboratory or Organic Chemistry Laboratory	2
Major, College, and Ele		11
	Hours	15
Spring		
PHYS 1114	College Physics I (LN)	4

	Total Hours	120
	Hours	15
Major, College, and Elective courses		12
BIOL 4133	Evolution	3
Spring		
	Hours	15
General Education and Elective courses		8
PHYS 1214	College Physics II (LN)	4
BIOL 3023	General Genetics	3
Fall		
Senior		
	Hours	15
Major and Elective co	ourses	4
(PBIO 4462 if PBIO 4	463 is selected)	
or PBIO 4463	or Plant Physiology	
BIOL 3204	Physiology	4
MICR 3033	Cell and Molecular Biology	3