



SECONDARY EDUCATION: EARTH SCIENCE, BS

The following plan is for students matriculating in or before the academic year **2024-2025**

This plan may be adjusted based on individual needs. For official degree requirements visit <https://registrar.okstate.edu/Degree-Requirements>.

Minimum Overall GPA: 2.50

Total Hours: 120

YEAR 1		FALL (15 hours)
	UNIV 1111 First Year Seminar (Fall Only)	
	SMED 1012 Inquiry Approaches to Teaching	
	BIOL 1114 Introductory Biology (LN) <i>or</i> BIOL 1113 Introductory Biology (N) & BIOL 1111 Introductory Biology Laboratory (LN)	
	GEOL 1214 Introduction to Geological Processes (LN) <i>or</i> GEOL 1114 Physical Geology (LN) [MATH 1483 or 1513 or 1613 or 1715 or 1813 or 2103 or 2144]*	
	MATH 2144 Calculus I (A) [MATH 1613 or 1715 or 1813]*	
Students must select at least one Diversity (D) course and one International (I) course to be completed in any part of the degree plan.		
Complete the Application for Admission to Professional Education. http://tinyurl.com/osuprofedapp		
		SPRING (15 hours)
	EDHS 1111 First Year Seminar Supplement (Spring Only)	
	ENGL 1113 Composition I <i>or</i> ENGL 1313 Critical Analysis and Writing I	
	GEOL 1224 Evolution of the Earth (LN)	
	CHEM 1314 Chemistry I (LN) [MATH 1483 or 1513 or 1613 or 1715 or 1813 or 2103 or 2123 or 2144]*	
	ASTR 1023 Stars, Galaxies, Universe (N)	
YEAR 2		FALL (17 hours)
	ENGL 1213 Composition II <i>or</i> ENGL1413 Critical Analysis and Writing II <i>or</i> ENGL 3323 Technical Writing [ENGL 1113]*	
	GEOL 2464 Rocks and Minerals [GEOL 1013 or 1014 or 1114 or 3413 and CHEM 1314 or 1414]*	
	CHEM 1515 Chemistry II (LN) [CHEM 1314 or CHEM 1414]*	
	SPED 3202 Educating Exceptional Learners (D)	
	HIST 1103 Survey of American History <i>or</i> HIST 1483 American History to 1865 <i>or</i> HIST 1493 American History Since 1865	
		SPRING (16 hours)
	PHYS 1114 College Physics (LN) [MATH 1513 or 1613 or 1715 or 1813 or 2103 or 2123 or 2144]* <i>or</i> PHYS 2014 University Physics I (LN) [MATH 2103 or 2123 or 2144]*	
	GEOG 3023 Climatology (N) <i>or</i> GEOG 3033 Meteorology (N)	
	GEOL 3503 Environmental Geology (N) [GEOL 1114]*	
	SMED 3013 – Knowing and Learning in Mathematics and Science [SMED 1012]*	
	POLS 1113 American Government	
YEAR 3		FALL (16 hours)
For CIED 3313 block 6-8 hrs/1day for observation		
	GEOL 3014 Structural Geology [GEOL 1114 and PHYS 1114 or 2014]*	
	GEOL 2773 Introduction to Planetary Geology (N)	
	PHIL 3933 Creation and Evolution (H)	
	CIED 3313 Field Experience in the Secondary Schools	
	Course designated (H) – 3 hours	
Full admission to Professional Education requires: (1) A grade of "C" or better in SMED 3013 and CIED 3313 , (2) minimum overall GPA of 2.50 , and (3) one measure of general education knowledge satisfied by: ACT score of 22 or higher with writing section; or SAT score of 1120 or higher with minimum scores of writing - 5, analysis - 4, reading - 5; or passing PRAXIS test score; or minimum general education 2.75 GPA (30 hours minimum)		

SPRING (17 hours)	
	GEOL 3034 Principles of Stratigraphy and Sedimentology [GEOL 1224 and 2646]*
	SMED 4611 Authentic Research in the Classroom [full admission to Professional Education Program]* (Spring Only)
	SMED 4613 Teaching Science Through Inquiry [full admission to Professional Education Program]* (Spring Only) – OSAT Required
	CIED 4133 Introduction to K-12 English Language Learners
	Course designated (S) – 3 hours
	Elective – 3 hours
NOTE: Students must take the OSAT (Oklahoma Subject Area Test) or PRAXIS prior to student teaching placement. The OSAT is recommended.	
YEAR 4	FALL (15 hours)
	GEOL 4503 Introduction to Oceanography
	SMED 4023 Problem-Based Learning [full admission to Professional Education Program]* (Fall Only)
	SMED 4713 Teaching and Learning in the Secondary Schools [full admission to Professional Education Program]* (Fall Only)
	STAT 2013 Elementary Statistics (A) [MATH 1483 or 1513 or 1613 or 1715 or 1813 or 2103 or 2144]* or STAT 4013 Statistical Methods I (A) [MATH 1513 or 1613 or 1715 or 1813 or 2144]*
	Elective – 3 hours
	SPRING (9 hours)
	CIED 4720 Internship in the Secondary Classroom – 6 hours [full admission to Professional Education Program & OSAT taken]*
	SMED 4723 Senior Seminar in Secondary Mathematics and Science Education [full admission to Professional Education Program]*
File graduation application with enrollment.	
Fingerprint background check; Register for and pass the PPAT; Apply for Oklahoma certification	

*[Prerequisite courses are listed in brackets]

Course Attribute Guide: (A) Analytical and Quantitative Thought; (H) Humanities; (S) Social and Behavioral Sciences; (N) Natural Sciences; (L) Scientific Investigation – Laboratory Science; (D) Diversity; (I) International Dimension

This plan is provided as a courtesy. The official degree requirements sheet is used to determine eligibility for graduation.

Other Requirements

- 40 hours of upper-division coursework.
- Required for graduation and recommendation for Standard Certification:
2.50 Overall GPA;
2.50 GPA in Major Requirements; and
2.50 GPA in Professional Core Requirements.
- The student must earn minimum grades of “C” or “P” in each course in the Major Requirements and Professional Core Requirements and specified courses in General Education; and must earn grades of “P” in all sections of observation courses and student teaching for recommendation for Certification.
- For teacher certification, students must successfully complete OSAT (108), “Earth Science”.

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 2030.

Visit our college’s Career Development office for career & professional development assistance.
106 Willard | careersuccess@okstate.edu | Schedule an appointment via the SLATE system
Check out our Student Success Community on Canvas!