BIOLOGY: SECONDARY TEACHER CERTIFICATION, 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: 2.50

Total Hours: 120

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:			
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 & Quantitat			
MATH 1813	Preparation for Calculus (A) (or higher) 1,2	3	
STAT 4013	Statistical Methods I (A) 1, 2	3	
or STAT 2013	Elementary Statistics (A)		
Humanities (H)			
PHIL 3933	Creation and Evolution ¹	3	
Course designated (H) 3			
Natural Sciences (N)			
Must include one Laboratory Science (L) course			
PHYS 1114	College Physics I (LN) 1, 2	4	
or PHYS 2014	University Physics I (LN)		
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN) 1,2	4	
or BIOL 1114	Introductory Biology (LN)		
PBIO 1404	Plant Biology (LN) 1,2	4	
Social & Behavioral So	ciences (S)		
Course designated (S)			
Additional General Ed	ucation		
Courses designated (A), (H), (N), or (S)		1	
Hours Subtotal			
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/Department	tal Requirements	
First Year Seminar	an riequitement	
	vith 15 hours exempt)	1
Arts & Humanities	with 13 hours exempt)	'
See note 2.a.		3
Natural & Mathemati	inal Cajanaga	3
CHEM 1314	Chemistry I (LN) ²	4
CHEM 1515	Chemistry II (LN) ²	5
	Chemistry II (LN)	Э
Foreign Language		
See note 3		
0-6 hours	let «	
Upper-Division Gener		
	de major department	
See note 2.c.		10
Hours Subtotal		13
Major Requirements	5	
Biology Core:		
	and minimum grade of "C" or "P" for courses those denoted with ²	
BIOL 1604	Animal Biology	4
BIOL 3023	General Genetics	3
BIOL 3034	General Ecology	4
BIOL 3204	Physiology	4
BIOL 4133	Evolution	3
CHEM 3013	Survey of Organic Chemistry	3
MICR 2123	Introduction to Microbiology	3
MICR 2132	Introduction to Microbiology Laboratory	2
MICR 3033	Cell and Molecular Biology	3
Select 3 hours PBIO	coursework 3000- or 4000-level.	3
Secondary Education	Professional Core:	
Minimum GPA 2.50 course	and minimum grade of "C" or "P" in each	
SMED 1012	Inquiry Approaches to Teaching	2
SMED 3013	Knowing and Learning in Mathematics and Science	3
SMED 4023	Problem-Based Learning in Mathematics and Science	3
SMED 4611	Authentic Research in the Science Classroom ³	1
SMED 4613	Teaching the Nature of Science Through an Inquiry Approach ³	3
SMED 4713	Teaching and Learning Science in the Secondary School ³	3
SMED 4723	Senior Seminar in Secondary Mathematics and Science Education ³	3
CDED 2202		0
SPED 3202 CIED 3313	Educating Exceptional Learners (D) Field Experience in the Secondary Schools	2
CIED 4133	Introduction to K-12 English Language	3
CIED 4720	Learners Internship in the Secondary Classroom ³	c
Hours Subtotal	internship in the Secondary Classicon	6
Electives		64
		2
Select 3 hours		3

MATH 1513 required for students who do not place directly into MATH 1813 (or MATH 1613).

May need to include 3 hours of a foreign language (see note 3)

Hours Subtotal

3

Total Hours 120

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.