BS in Environmental Geology (694030) MAP Sheet

Physical and Mathematical Sciences, Geological Sciences

For students entering the degree program during the 2021-2022 curricular year.

University Core and Graduation Requirements

University Core Requirements:

Requirements	#Classes	Hours	Classes
Religion Cornerstones			
Teachings and Doctrine of The Book of Mormon	1	2.0	REL A 275
Jesus Christ and the Everlasting Gospel	1	2.0	REL A 250
Foundations of the Restoration	1	2.0	REL C 225
The Eternal Family	1	2.0	REL C 200
The Individual and Society			
American Heritage	1-2	3-6.0	from approved list
Global and Cultural Awareness	1	3.0	from approved list
Skills			
First Year Writing	1	3.0	from approved list
Advanced Written and Oral Communications	1	3.0	from approved list
Quantitative Reasoning	1	4.0	from approved list
Languages of Learning (Math or Language)	1	4.0	from approved list
Arts, Letters, and Sciences			
Civilization 1	1	3.0	from approved list
Civilization 2	1	3.0	from approved list
Arts	1	3.0	from approved list
Letters	1	3.0	from approved list
Biological Science	1	3.0	from approved list
Physical Science	1	3.0	from approved list
Social Science	1	3.0	from approved list
Core Enrichment: Electives			
Religion Electives	3-4	6.0	from approved list
Open Electives	Variable	Variable	personal choice

Graduation Requirements:

Minimum residence hours required	30.0
Minimum hours needed to graduate	120.0

Suggested Sequence of Courses

FRESHMAN YEAR

1st Semester

WRTG 150	3.0
GEOL 111	4.0
CHEM 105 or CHEM 111	4.0
Religion Cornerstone course	2.0
Total Hours	**13.0**

2nd Semester

American Heritage	3.0
Social Science GE	3.0
CHEM 106 & 107 or CHEM 112	3.0-4.0
MATH 112	4.0
Religion Cornerstone course	2.0
Total Hours	**15.0-16.0**

SOPHOMORE YEAR

3rd Semester

GEOL 210	3.0
GEOL 230	3.0
MATH 113	4.0
Biological Science GE	3.0
Religion Cornerstone course	2.0
Total Hours	**15.0**

4th Semester

GEOL 370	3.0
GEOL 375	3.0
PHSCS 105	3.0
Civilization 1 GE	3.0
Religion Cornerstone course	2.0
Total Hours	**14.0**

JUNIOR YEAR

5th Semester

WRTG 316	3.0
GEOL 491R	0.5
GEOL 435	3.0
PHSCS 106	3.0
Required Environmental Elect 1 (Req 3)	3.0
Religion Cornerstone course	2.0
Total Hours	**14.5**

6th Semester

GEOL 445	3.0
GEOL 491R	0.5
Required Environmental Elect 2 (Req 3)	3.0
STAT 121	3.0
Civilization II GE	3.0
Religion Cornerstone course	2.0
Total Hours	**14.5**

Spring/Summer

GEOL 420	2.0
GEOL 421	2.0
GEOL 422	2.0
Total Hours	

SENIOR YEAR

7th Semester

Required Environmental Elect 3 (Req 3)	3.0
Required Environmental Elect 4 (Req 3)	3.0
GEOL 491R	0.5
Global and Cultural Awareness GE	3.0
Letters GE	3.0
Religion Cornerstone course	2.0
Total Hours	**14.5**

8th Semester

GEOL 535	3.0
Required Environmental Elect 5 (Req 3)	3.0
GEOL 491R	0.5
Arts GE	3.0
General Elect	4.0
Total Hours	**13.5**

BS in Environmental Geology (694030)

2021-2022 Program Requirements (69 - 76 Credit Hours)

