### Geosciences (B.S.)

**Required Lower Division Geosciences Courses (12 units)**
- SIO 50: Intro to Physical Geology (6)
- SIO 65: Geosciences Seminar (2)
- SIO 75: Geological History of the Earth (4)

**Required Lower Division Preparatory Courses (36 units)**
- Math 20A
- Math 20B
- Math 20C
- Chem 6A
- Chem 6B
- Chem 6C
- Phys 2A
- Phys 2B
- Phys 2C

**Required Upper Division Geosciences Courses (20 units)**
- SIO 100: Geological Field Methods
- SIO 102: Intro to Geochemistry
- SIO 103: Intro to Geophysics
- SIO 113: Computational & Data Analysis in Geosciences
- SIO 120: Mineralogy

**Upper Division Electives: Areas of Concentration (7 courses, minimum 28 units)**

**Geology**
- SIO 104: Paleobiology (6 units)
- SIO 105: Sedimentology and Stratigraphy
- SIO 106: Hydrogeology
- SIO 110: Intro to GIS and GPS
- SIO 144: Intro to Isotope Geochemistry
- SIO 110: Intro to GIS and GPS
- SIO 115: Ice and the Climate System
- SIO 135: Satellite Remote Sensing
- SIO 144: Intro to Isotope Geochemistry
- SIO 153: Geomorphology
- SIO 162: Structural Geology
- SIO 166: Environmental Archaeology
- SIO 171: Intro to Physical Oceanography
- SIO 199: Independent Research

**Geological Oceanography**
- SIO 101: California Coastal Oceanography
- SIO 111: Introduction to Waves and Tides
- SIO 117: Physical Basis of Global Warming
- SIO 119: Physics and Chem of the Oceans
- SIO 135: Satellite Remote Sensing
- SIO 138: The Coral Reef Environment
- SIO 141: Chem. Principles of Marine Systems
- SIO 143: Ocean Acidification
- SIO 144: Intro to Isotope Geochemistry
- SIO 160: Global Tectonics
- SIO 166: Environmental Archaeology
- SIO 199: Independent Research

**Environmental Geology**
- SIO 106: Hydrogeology
- SIO 107: Water Pollution
- SIO 108: Paleoclimatology
- SIO 110: Intro to GIS and GPS
- SIO 115: Ice and the Climate System
- SIO 135: Satellite Remote Sensing
- SIO 144: Intro to Isotope Geochemistry
- SIO 153: Geomorphology
- SIO 162: Structural Geology
- SIO 166: Environmental Archaeology
- SIO 199: Independent Research

**Geophysics**
- SIO 110: Intro to GIS and GPS
- SIO 115: Ice and the Climate System
- SIO 135: Satellite Remote Sensing
- SIO 152: Petrology and Petrography
- SIO 155: Whole Earth Geochemistry
- SIO 160: Global Tectonics
- SIO 161: Seismology
- SIO 162: Structural Geology
- SIO 170: Volcanology
- SIO 182: Envir. and Exploration Geophysics
- SIO 199: Independent Research

*NOTE: Courses with an asterisk may have additional Math or Physics prerequisites. Please check the Catalog for details*