

BS in Environmental Geology (694030) MAP Sheet

Physical and Mathematical Sciences, Geological Sciences

For students entering the degree program during the 2022-2023 curricular year.



University Core and Graduation Requirements				Suggested Sequence of Courses		
University Core Requirements:				FRESHMAN YEAR		
Requirements	#Classes	Hours	Classes			
Religion Cornerstones				1st Semester		
Teachings and Doctrine of The Book of Mormon	1	2.0	REL A 275	WRTG 150	3.0	
Jesus Christ and the Everlasting Gospel	1	2.0	REL A 250	GEOL 111	4.0	
Foundations of the Restoration	1	2.0	REL C 225	CHEM 105 or CHEM 111	4.0	
The Eternal Family	1	2.0	REL C 200	Religion Cornerstone course	2.0	
The Individual and Society				Total Hours	13.0	
American Heritage	1-2	3-6.0	from approved list	2nd Semester		
Global and Cultural Awareness	1	3.0	from approved list	American Heritage	3.0	
Skills				Social Science GE	3.0	
First Year Writing	1	3.0	from approved list	CHEM 106 & 107 or CHEM 112	3.0-4.0	
Advanced Written and Oral Communications	1	3.0	from approved list	MATH 112	4.0	
Quantitative Reasoning	1	4.0	from approved list	Religion Cornerstone course	2.0	
Languages of Learning (Math or Language)	1	4.0	from approved list	Total Hours	15.0-16.0	
Arts, Letters, and Sciences				SOPHOMORE YEAR		
Civilization 1	1	3.0	from approved list	3rd Semester		
Civilization 2	1	3.0	from approved list	GEOL 210	3.0	
Arts	1	3.0	from approved list	GEOL 230	3.0	
Letters	1	3.0	from approved list	MATH 113	4.0	
Biological Science	1	3.0	from approved list	Biological Science GE	3.0	
Physical Science	1	3.0	from approved list	Religion Cornerstone course	2.0	
Social Science	1	3.0	from approved list	Total Hours	15.0	
Core Enrichment: Electives				4th Semester		
Religion Electives	3-4	6.0	from approved list	GEOL 370	3.0	
Open Electives	Variable	Variable	personal choice	GEOL 375	3.0	
Graduation Requirements:				SENIOR YEAR		
Minimum residence hours required		30.0		7th Semester		
Minimum hours needed to graduate		120.0		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)
2022-2023 Program Requirements (69 - 76 Credit Hours)

<p>REQUIREMENT 1 Complete 12 courses</p> <p>GEOL 111 - Physical Geology 4.0</p> <p>GEOL 210 - Field Studies 3.0</p> <p>GEOL 230 - Earth Data Visualization 3.0</p> <p>GEOL 370 - Sedimentology and Stratigraphy 3.0</p> <p>GEOL 375 - Structural Geology 3.0</p> <p>GEOL 420 - Geological Field Methods 2.0</p> <p>GEOL 421 - Geological Mapping 2.0</p> <p>GEOL 422 - Geologic Writing 2.0</p> <p>GEOL 435 - Groundwater 3.0</p> <p>GEOL 445 - Geochemistry 3.0</p> <p>GEOL 535 - Contaminant Hydrogeology 3.0</p> <p>GEOL 550 - Environmental Soil Chemistry 3.0</p> <p>REQUIREMENT 2 Complete 2.0 hours from the following course(s)</p> <p>GEOL 491R - Geology Seminar 0.5 <i>You may take this course up to 4 times.</i></p> <p>REQUIREMENT 3 Complete 4 courses</p> <p>NOTE: PWS LECTURES AND LABS (PWS 282 & 283; PWS 305 & 306; PWS 365 & 366) REQUIRE SEPARATE REGISTRATION AND CAN BE TAKEN SEPARATELY.</p> <p>CE 341 - Elementary Soil Mechanics 3.0</p> <p>CE 414 - Engineering Applications of GIS 3.0</p> <p>CE 431 - Hydrology 3.0</p> <p>CE 451 - Environmental Engineering Processes 3.0</p> <p>CE 514 - Geospatial Environmental Engineering 3.0</p> <p>CE 531 - Principles of Hydrologic Modeling 3.0</p> <p>CE 540 - Geo-Environmental Engineering 3.0</p> <p>CE 547 - Groundwater Modeling 3.0</p> <p>CE 551 - Water Treatment Facilities Design 3.0</p> <p>CE 555 - Environmental Chemistry 3.0</p> <p>GEOG 313 - Remote Sensing 1 3.0</p> <p>GEOG 413 - Remote Sensing 2 3.0</p> <p>GEOL 330 - Engineering Geology 3.0</p> <p>GEOL 351 - Mineralogy 4.0</p> <p>GEOL 352 - Petrology 3.0</p> <p>GEOL 405 - Applied Mathematics in the Geological Sciences 3.0</p> <p>GEOL 411 - Geomorphology and Remote Sensing 3.0</p> <p>PWS 282 - Soil Science 3.0</p> <p>PWS 283 - Soil Science Laboratory 1.0</p> <p>PWS 305 - Watershed Ecology 3.0</p>	<p>PWS 306 - Watershed Ecology Laboratory 1.0</p> <p>PWS 365 - Biogeochemistry 3.0</p> <p>PWS 366 - Biogeochemistry Laboratory 1.0</p> <p>PWS 375 - Policies and Laws of Aquatic Systems 3.0</p> <p>REQUIREMENT 4 Complete 1 option</p> <p>OPTION 4.1 Complete 3 courses</p> <p>CHEM 105 - General College Chemistry 1 with Lab (Integrated) 4.0</p> <p>CHEM 106 - General College Chemistry 2 3.0</p> <p>CHEM 107 - General College Chemistry Laboratory 1.0</p> <p>OPTION 4.2 Complete 2 courses</p> <p>CHEM 111 - Principles of Chemistry 1 4.0</p> <p>CHEM 112 - Principles of Chemistry 2 3.0</p> <p>REQUIREMENT 5 Complete 6 courses</p> <p>MATH 112 - Calculus 1 4.0</p> <p>MATH 113 - Calculus 2 4.0</p> <p>PHSCS 105 - General Physics 1 3.0</p> <p>PHSCS 106 - General Physics 2 3.0</p> <p>STAT 121 - Principles of Statistics 3.0</p> <p>WRTG 316 - Technical Communication 3.0</p> <p>REQUIREMENT 6</p> <p>Complete a practice version of the American State Board of Geologists fundamentals of geology exam.</p> <p>THE DISCIPLINE</p> <p>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.</p> <p>CAREER OPPORTUNITIES</p> <p>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</p>	<p>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.</p> <p>MAP DISCLAIMER</p> <p>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.</p>
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