

# Geology & Earth Science, BA



## University of Wyoming, 2019-20

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
MATH	1405	Trigonometry **		3	C	Q; can substitute MATH 1450 (Algebra and Trigonometry) ***.
Elective				3		
Credit hours subtotal:				<b>16</b>		

Freshman Spring Semester				Hrs	Min Grade	Notes
USP Communication 1				3	C	C1
GEOL	1100	Physical Geology		4	C	Can substitute with alternate course; consult with advisor.
LIFE	1010	General Biology		4	C	PN
PHYS	1110	General Physics I		4	C	Can substitute PHYS 1210 (Engineering Physics I).
Credit hours subtotal:				<b>15</b>		

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	
GEOL	2080	General Field Geology		3	C	
Elective				3		
Credit hours subtotal:				<b>16</b>		

Sophomore Spring Semester				Hrs	Min Grade	Notes
USP Communication 2				3	C	C2
USP Human Culture				3		H
GEOL	2020	Introduction to Petrology		2	C	
GEOL	2100	Stratigraphy and Sedimentation		4	C	
Elective				3		
Credit hours subtotal:				<b>15</b>		

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).

### Geology and Earth Science Program Notes:

• A grade of C or better is required in all geology and allied courses.

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

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

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Junior Fall Semester	Hrs	Min Grade	Notes
A&S Core Diversity in the US	3	ASD	
List B Electives ****	10	C	
Upper Division Elective	3		
Credit hours subtotal:	<b>16</b>		

Junior Spring Semester	Hrs	Min Grade	Notes
List B Elective ****	4	C	
Part C Electives *****	6	C	
Upper Division Electives	6		
Credit hours subtotal:	<b>16</b>		

Senior Fall Semester	Hrs	Min Grade	Notes
A&S Core Global Awareness	3	ASG	
List B Elective ****	4	C	
Part C Elective *****	3	C	
Upper Division Elective	3		
Credit hours subtotal:	<b>13</b>		

Senior Spring Semester	Hrs	Min Grade	Notes
GEOL 4820 Capstone	3	C	C3
List B Elective ****	3	C	
Part C Elective *****	4	C	
Upper Division Elective	3		
Credit hours subtotal:	<b>13</b>		

**TOTAL CREDIT HOURS: 120**

## Geology and Earth Science Program Notes con't:

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

\*\*\*\* **List B Electives.** Six (6) elective courses must be chosen from this list; upper division choices are recommended. Please plan carefully for the prerequisites of some courses.

- ATSC 2000 Introduction to Meteorology (4 hrs) OR
- GEOG 3450 Weather and Climate (3 hrs)
- ECON 2400 Economics of the Environment (3 hrs)
- ECON 4400 Environmental Economics (3 hrs) OR
- ECON 4410 Natural Resource Economics (3 hrs)
- GEOG 3010 Geomorphology of Earth's Dynamic Landscapes (3 hrs)
- GEOL 2005 Introduction to Geophysics (4 hrs) OR
- GEOL 3005 Principles of Geophysics (4 hrs)
- GEOL 2050 Principles of Paleontology (3 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 4444 Geohydrology (4 hrs)
- GEOL 4490 Geochemistry (4 hrs)
- GEOL 4610 Structural Geology and Tectonics (4 hrs)
- GEOL 4835 Applied/Exploration Geophysics (3 hrs)
- POLS 4051 Environmental Politics (3 hrs)
- SOIL 4120 Genesis, Morphology, and Classification of Soils (4 hrs)

\*\*\*\*\* **Part C Electives.** An additional 12 hours of electives, chosen in consultation with an advisor, at least six (6) hours of which must be taken outside of the Department of Geology & Geophysics; upper division choices are recommended.