

Secondary Earth Sciences Education, BA



with Concurrent[†] Major in Geology

University of Wyoming, 2015-16

The College of Education maintains rigorous admission standards to ensure the quality of preparation for future educators. **New, first time students** who meet the University of Wyoming's standards for admission may declare a major in elementary education, secondary or K-12 education in a specific content area, or education undecided provided they have a minimum ACT composite score of 21 and ACT math score of 21; a lower ACT math score can be replaced by a UW Math Placement Exam (MPE) score of 2 or higher. If electing to pursue education undecided, it is recommended that students decide on their teaching content area no later than the first semester of their sophomore year.

Current UW students wishing to change their major, students seeking re-admission to UW, or those transferring to UW from another institution can learn more about the specific admission requirements for these groups at www.uwyo.edu/ced/admission_requirements.html.

All students must undergo and pass an initial criminal background check prior to full admission to the College of Education. Any costs associated with the background check are the responsibility of the student. A second background check is included as part of the state application process for the Wyoming Substitute Teaching Permit, which is required for admission to Phase II of UW's teacher education program. Criminal background checks are a standard for the profession.

Freshman Fall Semester			Hrs	Min Grade	Notes
		USP First Year Seminar	3	C	FY
		USP US & Wyoming Constitutions	3		V
CHEM	1020	General Chemistry I *	4	C	PN
EDST	2450	Foundations Development & Learning **	3	C	H
MATH	1405	Trigonometry ***	3	C	Q; can substitute MATH 1450 (Algebra & Trig - 5 hrs) ****.
Credit hours subtotal:			16		

Freshman Spring Semester			Hrs	Min Grade	Notes
ENGL	1010	College Composition and Rhetoric	3	C	C1
GEOL	1100	Physical Geology	4	C	Can substitute ENR/GEOL 1500 (Water, Dirt, & Earth's Environment).
LIFE	1010	General Biology	4	C	PN
PHYS	1110	General Physics I	4	C	
Credit hours subtotal:			15		

Sophomore Fall Semester			Hrs	Min Grade	Notes
EDST	2480	Diversity & Politics of Schools	4	C	H; admission to Phase I of the program required. #
GEOL	2000	Geochemical Cycles & Earth Systems	4	C	
GEOL	2010	Mineralogy	3	C	
GEOL	2080	General Field Geology	3	C	Normally offered the first half of the fall semester; can substitute GEOL 4717 (Summer Field Course).
		Elective	4		To be applied to possible add-on endorsement.
Credit hours subtotal:			18		

Sophomore Spring Semester			Hrs	Min Grade	Notes
ASTR	1050	Survey of Astronomy	4	C	
EDEX	2484	Introduction to Special Education	3	C	Admission to Phase I of the program required. #
GEOL	2100	Stratigraphy & Sedimentation	4	C	
GEOL	2020	Petrology	2	C	
ITEC	2360	Teaching with Technology	3	C	Prerequisite: of a 2.5 cumulative UW gpa.
Credit hours subtotal:			16		

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Junior Fall Semester

	Hrs	Min Grade	Notes
EDST 3000 Teacher as Practitioner	6	C	C2; admission to Phase II of the program required. #
Geology elective 1 of 6 *****	3	C	
Geology elective 2 of 6 *****	3	C	
Elective	3		To be applied to possible add-on endorsement.
Credit hours subtotal:	15		

Junior Spring Semester

	Hrs	Min Grade	Notes
EDST 3550 Educational Assessment	2	C	Prerequisite of a 2.75 cumulative UW gpa.
GEOL 4820 Capstone	3	C	Offered spring only.
STAT 2050 Fundamentals of Statistics	4	C	
Geology elective 3 of 6 *****	3	C	
Geology elective 4 of 6 *****	3	C	
Credit hours subtotal:	15		

