

“W” Number: _____
 Student Name: _____
 Advisor Name: _____

Catalog: 2021-2022 University of Wyoming Catalog
 Program: Secondary Earth Science Education with Concurrent
 Major in Geology, B.A.

Secondary Earth Science Education with Concurrent Major in Geology, B.A.

Graduates of this program earn a Bachelor’s Degree in Earth Science Education and a concurrent major in Geology. It prepares students to teach Earth Science in grades 6-12.

A concurrent major will ensure that graduates are highly qualified teachers and will expand career possibilities.

This program requires a minimum of 120 total hours. All major courses must be passed with a grade of C or better. A minimum GPA of 2.500 in major content courses is required. A minimum of 42 credits must be upper-division.

An initial background check must be completed prior to starting any field or practicum experience. Student fees cover the cost of this initial background check so work with your College of Education advisor for details.

Professional Education Requirements

Course Name	Credits:	Term Taken	Grade	Gen Ed	Recommended Term
Foundations					
EDST2450 - Foundations of Development and Learning	Credits: 3				
ITEC2360 - Teaching with Technology (3 credits required)	Credits: 1-3				
<i>Completion of EDST 2450 with a minimum grade of C or better is a prerequisite for the following courses:</i>					
EDEX2484 - Introduction to Special Education	Credits: 3				
EDST3480 - Diversity & the Politics of Schooling	Credits: 3				
<i>A minimum 2.75 UW cumulative GPA is required for registration in EDST 3100 and EDST 3101. A copy of your valid Wyoming Substitute Teaching Permit must be on file with the Teacher Preparation and Advising Office no later than the first day of class.</i>					
EDST3100 - Teacher as Practitioner	Credits: 3				
EDST3101 - Practicum 3	Credits: 2				
Assessment					
EDST3550 - Educational Assessment	Credits: 2				
Methods (Offered Fall Semester Only)					
EDSE3275 - Subject Matter Specific Methods I: Secondary Science Education (3 credits required)	Credits: 3-6				
EDSE4275 - Subject Matter Specific Methods II: Secondary Science Education (4 credits required)	Credits: 3-6				
Residency (Offered Spring Semester Only)					
EDSE4500 - Residency in Teaching (12 credits required)	Credits: 1-16				
EDSE4550 - Residency Applications and Synthesis	Credits: 3				

Required Geology Courses

Course Name	Credits:	Term Taken	Grade	Gen Ed	Recommended Term
GEOL1100 - Physical Geology	Credits: 4				
OR					
GEOL1500 - Water, Dirt, and Earth’s Environment	Credits: 4				
GEOL2000 - Geochemical Cycles and the Earth System	Credits: 4				

GEOL2010 - Mineralogy	Credits: 3				
GEOL2020 - Introduction to Petrology	Credits: 2				
GEOL2100 - Stratigraphy and Sedimentation	Credits: 4				
GEOL2080 - General Field Geology	Credits: 3				
OR					
GEOL4717 - Field Course in Geology	Credits: 1-8				
GEOL4820 - Capstone	Credits: 3				
(Spring only course, MUST have 26 GEOL hrs completed before enrolling)					

Required Additional Courses

Course Name	Credits:	Term Taken	Grade	Gen Ed	Recommended Term
LIFE1010 - General Biology	Credits: 4				
CHEM1020 - General Chemistry I	Credits: 4				
PHYS1110 - General Physics I	Credits: 4				
STAT2050 - Fundamentals of Statistics	Credits: 4				
MATH1405 - Trigonometry	Credits: 3				
OR					
MATH1450 - Algebra and Trigonometry	Credits: 5				
ASTR1050 - Survey of Astronomy	Credits: 4				

Elective Courses:

Choose 6-8 courses from the following recommended list to obtain the minimum required hours.

Course Name	Credits:	Term Taken	Grade	Gen Ed	Recommended Term
ATSC2000 - Introduction to Meteorology	Credits: 4				
GEOL2050 - Principles of Paleontology	Credits: 3				
GEOL2070 - Introduction to Oceanography	Credits: 4				
GEOL3005 - Principles of Geophysics	Credits: 4				
GEOL3400 - Geologic Hazards: A Historical and Scientific Review	Credits: 4				
GEOL3500 - Global Change: A Geological Perspective (Highly Recommended)	Credits: 4				
GEOL3600 - Earth and Mineral Resources	Credits: 4				
GEOL3650 - Energy for Society: Addressing the Energy Grand Challenge	Credits: 4				
GEOL4444 - Geohydrology	Credits: 4				
GEOL4490 - Geochemistry	Credits: 4				
GEOL4610 - Structural Geology and Tectonics	Credits: 4				
GEOL4835 - Applied/Exploration Geophysics	Credits: 3				
ECON2400 - Economics of the Environment	Credits: 3				
GEOG3010 - Geomorphology of Earth's Dynamic Landscapes	Credits: 3				
POLS4051 - Environmental Politics	Credits: 3				
SOIL4120 - Genesis, Morphology and Classification of Soils	Credits: 4				
ECON4400 - Environmental Economics	Credits: 3				
ECON4410 - Natural Resource Economics	Credits: 3				

Notes:

