

Geology, B.S.

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Requirements

Geology is the study of the Earth, including its water and atmosphere, and its relationship to humans and other living things. Geology applies chemistry, physics, mathematics and biology to answer questions about the Earth. Geologists conduct studies in the field, in the laboratory using advanced analytical equipment, and in the office using specialized computer software. Geology is particularly focused on the Earth's history, resources, hazards and resources including groundwater. Sub-disciplines of geology include economic geology, geochemistry, geologic hazards, geomorphology, hydrogeology, petrology, and tectonics. A B.S. in geology is preparation for a variety of career paths, including hazard assessment with government or private companies, ground and surface water monitoring and development, oil and gas, mining, and many other careers that draw on a background in the natural earth, including law, public policy, and public health; the program is also excellent preparation for graduate school.

Total Program Credits: 120

General Education Requirements:		37 Credits
	ENGL 1010 Introduction to Academic Writing CC	3
or	ENGL 1005 Literacies and Composition Across Context CC (5)	
	ENGL 2010 Intermediate Academic Writing CC	3
	MATH 1210 Calculus I QL	4
Complete one of the following:		3
	HIST 2700 US History to 1877 AS (3)	
and	HIST 2710 US History since 1877 AS (3)	
	HIST 1700 American Civilization AS (3)	
	HIST 1740 US Economic History AS (3)	
	POLS 1000 American Heritage SS (3)	
	POLS 1100 American National Government AS (3)	
Complete the following:		
	PHIL 205G Ethics and Values IH	3
	HLTH 1100 Personal Health and Wellness TE (2)	
or	EXSC 1097 Fitness for Life TE	2
Distribution Courses		
	BIOL 1010 General Biology BB	3
	GEO 1010 Introduction to Geology PP	3
or	GEO 1030 Natural Disasters and the Environment PP	
or	GEO 1040 The Dinosaurian World PP	
or	GEO 1050 Geology of National Parks PP	
	CHEM 1210 Principles of Chemistry I PP	4
	Humanities Distribution	3
	Fine Arts Distribution	3
	Social/Behavioral Science	3
Discipline Core Requirements:		83 Credits
	CHEM 1215 Principles of Chemistry I Laboratory	1
	CHEM 1220 Principles of Chemistry II PP	4

	CHEM 1225 Principles of Chemistry II Laboratory	1
	GEOG 3600 Introduction to Geographic Information Systems	4
	GEO 1015 Introduction to Geology Laboratory	1
	GEO 1220 Historical Geology	3
	GEO 1225 Historical Geology Laboratory	1
	GEO 2500 Introduction to Field Geology	3
	GEO 3080 Earth Materials WE	3
and	GEO 3085 Earth Materials Laboratory	1
	GEO 3200 Geologic Hazards	4
and	GEO 3205 Geologic Hazards Laboratory (either hazards or geomorphology can be taken as core requirement)	
or	GEO 3500 Geomorphology WE	
or	GEOG 3500 Geomorphology WE	
	GEO 3700 Structure and Tectonics	4
	GEO 4500 Sedimentary Geology WE	4
	GEO 4790 Hydrogeology (Recommended)	4
or	ENVT 3790 Applied Hydrology WE	
	GEO 4600 Field Experience	6
	MATH 1220 Calculus II	5
	STAT 2040 Principles of Statistics QL	4
	GEO 480R Earth Science Seminar (Must be taken twice)	1
	PHYS 2210 Physics for Scientists and Engineers I PP	4
	PHYS 2220 Physics for Scientists and Engineers II PP	4
Complete 22 credits from the following list (at least 12 credits must be Upper Division)		22
	BIOL 3800 Conservation Biology (3)	
	ENVT 2730 Introduction to Soils (4)	
	ENVT 3280 Environmental Law (3)	
	ENVT 3790 Applied Hydrology WE (3)	
	GEO 202R Science Excursion (1)	
	GEO 204R Natural History Excursion BB (3)	
	GEO 3000 Environmental Geochemistry (3)	
	GEO 3100 Isotope Geochemistry (3)	
	GEO 3105 Isotope Geochemistry Laboratory (1)	
	GEO 3200 Geologic Hazards (4)	
and	GEO 3205 Geologic Hazards Laboratory (1) (if not taken as core requirement)	
	GEO 3500 Geomorphology WE (4) (if not taken as core requirement)	
or	GEOG 3500 Geomorphology WE (3)	
	GEO 4080 Petrology (3)	
and	GEO 4085 Petrology Laboratory(1)	
	GEO 4510 Paleontology (4)	
	GEO 4790 Hydrogeology (3)	
	GEO 482R Geologic Environmental Internship (1)	