Senior Fall Semester

	Hrs	Min Grade	Notes
EDSE 3275 Methods I: Secondary Science Education	3	C	Admission to Phase IIIa of the program required. #
EDSE 4275 Methods II: Secondary Science Education	4	C	C3; admission to Phase IIIa of the program required. #
Geology elective 5 of 6 *****	3	C	
Geology elective 6 of 6 *****	3	C	
Elective	3		To be applied to possible add-on endorsement.
Credit hours subtotal:	16		

Senior Spring Semester

	Hrs	Min Grade	Notes
EDEL 4500 Residency in Teaching	15	S	Admission to Phase IIIb of the program required; offered S/U only; fulfills requirement of ESS 4970 (Internship) with successful completion of the course. #
Credit hours subtotal:	15		

TOTAL CREDIT HOURS:

126

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the *University Catalog* and consult with their academic advisor to plan accordingly.

University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

College of Education requirements:

This plan assumes student college readiness. Students should be able to start taking 1000 level courses the first semester of college. • All professional education courses must be completed with a grade of C or higher. Grades of C- or lower will not satisfy this requirement.

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† **Concurrent Majors.** Students may pursue a concurrent major in one or more colleges. Only one degree (BA, BS, etc.) will be awarded from the college of the primary major. All university curricular requirements, including the University Studies Program requirements, must be met only once. Requirements for secondary major/s will be established by the academic departments and may include college requirements, in addition to all major requirements. An academic advisor in each major is required and each adviser must review requirements. The degree will be granted on one date only and only one diploma will be awarded. Both majors will be indicated on the academic transcript and diploma.

The Wyoming Teacher Education Program operates in a series of phases: Phase I, Phase II, Phase IIIa, and Phase IIIb. Continuation in the program in any content area is dependent upon the successful completion of prerequisites for each phase. Specific information about these requirements can be found on the program sheets for each content area that are located at www.uwyo.edu/ted/majors-and-program-sheets.

Secondary Earth Sciences Education with Concurrent Major in Earth Systems Science Program Notes:

- A minimum 2.5 gpa is required in major content. All major content courses must be completed with a grade of C or higher. Grades of C- or lower will not satisfy this requirement.

* Requires MATH ACT ≥ 23 , MATH SAT ≥ 600 , Math Placement Exam ≥ 3 , or concurrent enrollment in MATH 1400, 1405, or 1450. (University standard)

** The prerequisite of a 2.50 cumulative UW gpa is waived for new, incoming freshmen who have declared education as their major.

*** Requires MATH ACT ≥ 25 , MATH SAT ≥ 600 , Math Placement Exam ≥ 4 , or $\geq C$ in MATH 1400. (University Standard)

**** Requires MATH ACT ≥ 23 , MATH SAT ≥ 600 , Math Placement Exam ≥ 3 , or $\geq C$ in MATH 0925. (University Standard)

***** **Geology Electives.** Six (6) courses from the following list must be selected (^ - highly recommended course):

ATSC 2000	Meteorology (4 hrs) OR
GEOG 3450	Weather & Climate (3 hrs)
ECON 2400	Economics of the Environment (3 hrs)
ECON 4400	Environmental Economics (3 hrs)
ECON 4410	Natural Resource Economics (3 hrs)
GEOG 3010	Landforms and Soils (3 hrs)
GEOL 2005	Introduction to Geophysics (4 hrs)
GEOL 2050	Principles of Paleontology (3 hrs)
GEOL 2070	Introduction to Oceanography (4 hrs)
GEOL 3400	Geologic Hazards (4 hrs)
GEOL 3500	Global Change (4 hrs) ^
GEOL 3600	Earth & Mineral Resources (4 hrs)
GEOL 3650	Energy, a Geological Perspective (4 hrs)
GEOL 4444	Geohydrology (4 hrs)
GEOL 4490	Geochemistry (3 hrs)
GEOL 4610	Structural Geology & Tectonics (4 hrs)
GEOL 4835	Applied/Exploration Geophysics (3 hrs)
POLS 4051	Environmental Politics & Administration (3 hrs)
SOIL 4120	Genesis, Morphology, and Classification of Soils (4 hrs)