

Environmental Geology & Geohydrology, BS



University of Wyoming, 2019-20

Freshman Fall Semester				Hrs	Min	Grade	Notes
USP First-Year Seminar				3		C	FY
USP US & Wyoming Constitutions				4			V
CHEM	1020	General Chemistry I *		4		C	PN
MATH	2200	Calculus I **		4		C	Q
Credit hours subtotal:				15			

Freshman Spring Semester				Hrs	Min	Grade	Notes
USP Communication 1				3		C	C1
CHEM	1030	General Chemistry II		4		C	PN
GEOL	1100	Physical Geology		4		C	Can substitute an alternate course; consult with advisor.
MATH	2205	Calculus II		4		C	
Credit hours subtotal:				15			

Sophomore Fall Semester				Hrs	Min	Grade	Notes
USP Human Culture				3			H
GEOL	2000	Geochemical Cycles and the Earth System		4		C	
GEOL	2010	Mineralogy		3		C	
PHYS	1110	General Physics I		4		C	PN; can substitute PHYS 1210 (Engineering Physics I).
Credit hours subtotal:				14			

Sophomore Spring Semester				Hrs	Min	Grade	Notes
USP Communication 2				3		C	C2
GEOL	2100	Stratigraphy and Sedimentation		4		C	
LIFE	1010	General Biology		4		C	Can substitute an alternate course; consult with advisor.
List B Elective ***				2		C	
Credit hours subtotal:				13			

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 Arts and Sciences requirements:

Students must take two "core" courses in addition to the USP requirements: Diversity in the United States (ASD) and Global Awareness (ASG). • No more than 60 hours in the major subject may be used toward the 120 credit hours required for graduation. • At least 30 hours in the major subject must be completed with a grade of C or better (the major may require more).

Environmental Geology & Geohydrology Program Notes:

Students are encouraged, in consultation with their advisor, to design a major that best fits their interests and goals. • Students seeking a BS in Environmental Geology & Geohydrology may not seek a double major in Geology, and vice versa.

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

** Requires MATH ACT \geq 27, MATH SAT \geq 600, Math Placement Exam \geq 5, or \geq C in MATH 1405 or 1450. (University standard)

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Junior Fall Semester				Hrs	Min Grade	Notes
A&S Core Diversity in US				3		ASD
GEOL	2080	General Field Geology		3	C	
List B Electives ***				8	C	
Elective				3		
Credit hours subtotal:				17		

Junior Spring Semester				Hrs	Min Grade	Notes
USP Human Culture				3		H
A&S Core Global Awareness				3		ASG
List B Electives ***				8	C	
Credit hours subtotal:				14		

Senior Fall Semester				Hrs	Min Grade	Notes
GEOL	4444	Geohydrology		4	C	
GEOL	4777	Geochemistry of Natural Waters		3	C	
GEOL	4880	Earth Surface Processes		3	C	
Upper Division Elective				3		
Elective				3		
Credit hours subtotal:				16		

Senior Spring Semester				Hrs	Min Grade	Notes
GEOL	4490	Geochemistry		4	C	
GEOL	4820	Capstone		3	C	C3
Upper Division Electives				9		
Credit hours subtotal:				16		

TOTAL CREDIT HOURS: 120

Environmental Geology and Geohydrology Program Notes con't:

*** **List B Electives.** Eighteen (18) hours are required, with 13 hours at the upper division (3000-level or above). There are courses outside of Geology and Geophysics that may be substituted for courses in this list; please consult with an academic advisor.

- GEOL 2005 Introduction to Geophysics (4 hrs) OR
- GEOL 3005 Principles of Geophysics (4 hrs)
- GEOL 2020 Introduction to Petrology (2 hrs)
- GEOL 2070 Introduction to Oceanography (4 hrs)
- GEOL 3400 Geologic Hazards: A Historical and Scientific Review (4 hrs)
- GEOL 3500 Global Change: A Geological Perspective (4 hrs)
- GEOL 3600 Earth and Mineral Resources (4 hrs)
- GEOL 3650 Energy for Society: Addressing the Energy Grand Challenge (4 hrs)
- GEOL 4113 Geological Remote Sensing (4 hrs)
- GEOL 4525 Environmental Data Analysis (4 hrs)
- GEOL 4610 Structural Geology and Tectonics (4 hrs)
- GEOL 4888 Glaciology (3 hrs)