



SECONDARY EDUCATION: EARTH SCIENCE, BS

The following plan is for students matriculating in or before the academic year **2021-2022**

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 (17 hours)
	ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I	
	MATH 2144 Calculus I (A)	
	GEOL 1114 Physical Geology (LN)	
	BIOL 1114 Introductory Biology (LN)	
	SMED 1012 Inquiry Approaches to Teaching	
	EDHS 1112 First Year Seminar (Fall Only)	
Students must select at least one Diversity (D) course and one International (I) course to be completed in any part of the degree plan.		
		SPRING (17 hours)
	ENGL 1213 Composition II or ENGL 1413 Critical Analysis and Writing II or ENGL 3323 Technical Writing [ENGL 1113]*	
	CHEM 1314 Chemistry I (LN)	
	GEOL 1224 Evolution of the Earth (LN)	
	STAT 2013 Elementary Statistics (A) or STAT 4013 Statistical Methods I (A)	
	HIST 1103 Survey of American History or HIST 1483 American History to 1865 or HIST 1493 American History Since 1865	
YEAR 2		FALL (15 hours)
	GEOL 2464 Rocks and Minerals	
	CHEM 1515 Chemistry II (LN)	
	GEOG 3023 Climatology (N) or GEOG 3033 Meteorology (N)	
	Elective or Foreign Language** – 3 hours	
Complete the Application for Admission to Professional Education. http://tinyurl.com/osuprofedapp		
		SPRING (16 hours)
	GEOL 3503 Environmental Geology (N) 3	
	PHYS 1114 College Physics I (LN) or PHYS 2014 University Physics I (LN)	
	STAT 2013 Elementary Statistics (A) or STAT 4013 Statistical Methods I (A)	
	SMED 3013 – Knowing and Learning in Mathematics and Science	
	Elective or Foreign Language** – 3 hours	
Register for the OGET (Oklahoma General Education Exam) www.ceoe.nesinc.com		
YEAR 3		FALL (15 hours)
	GEOL 3014 Structural Geology	
	PHIL 3933 Creation and Evolution (H)	
	POLS 1113 American Government	
	SMED 4013 Classroom Interactions (Fall Only)	
	SPED 3202 Educating Exceptional Learners (D)	

SPRING (16 hours)

SMED 4613 Teaching Science Through Inquiry [full admission to Profesional Education Program]* (Spring Only)
NOTE: Professional Education admission - grade of "C" or better in SMED 3013 and SMED 4013, OGET passed, 2.5 minimum GPA
SMED 4611 Authentic Research in the Classroom
GEOL 3034 Principles of Stratigraphy and Sedimentology
ASTR 1023 Stars, Galaxies, Universe (N)
Course designated (S) – 3 hours
Elective – 2 hours
NOTE: Students must take the OSAT (Oklahoma Subject Area Test) prior to student teaching placement

YEAR 4**FALL (15 hours)**

SMED 4713 Teaching and Learning in the Secondary Schools [full admission to Profesional Education Program]* (Fall Only)
SMED 4023 Problem-Based Learning [full admission to Profesional Education Program]* (Fall Only)
GEOL 2773 Introduction to Planetary Geology (N)
ASTR 1023 Stars, Galaxies, Universe (N)
Course designated (H) – 3 hours

SPRING (9 hours)

CIED 4720 Internship in the Secondary Classroom – 6 hours [[full admission to Profesional Education Program & OSAT taken]*
SMED 4723 Senior Seminar in Secondary Mathematics and Science Education [full admission to Profesional 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]

** 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 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.

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.
- 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 teacher certification, students must successfully complete OSAT (017), "U.S. History/OK History/Government/Economics".
- Students may also take OSAT (018), World History/Geography" and/or OSAT (032) "Psychology/Sociology" to add additional certification areas.

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 2027.