

## **B.A. in Geology and Earth Sciences Program**

The Bachelor of Arts in Geology and Earth Science is specifically designed for undergraduates who wish to study Earth Sciences as a foundation for careers in a variety of areas, such as environmental law, natural resource business, land use planning, Earth science education, science journalism, and many government positions. The B.A. program includes a broad spectrum of courses and focuses both on information about the Earth, and on how society makes decisions that affect the Earth system. Students must earn a letter grade of C or better in all geology and allied courses. Additionally, all prerequisite courses must be passed with a grade of C or better before progressing to the next level of geology courses.

### **Required courses**

#### **A. Each of the following:**

	<b>Credit Hours</b>	<b>USP</b>	<b>Taught</b>
GEOL 1000-level introductory geology lab course(s)	4-8	PN	
GEOL 2000 Geochemical Cycles & Earth System	4		Fall
GEOL 2010 Mineralogy	3		Fall
GEOL 2020 Petrology	2		Spring
GEOL 2100 Sedimentation & Stratigraphy	4		Spring
GEOL 2080 General field geology	3		Fall
GEOL 4820 Capstone	3	C3	Spring
LIFE 1010 General Biology	4	PN	
CHEM 1020 General Chemistry I	4	PN	
PHYS 1110 General Physics I	4	PN	
MATH 1405 Trigonometry or MATH 1450 Algebra/Trig	3-5	Q	

#### **B. 6 courses from the following list:**

ATSC 2000 Meteorology	4		
or GEOG 3450 Weather & Climate	3		
ECON 2400 Economics of the environment	3		
GEOG 3010 Landforms and soils	3		
GEOL 2050 Principles of Paleontology	3		Spring
GEOL 2070 Introduction to Oceanography	4		Fall
GEOL 3005 Principles of Geophysics or GEOL 2005 Introduction to Geophysics	4		Fall
GEOL 3400 Geologic hazards	4		Spring
GEOL 3500 Global change	4		
GEOL 3600 Earth & Mineral Resources	4	PN	Fall
GEOL 3650 Energy: A Geological Perspective	4	PN	Spring
GEOL 4444 Geohydrology	4		
GEOL 4490 Geochemistry	3		Spring
GEOL 4610 Structural Geology & Tectonics	4		Fall
GEOL 4835 Applied/Exploration Geophysics	3		Spring

POLS 4051 Environmental politics & admin	3	
SOIL 4120 Genesis, morphology, classification of soils	4	Fall
ECON 4400 Environmental economics	3	
or ECON 4410 Natural resource economics	3	

C. Additional 12 hours of electives with advisor consultation, at least 6 hours of which must be taken outside of the Department of Geology & Geophysics