

MIDDLE LEVEL EDUCATION: SCIENCE EDUCATION, BS

Requirements for Students Matriculating in or before Academic Year 2026-2027. Learn more about University Academic Regulation 3.1 (<https://catalog.okstate.edu/university-academic-regulations/#matriculation>).

Minimum Overall Grade Point Average: 2.50

Total Hours: 120

Code	Title	Hours
General Education Requirements		
<i>English Composition</i>		
See Academic Regulation 3.5 (https://catalog.okstate.edu/university-academic-regulations/#english-composition)		
ENGL 1113	Composition I ¹	3
or ENGL 1313	Critical Analysis and Writing I	
Select one of the following:		3
ENGL 1213	Composition II ¹	
ENGL 1413	Critical Analysis and Writing II ¹	
ENGL 3323	Technical Writing ¹	
<i>American History & Government</i>		
Select one of the following:		3
HIST 1103	Survey of American History	
HIST 1483	American History to 1865 (H)	
HIST 1493	American History Since 1865 (DH)	
POLS 1113	American Government	3
<i>Quantitative Thought & Logical Reasoning (Q)</i>		
STAT 4013	Statistical Methods I (Q) ^{1, 2}	3
or STAT 4053	Statistical Methods I for the Social Sciences (Q)	
Choose one of the following:		3
MATH 1583	Applied Geometry and Trigonometry (Q) ^{1, 2}	
MATH 1613	Trigonometry (Q) ^{1, 2}	
MATH 1813	Preparation for Calculus (Q) ^{1, 2}	
<i>Understanding Humanities-Human Heritage & Cultures (H)</i>		
Course designated (H)		6
<i>Reasoning in the Natural Sciences (N)</i>		
Courses designated (N) with one (L)		
ASTR 1013	The Solar System (N)	3
Choose one of the following:		4
PHYS 1014	Descriptive Physics (N)	
PHYS 1114	College Physics I (LN)	
PHYS 2014	University Physics I (LN)	
<i>Exploring Society & Human Behavior (S)</i>		
Courses designated (S)		3
<i>Diversity (D)</i>		
Courses designated (D)		3
<i>Global Cultural Competency (G)</i>		
Courses designated (G)		3
<i>Additional General Education</i>		

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.

Courses designated (Q), (H), (N), (S), (D), (G), or (F).		0
Hours Subtotal		40
College/Departmental Requirements		
Minimum grade of "C" or "P" in each course		
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
EDHS 3111	Preparing for Your Future Career	1
<i>Electives</i>		
Select 8 hours. SMED 4353 and ANSI 3433 are recommended electives		8
3 hours may need to be foreign language.		
Hours Subtotal		10
Major Requirements		
Minimum GPA 2.50 with a minimum grade of "C" or "P" in each course in the emphasis area and those with 1, 2 footnote.		
CIED 3313	Field Experience in the Secondary Schools	3
CIED 4133	Introduction to K-12 English Language Learners	3
CIED 4720	Internship in the Secondary Classroom ³	9
SMED 1012	Inquiry Approaches to Teaching	2
SMED 3013	Knowing and Learning in K-12 Education	3
SMED 4023	Advanced Field Placement in Mathematics and Science ³	3
SMED 4613	Teaching the Nature of Science Through an Inquiry Approach	3
SMED 4713	Teaching and Learning Science in the Secondary School	3
SMED 4723	Senior Seminar in Secondary Mathematics and Science Education ³	3
SPED 3202	Educating Exceptional Learners	2
ASTR 1023	Stars, Galaxies, Universe (N) ^{1, 2}	3
BIOL 1113	Introductory Biology (N)	4
& BIOL 1111	and Introductory Biology Laboratory (LN) ^{1, 2}	
BIOL 3034	General Ecology	4
BIOL 3163	Environmental Biology	3
BIOL 3204	Physiology	4
CHEM 1314	Chemistry I (LN)	4
GEOG 3023	Climatology (N)	3
or GEOG 3033	Meteorology (N)	
GEOL 1014	Geology and Human Affairs (LN)	4
GEOL 2403	Chemistry of Earth Systems	3
PBIO 1404	Plant Biology (LN)	4
Hours Subtotal		70
Total Hours		120

¹ Minimum grade of "C"

² Included in the Major Requirements when calculating Major GPA

³ Full admission to Professional Education required

Other Requirements

- 40 hours of upper-division coursework.
- Required for graduation and recommendation for Standard Certification:
 - a. 2.50 Overall GPA; and
 - b. 2.50 GPA in Major Requirements and specified general education courses
- The student must earn minimum grades of “C” or “P” in each course in the Major Requirements and must earn grades of “P” in all sections of observation courses and student teaching for recommendation for Certification.
- Students must demonstrate proficiency in a foreign language at the novice high level from among those languages identified by the Office of Educational Quality and Accountability. For clarification see OSU academic advisor. This proficiency can be demonstrated by presenting a high school transcript which demonstrates two years of study of a single foreign language with grades of “B” or better. 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.) Students whose primary language is other than English may document proficiency in English as their second language with a score of 550 or more on the Test of English as a Foreign Language. 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.

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; one-fourth 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 2032.