

**BACHELOR OF SCIENCE IN GEOSCIENCE WITH AN EMPHASIS IN ENVIRONMENTAL GEOSCIENCE**

**REQUIRED CORE COURSES:**

Course	Title	Credits	Prerequisites	Offered	Taking When
GEO 1110	INTRO TO EARTH SYSTEMS	3	N/A	FALL/SPRING	
GEO 1115	INTRO TO EARTH SYSTEMS LAB	1	N/A	FALL/SPRING	
GEO 3010	GEOPHYSICS (QI)	3	MATH 1220, GEO 3080, PHYS 2220	SPRING	
GEO 3060	STRUCTURAL GEOLOGY AND TECTONICS	3	GEO 1110, MATH 1060	FALL/SPRING	
GEO 3080	EARTH MATERIALS I (QI)	4	CHEM 1210	FALL/SPRING	
GEO 3090	EARTH MATERIALS II	3	GEO 1110, 3080, MATH 1210	FALL/SPRING	
GEO 4500	FIELD METHODS (CW)	3	GEO 1110, 3060, 3080, 3090, 5760	SPRING	
GEO 4510	FIELD GEOLOGY (1 <sup>st</sup> half)	2	GEO 4500	SUMMER	
GEO 4520	FIELD GEOLOGY (2 <sup>nd</sup> half)	2	GEO 4500 & 4510		
GEO 5760	STRATIGRAPHY AND SEDIMENTARY PROCESSES	4	GEO 3090, 3060	FALL	

**REQUIRED COURSES: 12 CREDITS AMONG THE FOLLOWING 3 AREAS, WITH AT LEAST 3 CREDITS IN EACH AREA**

**BIOSPHERE**

Course	Title	Credits	Prerequisites	Offered	Taking When
GEO 3180	PALEOBIOLOGY	3	GEO 1110	SPRING	
ENVST 2050	Intro to Environmental and Sustainability Science	4	N/A	FALL/SPRING	
BIOL 1210	PRINCIPLES OF BIOLOGY	4	N/A	ALL	
BIOL 2010	EVOLUTION & DIVERSITY OF LIFE	3	BIOL 1210	FALL/SPRING	
BIOL 2020	PRINCIPLES OF CELL BIOLOGY	3	BIOL 1210 & CHEM 1210	FALL/SPRING	
BIOL 3410	ECOLOGY AND EVOLUTION	3	BIOL 1210 & MATH 1210	SPRING	

**HYDROSPHERE**

Course	Title	Credits	Prerequisites	Offered	Taking When
GEO 3300	THE WATER PLANET	3	N/A	SPRING	
GEO 3800	THE OCEANS	3	GEO 1010 or 1110	FALL	
GEO 5350	GROUNDWATER	3	MATH 1220 & GEO 1110	FALL	
GEO 5370	CONTAMINANT PARTITIONING FOR ENGINEERS AND SCIENTISTS	3	CHEM 1210, 1220	FALL EVEN YEARS	
GEO 5390	SOLUTE TRANSPORT AND SUBSURFACE REMEDIATION	3	GEO 3080, 3090, 5350,	SPRING	

**ATMOSPHERE**

Course	Title	Credits	Prerequisites	Offered	Taking When
ATMOS 3200	MOUNTAIN WEATHER AND CLIMATE	3	N/A	SPRING EVEN YEARS	
ATMOS 3100	ATMOSPHERIC CHEMISTRY AND AIR POLLUTION	3	CHEM 1210 & MATH 1220	SPRING ODD YEARS	
ATMOS 5400	THE CLIMATE SYSTEM	3	MATH 1050	FALL	
GEOG 3210	GLOBAL CLIMATE CHANGE	3	N/A	SPRING	

**ALLIED SCIENCES COMPLETE 9 COURSES**

Course	Title	Credits	Prerequisites	Offered	Taking When
CHEM 1210	GENERAL CHEMISTRY I	4	CHEM 1200 OR MATH 1050, 1080, 1210, 1220, 1250, 1260, 1310, 1320	ALL	
CHEM 1215	GENERAL CHEMISTRY I LAB	1	CHEM 1210 OR 1211	ALL	
CHEM 1220	GENERAL CHEMISTRY II	4	CHEM 1210 OR 1211	ALL	
CHEM 1225	GENERAL CHEMISTRY II LAB	1	CHEM 1070 OR 1215, 1240	ALL	
MATH 1210	CALCULUS I	4	MATH 1050 & 1060 OR MATH 1080	ALL	
MATH 1220	CALCULUS II	4	MATH 1210 OR 1250, 1270, 1311, 1310	ALL	
METE 3070 OR MATH 3070	STATISTICAL METHODS IN EARTH SCIENCES AN ENGINEERING (3) OR APPLIED STATISTICS (4)	3 OR 4	MATH 1220 OR 1250, 1270, 1311, 1320	FALL OR ALL	
PHYS 2210	PHYSICS FOR SCIENTISTS AND ENGINEERS I	4	MATH 1210	ALL	
PHYS 2220	PHYSICS FOR SCIENTISTS AND ENGINEERS II	4	PHYS 2210 AND MATH 1220	ALL	

**COMPLETE 12 DEGREE PROGRAM ELECTIVE CREDIT HOURS: ANY UPPER DIVISION COURSE IN THE COLLEGE OF MINES AND EARTH SCIENCES, SCIENCE, OR ENGINEERING, OR OTHER UPPER DIVISION BY APPROVAL**

Course	Title	Credits	Prerequisites	Offered	Taking When

*Note: An additional 7 credits of electives must be completed to reach the university's minimum 122 credit requirement for a Bachelor's degree.*

**Academic Advisor**

Michelle Tuitupou  
[michelle.tuitupou@utah.edu](mailto:michelle.tuitupou@utah.edu)  
 801-581-6553  
 383 FASB

**Faculty Advisor**

Prof. Brenda Bowen  
[brenda.bowen@utah.edu](mailto:brenda.bowen@utah.edu)  
 801-585-5326  
 251 FASB