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

ANTH 124

Code	Title	Units
Required Lower D	ivision Courses (37-38 Units)	
Select one of the	following introductory Geology lecture-lab	4
combinations:		
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	
Each of the remain	ning courses as follows:	
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	3
ASTR 6	Astronomical Observation Laboratory	1
BIO 1	Biodiversity, Evolution and Ecology	9 -
& BIO 2	Cells, Molecules and Genes	10
or BIO 7	Introduction to the Science of Biology	
CHEM 1A	General Chemistry I	5
or CHEM 6A	Introduction to General Chemistry	
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	m 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

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

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