

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	3
or	ENGL 1005 Literacies and Composition Across Context (5)	
	ENGL 2010 Intermediate Writing Academic Writing and Research	3
	MATH 1050 College Algebra	4
or	MATH 1055 College Algebra with Preliminaries (5)	
Complete one of the following:		3
	HIST 2700 US History to 1877 (3)	
and	HIST 2710 US History since 1877 (3)	
	HIST 1700 American Civilization (3)	
	HIST 1740 US Economic History (3)	
	POLS 1000 American Heritage (3)	
	POLS 1100 American National Government (3)	
Complete the following:		
	PHIL 205G Ethics and Values	3
	HLTH 1100 Personal Health and Wellness (2)	
or	PES 1097 Fitness for Life	2
Distribution Courses		
	BIOL 1010 General Biology	3
	GEO 1010 Introduction to Geology	3
	CHEM 1210 Principles of Chemistry I	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	4
	CHEM 1225 Principles of Chemistry II Laboratory	1
	ENVT 3790 Hydrology I WE	4

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 3080	Earth Materials WE	3
GEO 3085	Earth Materials Laboratory	1
GEO 3200	Geologic Hazards	3
GEO 3205	Geologic Hazards Geologic Hazards Laboratory	1
GEO 3700	Structure and Tectonics	4
GEO 4500	Sedimentary Geology	4
GEO 4600	Field Experience	6
MATH 1210	Calculus I	5
MATH 1220	Calculus II	5
STAT 2040	Principles of Statistics	4
GEO 480R	Earth Science Seminar (Must be taken twice)	1
PHYS 2210	Physics for Scientists and Engineers I	4
PHYS 2220	Physics for Scientists and Engineers II	4
Complete 19 credits from the following list (at least 12 credits must be Upper Division)		19
BIOL 3800	Conservation Biology (3)	
ENVT 2730	Introduction to Soils (4)	
ENVT 3280	Environmental Law (3)	
ENVT 4790	Hydrology II (4)	
GEO 202R	Science Excursion (1)	
GEO 3000	Environmental Geochemistry (3)	
GEO 3100	Isotope Geochemistry (3)	
GEO 3105	Isotope Geochemistry Laboratory (1)	
GEO 3500	Geomorphology WE (4)	
GEO 4080	Petrology (3)	
GEO 4085	Petrology Laboratory(1)	
GEO 4510	Paleontology (4)	
GEO 482R	Geologic/Environmental Internship (1)	
GEO 489R	Student Research (1)	
GEOG 3400	Environmental Remote Sensing (3)	
GEOG 3650	Advanced Geographic Information Systems (4)	
GEOG 3700	Wetland Studies (3)	
GEOG 4100	Geospatial Field Methods (3)	
METO 1010	Introduction to Meteorology (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 advisor-approved electives		

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.

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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.

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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](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
<i>MATH 1050</i> or <i>MATH 1055</i>	College Algebra or College Algebra with Preliminaries	4
<i>ENGL 1010</i>	Introduction to Academic Writing	3
<i>GEO 1010</i>	Introduction to Geology	3
<i>GEO 1015</i>	Introduction to Geology Lab	1
You Choose	American Institutions	3
	Semester total:	14
Semester 2	Course Title	Credit Hours
<i>MATH 1060</i>	Trigonometry	3
<i>GEO 1220</i>	Historical Geology	3
<i>GEO 1225</i>	Historical Geology Lab	1
ENGL 2010	Intermediate Writing Academic Writing and Research	3
BIOL 1010	General Biology	3
You Choose	Fine Art	3
	Semester total:	16
Semester 3	Course Title	Credit Hours
<i>MATH 1210</i>	Calculus I	5
CHEM 1210	Principles of Chemistry I	4
<i>CHEM 1215</i>	Principles of Chemistry I Lab	1
HLTH 1100 or	Personal Health and Wellness or	2
PES 1097	Fitness for Life	
You Choose	Geology Elective	3
	Semester total:	15
Semester 4	Course Title	Credit Hours
<i>MATH 1220</i>	Calculus II	5
CHEM 1220	Principles of Chemistry II	4
CHEM 1225	Principles of Chemistry II Lab	1
You Choose	Geology Elective	3
PHIL 205G	Ethics and Values (And Global Intercultural)	3
	Semester total:	16

Semester 5	Course Title	Credit Hours
<i>GEO 3080</i> * and <i>3085</i> *	Earth Materials WE and Earth Materials Laboratory	4
GEO 3200	Geologic Hazards	3
GEO 3205	Geologic Hazards Laboratory	1
<i>PHYS 2210</i> *	Physics for Scientists and Engineers I	4
<i>STAT 2040</i>	Principles of Statistics	4
	Semester total:	16
Note: *Co-requisites are required to be taken. Please see the advisor.		
Semester 6	Course Title	Credit Hours
<i>GEO 3700</i>	Structure and Tectonics	4
GEOG 3600	Introduction to Geographic Information Systems	4
<i>PHYS 2220</i> *	Physics for Scientists and Engineers II	4
GEO 480R	Earth Science Seminar	0.5
You Choose	Humanities	3
	Semester total:	15.5
Note: *Co-requisites are required to be taken. Please see the advisor.		
Semester 7	Course Title	Credit Hours
ENVT 3790	Hydrology I	4
You Choose	Geology Elective	3
You Choose	Geology Elective	3
You Choose	Geology Elective	3
	Semester total:	13
Semester 8	Course Title	Credit Hours
<i>GEO 4500</i>	Sedimentary Geology	4
You Choose	Geology Elective	1
You Choose	Social/Behavioral Science Course	3
GEO 480R	Earth Science Seminar	0.5
	Semester total:	8.5
Summer Semester	Course Title	Credit Hours
GEO 4600	Field Experience	6
	Degree total:	120