REQUIREMENT 1 Complete 11 courses

GEOL 111 - Physical Geology	4.0
GEOL 210 - Field Studies	3.0
GEOL 230 - Geological Communications	3.0
GEOL 370 - Sedimentology and Stratigraphy	3.0
GEOL 375 - Structural Geology	3.0
GEOL 420 - Geological Field Methods	2.0
GEOL 421 - Geological Mapping	2.0
GEOL 422 - Geologic Writing	2.0
GEOL 435 - Introduction to Groundwater	3.0
GEOL 445 - Geochemistry	3.0
GEOL 535 - Contaminant Hydrogeology	3.0

REQUIREMENT 2 Complete 2.0 hours from the following course(s)

GEOL 491R - Geology Seminar	0.5

You may take this course up to 4 times.

REQUIREMENT 3 Complete 5 courses

NOTE: PWS LECTURES AND LABS (PWS 282 & 283; PWS 305 & 306; PWS 365 & 366) REQUIRE SEPARATE REGISTRATION AND CAN BE TAKEN SEPARATELY.

CE EN 341 - (Not currently offered)	
CE EN 414 - (Not currently offered)	
CE EN 431 - (Not currently offered)	
CE EN 451 - (Not currently offered)	
CE EN 514 - (Not currently offered)	
CE EN 531 - (Not currently offered)	
CE EN 540 - (Not currently offered)	
CE EN 547 - (Not currently offered)	
CE EN 551 - (Not currently offered)	
CE EN 555 - (Not currently offered)	
GEOG 313 - Remote Sensing 1	3.0
GEOG 413 - Remote Sensing 2	3.0
GEOL 351 - Mineralogy	4.0
GEOL 352 - Petrology	3.0
GEOL 405 - Applied Mathematics in the Geological Sciences	3.0
GEOL 411 - Geomorphology and Remote Sensing	3.0
PWS 282 - Soil Science	3.0
PWS 283 - Soil Science Laboratory	1.0
PWS 305 - Watershed Ecology	3.0
PWS 306 - Watershed Ecology Laboratory	1.0
PWS 365 - (Not currently offered)	
PWS 366 - (Not currently offered)	
PWS 375 - (Not currently offered)	

REQUIREMENT 4 Complete 1 option

OPTION 4.1 Complete 3 courses

CHEM 105 - General College Chemistry 1 with Lab (Integrated)	4.0
CHEM 106 - General College Chemistry 2	3.0
CHEM 107 - General College Chemistry Laboratory	1.0

OPTION 4.2 Complete 2 courses

CHEM 111 - Principles of Chemistry 1	4.0
CHEM 112 - Principles of Chemistry 2	3.0

REQUIREMENT 5 Complete 6 courses

MATH 112 - Calculus 1	4.0
MATH 113 - Calculus 2	4.0
PHSCS 105 - General Physics 1	3.0
PHSCS 106 - General Physics 2	3.0
STAT 121 - Principles of Statistics	3.0
WRTG 316 - Technical Communication	3.0

REQUIREMENT 6

Complete a practice version of the American State Board of Geologists fundamentals of geology exam.

THE DISCIPLINE

Environmental geology deals with the protection and management of groundwater, surface water, and soil systems. Over 22% of the water supply in the United States comes from groundwater. As population grows and climate change proceeds, water resources will be under increased pressure. No less important than water is the understanding of the Critical Zone, the shallow soils with which surface and ground waters interact and upon which most life depends. Study of the Critical Zone is, to a large degree, an undertaking of environmental geology. Understanding the science of environmental geology will enhance students' sense of stewardship for the Earth.

CAREER OPPORTUNITIES

Environmental geology graduates are prepared for employment in industry, environmental consulting firms, government, education, or academia. The program provides training and skills for employment with a bachelor's degree or for continued education in graduate programs to study environmental geology, business, or law. Jobs in geosciences and hydrology are expected to continue to grow over the coming decade. Most environmental geology graduates are employed in the environmental industry, state, or federal governments.

MAP DISCLAIMER

While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.