



DEPARTMENT OF GEOLOGY & GEOPHYSICS

COLLEGE OF MINES AND EARTH SCIENCES | THE UNIVERSITY OF UTAH

COURSE REQUIREMENTS BACHELOR OF SCIENCE IN GEOSCIENCE-ENVIRONMENTAL GEOSCIENCE

Required Courses

Complete all of the following:

Geoscience Core:	<u>Credits</u>	<u>Semester</u>	<u>Prerequisites</u>
• GEO 1100 Evolving Earth	3	Fall/Spring	None
• GEO 2100 Reactive Earth	3	Fall/Spring	CHEM 1210, GEO 1100
• GEO 2500 Wasatch in the Field	3	Fall	None
• GEO 3100 Dynamic Earth	3	Fall/Spring	PHYS 2210, GEO 2100
• GEO 4500 Field Methods	3	Spring	GEO 2500, 3100
Environmental Capstone:			
• GEO 4510 Field Geology (Pt. 1)	2	Summer	GEO 4500
• GEO 4520 Field Geology (Pt. 2)	2	Summer	GEO 4510

Electives:

- Complete at least 12 credits from the following types of courses:
3000-5999 in GEO, MET E, ATMOS, MG EN, BIOL, MATH, CHEM, PHYS,
BIOEN, CH EN, CS, CVEEN, ECE, ME EN, MSE

Emphasis Required Courses

Complete all of the following:

General Environmental:

Earn at least 6 credits from the following:

• ATMOS 3100 Atmos Chem	3	Spring Odd Years	CHEM 1210, MATH 1220
• BIOL 1610 Fund Prin of Biol I	3		MATH 1010
• BIOL 1620 Fund Prin of Biol II	3		MATH 1010
• BIOL 3410 Eco & Evol	3	Spring	BIOL 1620, MATH 1210
• GEO 3180 Paleobiology	3	Spring	None
• GEO 3300 The Water Planet	3	Spring	None
• GEO 3800 The Oceans	3	Fall	GEO 1100
• GEOG 3210 Global Climate Ch	3	Spring	None

Carbon Cycle:

Complete at least 1 of the following:

- GEO 5675 Paleoclimate Recon 3 None
- GEO 5680 The Carbon Cycle 3 None

Physical Hydrology:

Complete at least 1 of the following:

- GEO 5350 Groundwater 3 Fall MATH 1220
- GEO 5650 Hydro & Water Res 3 None

Chemical Hydrology:

Complete at least 1 of the following:

- GEO 5390 Solute Trans & Sub Re 3 Spring GEO 5350
- GEO 5660 Geochemistry 3 Fall CHEM 1220
- GEO 5370 Contaminant Part. 3 CHEM 1210, 1220

Geoscience Electives:

Earn at least 6 credits from GEO 5000-5999

Allied Science

Complete all of the following:

- CHEM 1210 General Chemistry I 4 All MATH 1050
- CHEM 1215 Gen Chem I Lab 1 All CHEM 1210 coreq
- CHEM 1220 General Chemistry II 4 All CHEM 1210
- CHEM 1225 Gen Chem II Lab 1 All CHEM 1215
- MATH 1210 Calculus I 4 All MATH 1050 & 1060 or MATH 1080
- MATH 1220 Calculus II 4 All MATH 1210
- PHYS 2210 Physics for Sci&Eng I 4 All MATH 1210
- PHYS 2220 Physics for Sci&Eng II 4 All PHYS 2210, MATH 1220

Complete at least 1 of the following:

- MET E 3070 Stat Methods in ESE 3 Fall MATH 1050
- MATH 3070 Applied Statistics I 4 All MATH 1220

Other Requirements

University of Utah General Education Requirements

The University of Utah requires a total of 122 college level credits to complete a Bachelor's degree. Additional elective courses may need to be completed to fulfill the total of 122 credits. Check with your academic advisor with any questions or concerns.

Academic Advisor

Michelle Tuitupou

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383 FASB



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SAMPLE SCHEDULE BACHELOR OF SCIENCE IN GEOSCIENCE-ENVIRONMENTAL GEOSCIENCE

<u>Fall Semester</u>		<u>Spring Semester</u>	
MATH 1210	4	MATH 1220	4
CHEM 1210	4	CHEM 1220	4
CHEM 1215	1	CHEM 1225	1
GEO 1100	3	GEO 2100	3
GEO 2500	<u>3</u>	WRTG 2010 (WR)	<u>3</u>
Total:	15	Total:	15

<u>Fall Semester</u>		<u>Spring Semester</u>	
PHYS 2210	4	PHYS 2220	4
GEO 3100 (QI)	3	General Environmental ²	3
MET E 3070 (AI)	3	Physical Hydrology ³ (BF)	3
	<u>3</u>		<u>3</u>
Total:	13	Total:	13

<u>Fall Semester</u>		<u>Spring Semester</u>	
General Environmental ²	3	Chemical Hydro (QI) ⁵	3
Carbon cycle ⁴	3	Elective ¹	3
Elective ¹ (BF)	3	Geoscience Elective ⁶ (FF)	3
	<u>3</u>	(HF)	<u>3</u>
Total:	12	Total	15

<u>Fall Semester</u>		<u>Spring Semester</u>	
Elective ¹	3	GEO 4500 (CW)	3
Geoscience Elective ⁶ (FF)	3	Elective ¹ (IR)	3
(HF)	<u>3</u>	(DV)	<u>3</u>
Total:	12	Total:	12

<u>Summer</u>	
GEO 4510	2
GEO 4520	<u>2</u>
Total:	4

¹Elective: Completed at least 12 credits from the following types of courses: 3000 - 5999 in GEO, MET E, ATMOS, MG EN , BIOL, MATH, CHEM, PHYS, BIOEN, CH EN, CS, CVEEN, ECE, ME EN, MSE

²General Environmental: Earned at least 6 credits from the following: [GEO 3180](#) - Paleobiology (3), [BIOL 3410](#)- Ecology & Evolution (3) [GEO 3300](#) - The Water Planet (3), [GEO 3800](#) - The Oceans (3), [ATMOS 3100](#) - Atmospheric Chemistry and Air Pollution (3), [GEOG 3210](#) - Global Climate Change (3), [BIOL 1610](#) - Fundamental Principles of Biology I: Cells, Genetics, and Biochemistry (3), [BIOL 1620](#) - Fundamental Principles of Biology II: Evolution and Diversity of Life (3).

³Physical Hydrology: Completed at least 1 of the following: [GEO 5350](#) - Groundwater (3), [GEO 5650](#) - Hydrology and Water Resources (3).

⁴Carbon Cycle: Completed at least 1 of the following: [GEO 5675](#) - Paleoclimate Reconstruction (3), [GEO 5680](#) - The Carbon Cycle: Past, Present, Future (3).

⁵Chemical Hydrology: Completed at least 1 of the following: [GEO 5390](#) - Solute Transport and Subsurface Remediation (3), [GEO 5660](#) - Geochemistry (3), [GEO 5370](#) - Contaminant Partitioning (3).

⁶Geoscience Elective: Earned at least 6 credits from GEO 5000 – 5999.

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