


BA IN EARTH SCIENCE

Units required for Major: 62-64

Program Description

The BA degree program is designed as a shorter, more flexible preparation for some geology jobs, earth science teaching in high school, and jobs such as park naturalist, environmentalist, geologic planning specialist, or in geology-related businesses. The BA degree can be used in dual-track majors combining geology with biological sciences, chemistry, physics, or engineering.

Program Requirements

Code	Title	Units
Required Lower Division Courses (37-38 Units)		
Select one of the following introductory Geology lecture-lab combinations:		4
GEOL 5	Geology Of Mexico	
GEOL 7 & GEOL 8L	Natural Disasters Earth Science Lab	
GEOL 8 & 8L	Earth Science Earth Science Lab	
GEOL 10 & 10L	Physical Geology Physical Geology Lab	
<i>Each of the remaining courses as follows:</i>		
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	3
ASTR 6	Astronomical Observation Laboratory	1
BIO 1 & BIO 2 or BIO 7	Biodiversity, Evolution and Ecology Cells, Molecules and Genes Introduction to the Science of Biology	9 - 10
CHEM 1A or CHEM 6A	General Chemistry I Introduction to General Chemistry	5
GEOL 12	Historical Geology	3
GEOL 12L	Historical Geology Lab	1
MATH 26A	Calculus I for the Social and Life Sciences	3
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics	8
Required Upper Division Courses (26 Units)		
GEOG 111	Elements Of Meteorology	3
GEOL 103	Sedimentology/Stratigraphy	4
GEOL 111A	Field Geology	2
GEOL 111B	Field Techniques	2
GEOL 130	Oceanography	3
Select 6 units from the following:		6
GEOL 105	Paleontology	
GEOL 110A	Structural Geology and Tectonics	
GEOL 114	Volcanology	
GEOL 120	Surficial Processes	
GEOL 121	Geology of California	
GEOL 140	Geology and the Environment 	
GEOL 184	Geological Field Trip	
Select 6 units not taken previously from the following:		6
ANTH 124	Environmental Archaeology	

ANTH 151	Human Paleontology
ENGL 120P	Professional Writing 
GEOG 113	Climate ¹
GEOG 116	Global Climate Change
GEOG 117	Landforms
GEOG 161	California's Water Resources
JOUR 131	Data Journalism
PHIL 125	Philosophy Of Science
RPTA 153	Environmental Interpretation
Select 3-5 other upper-division geology courses with permission of instructor	

Total Units **63-64**

¹ Indicates courses recommended for students wishing to prepare for CSET Exam for teaching high school science.