



www.geology.usu.edu

Geology Major

General Geology: Applied Environmental Geoscience – BS

General Education Requirements

Communications Literacy (CL1 and CL2) 6 credits
 Quantitative Literacy (QL) 3-4 credits
 Quantitative Intensive (QI) 1 course
 Breadth American Institutions (BAI) 3 credits
 Breadth Creative Arts (BCA) 3 credits
 Breadth Humanities (BHU) 3 credits
 Breadth Physical Sciences (BPS) 3 credits
 Breadth Life Sciences (BLS) 3 credits
 Breadth Social Sciences (BSS) 3 credits
 Depth Courses (DHA/DSC/DSS) 4 credits outside major [at least 2 courses]

UtahStateUniversity™



Geology Requirements

<u>Course</u>	<u>Credits</u>	<u>Title</u>
GEO 1110	3	Physical Geology (BPS)
GEO 1115	1	Physical Geology Laboratory
GEO 3200	4	Earth Through Time (DSC)
GEO 3500	4	Minerals and Rocks
GEO 3550	4	Sedimentation and Stratigraphy
GEO 3600	4	Geomorphology
GEO 3700	4	Structural Geology
GEO 4700	3	Geologic Field Methods (CI)
GEO 5200	5	Geology Field Camp
GEO 5600	3	Geochemistry
PHYS 2210	4	Physics for Scientists and Engineers I
PHYS 2215	1	Physics for Scientists and Engineers Lab I
CHEM 1210	4	Principles of Chemistry I
CHEM 1215	1	Principles of Chemistry Lab I
CHEM 1220	4	Principles of Chemistry II
CHEM 1225	1	Principles of Chemistry Lab II
BIOL 1610	4	Biology I
BIOL 1620	4	Biology II (BLS)
GEOG 1800	3	Introduction to Geographic Information Sciences [GIS]
GEO 5630	3	Geologic Image Analysis
OR		
WATS 4930	3	Advanced GIS and Spatial Analysis
OR		
WATS 5003	4	Remote Sensing of Land Surfaces

OR

WILD 5750	3	Applied Remote Sensing
PSC 3000	4	Fundamentals of Soil Science
and		
PSC 5130	4	Soil Genesis, Morphology, and Classification

OR

WATS 3700	3	Fundamentals of Watershed Science (CI)
and		
WATS 4490	4	Small Watershed Hydrology (QI)
BIOL 2220	3	General Ecology

OR

CHEM 3650	3	Environmental Chemistry (DSC)
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OR

PSC 3820	3	Climate and Climate Change (DSC/QI)
MATH 1210	4	Calculus I (QL)
STAT 3000	3	Statistics for Scientists (QL)

Students must additionally complete 12 credits from any geology courses numbered 4800 or above (except GEO 5200), including 1 of the following

GEO 5620	3	Global Geophysics (QI)
OR		
GEO 5640	3	Introduction to Seismology
OR		
GEO 5660	4	Applied Geophysics
OR		
GEO 5690	3	Geodynamics