The minor in Geology offers students a chance to emphasize in one of four areas: General Geology, Engineering Geology, Geochemistry, or Paleobiology.

Students majoring in Geology may elect to complete a minor in Geophysics, Environmental Geology, or Oceanography. They may not complete a minor in Geology.

Students majoring in Marine & Coastal Science may elect to complete a minor in Geology, Geophysics, or Environmental Geology. They may not complete a minor in Oceanography.

The minor is sponsored by the Department of Earth & Planetary Sciences (https://catalog.ucdavis.edu/departments-programs-degrees/earth-planetary-sciences/).

Advising
Visit the staff major advisor (https://eps.ucdavis.edu/students/undergrad/advising/) for help navigating minor requirements and planning for your degree. Visit the faculty major advisors (https://eps.ucdavis.edu/students/undergrad/advising/) for additional advice on courses, careers, and graduate school.

Faculty Advisors: Same as Geology Major Faculty Advisors (https://catalog.ucdavis.edu/departments-programs-degrees/earth-planetary-sciences/geology-bs/); except Paleobiology emphasis: R. Motani, G. Vermeij.

### General Geology Emphasis

**Code** | **Title** | **Units**
--- | --- | ---
GEL 001 | The Earth | 3-4
or GEL 050 | Physical Geology | 3-4
GEL 050L | Physical Geology Laboratory | 2
GEL 101 | Structural Geology | 3
GEL 107 | Earth History: Paleobiology | 3
GEL 108 | Earth History: Paleoclimates | 3
GEL 109 | Earth History: Sediments & Strata | 3
GEL/ESP 116N | Oceanography | 3
or GEL 134 | Environmental Geology & Land Use Planning | 3

**Total Units** 20-21

### Engineering Geology Emphasis

**Code** | **Title** | **Units**
--- | --- | ---
GEL 050 | Physical Geology | 5
& 050L | Physical Geology Laboratory | 5

### Geochemistry Emphasis

**Code** | **Title** | **Units**
--- | --- | ---
GEL 060 | Earth Materials: Introduction | 4
GEL 146 | Radiogenic Isotope Geochemistry & Cosmochemistry | 3
or GEL 148 | Stable Isotopes & Geochemical Tracers | 3
CHE 110A | Physical Chemistry: Introduction to Quantum Mechanics | 4
CHE 110B | Physical Chemistry: Properties of Atoms & Molecules | 4

Choose two electives: 6-9

- CHE 110C | Physical Chemistry: Thermodynamics, Equilibria & Kinetics | 4
- GEL 108 | Earth History: Paleoclimates | 3
- GEL 146 | Radiogenic Isotope Geochemistry & Cosmochemistry | 3
- GEL 148 | Stable Isotopes & Geochemical Tracers | 3
- HYD 134 | Aqueous Geochemistry | 3
- SSC 102 | Environmental Soil Chemistry | 3

**Total Units** 21-24

### Paleobiology Emphasis

**Code** | **Title** | **Units**
--- | --- | ---
GEL 107 | Earth History: Paleobiology | 3
GEL 107L | Earth History: Paleobiology Laboratory | 2
GEL 108 | Earth History: Paleoclimates | 3
GEL 141 | Evolutionary History of Vertebrates | 3
or GEL 144 | Historical Ecology | 3

Choose at least 9 additional units: 9

- ANT 151 | Primate Evolution | 3
- ANT 152 | Human Evolution | 3
- EVE 100 | Introduction to Evolution | 2
- EVE 101 | Introduction to Ecology | 2
- EVE 102 | Population & Quantitative Genetics | 2

1 Chemistry majors may substitute one of the elective courses for Chemistry CHE 110B.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EVE 105</td>
<td>Phylogenetic Analysis of Vertebrate Structure</td>
</tr>
<tr>
<td>EVE 112</td>
<td>Biology of Invertebrates</td>
</tr>
<tr>
<td>EVE 112L</td>
<td>Biology of Invertebrates Laboratory</td>
</tr>
<tr>
<td>EVE 140</td>
<td>Paleobotany</td>
</tr>
<tr>
<td>EVE 149</td>
<td>Evolution of Ecological Systems</td>
</tr>
<tr>
<td>GEL 109</td>
<td>Earth History, Sediments &amp; Strata</td>
</tr>
<tr>
<td>GEL/ESP 150C</td>
<td>Biological Oceanography</td>
</tr>
</tbody>
</table>

**Total Units** 20