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GEO 489R	Student Research (1-4)	
GEOG 3400	Environmental Remote Sensing (3)	
GEOG 3650	Advanced Geographic Information Systems (4)	
GEOG 3700	Wetland Studies (3)	
GEOG 3705	Wetland Studies Laboratory (3)	
GEOG 4100	Geospatial Field Methods (3)	
METO 1010	Introduction to Meteorology PP (3)	
METO 1060	Fundamentals of Weather Forecasting PP (3)	
METO 3100	Climate and the Earth System (3)	
PHYS 2215	Physics for Scientists and Engineers I Lab (1)	
PHYS 2225	Physics for Scientists and Engineers II Lab (1)	
Or other department approved electives		

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 (C) or above.
3. Grade of C- or better in every ENVT, GEO, GEOG, and METO course.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.
7. Successful completion of at least two Writing Enriched (WE) courses.

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Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Semester 1	Course Title	Credit Hours
ENGL 1010	Introduction to Academic Writing CC	3
GEO 1010	Introduction to Geology PP	3
GEO 1015	Introduction to Geology Laboratory	1
American Institutions		3
MATH 1210	Calculus I QL	4
Semester total:		14
Semester 2	Course Title	Credit Hours
GEO 1220	Historical Geology	3
GEO 1225	Historical Geology Laboratory	1
ENGL 2010	Intermediate Academic Writing CC	3
Fine Art		3
MATH 1220	Calculus II	4
Semester total:		14
Semester 3	Course Title	Credit Hours
CHEM 1210	Principles of Chemistry I PP	4
CHEM 1215	Principles of Chemistry I Laboratory	1
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
Geology Elective		3
BIOL 1010	General Biology BB	3
PHIL 205G	Ethics and Values IH GI	3
Semester total:		16
Semester 4	Course Title	Credit Hours
GEO 2500	Introduction to Field Geology	3
CHEM 1220	Principles of Chemistry II PP	4
CHEM 1225	Principles of Chemistry II Laboratory	1
Geology Elective		3
PHYS 2210	Physics for Scientists and Engineers I PP	4
Semester total:		15
Semester 5	Course Title	Credit Hours
PHYS 2220	Physics for Scientists and Engineers II PP	4
GEO 3080 and 3085	Earth Materials WE and Earth Materials Laboratory	4
GEO 3200 and GEO 3205 or GEO 3500 or GEO 3500	Geologic Hazards and Geologic Hazards Laboratory or Geomorphology or Geomorphology	4
Geology Elective		4
Semester total:		16

Semester 6	Course Title	Credit Hours
STAT 2040	Principles of Statistics QL	4
GEOG 3600	Introduction to Geographic Information Systems	4
GEO 4790	Hydrogeology	4
GEO 480R	Earth Science Seminar	0.5
Humanities		3
Semester total:		15.5
Semester 7	Course Title	Credit Hours
GEO 3700	Structure and Tectonics	4
Geology Elective		4
Geology Elective		3
Geology Elective		3
Semester total:		14
Semester 8	Course Title	Credit Hours
GEO 4500	Sedimentary Geology WE	4
Geology Elective		1
Social/Behavioral Science Course		3
GEO 480R	Earth Science Seminar	0.5
GEO 4600	Field Experience	6
Semester total:		15.5
Degree total:		120