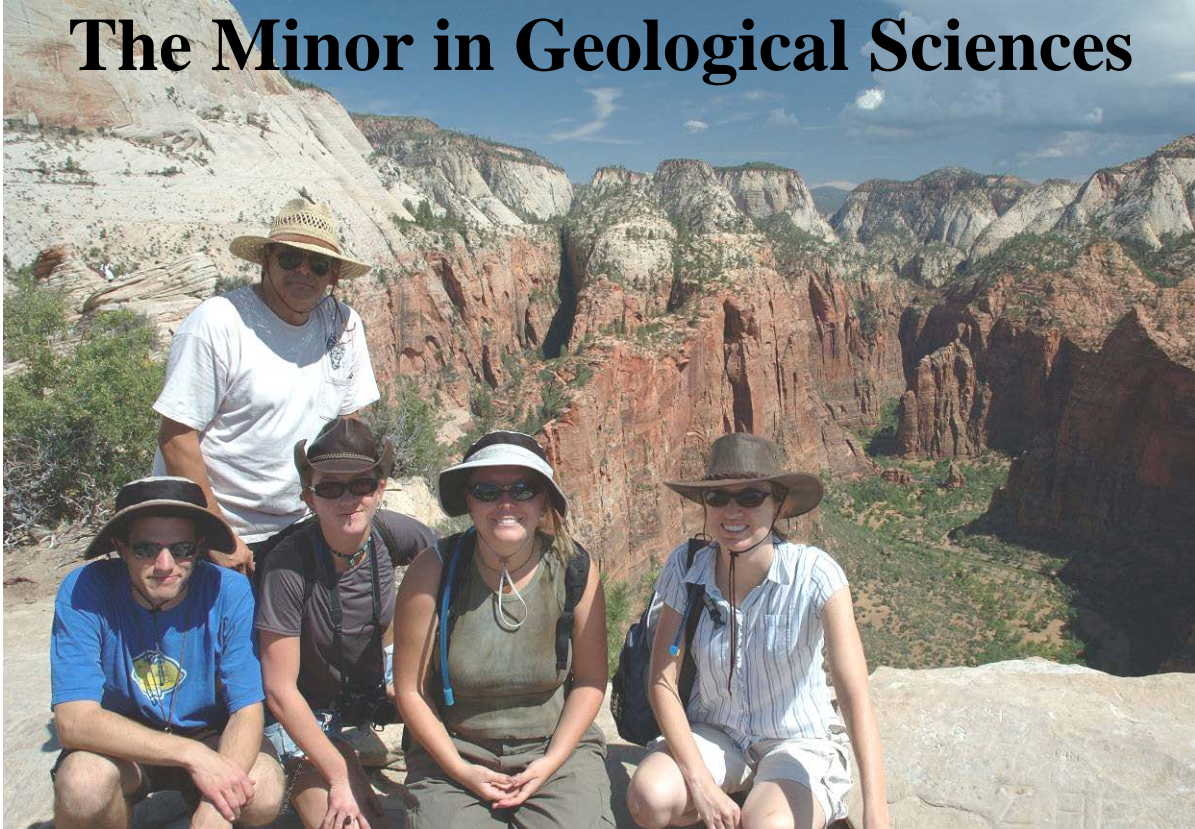


# The Minor in Geological Sciences



Have you enjoyed Geology 101, 110T, or 140 and want to learn more? Are you interested in the environment, or are in an environmentally related field? Are you simply curious about the world around you and want to know more about how the Earth works? If so, then you should consider a minor in Geological Sciences.

The geology minor provides students with a solid background in the basics of geology, proving invaluable for future K-12 teachers and expanding employment opportunities for biology, chemistry, physics, math, engineering, anthropology, and geography majors. Students from majors such as journalism, political sciences, communication and business (e.g., marketing) also benefit from the geology minor, especially if their interests are in environmentally-related areas. Even students in seemingly unrelated majors will benefit by learning more about the Earth, preparing for Earth-friendly careers, and becoming more environmentally aware citizen-scientists.

## Requirements for a Minor in Geological Sciences

- A minimum of 20 units in geological sciences
- 12 units must be distinct and different from major requirements
- At least 12 units must be upper division units (6 units must be in residence)
- No more than 3 units of Geol 310T may be applied to the minor

## Suggested Curricula for the Minor in Geological Sciences

The “tracks” listed below are sets of courses that may be appropriate for certain majors. Course titles for those listed are shown below; see a Department of Geological Sciences advisor to select courses consistent with your educational and professional goals. Contact the Department’s office in MH-254 (657-278-3882) to make an appointment to get more information about the minor in geology. Also see <http://geology.fullerton.edu>.

### Courses in Geological Science

Geol 101 – Physical Geology  
Geol 101L – Laboratory in Physical Geology  
Geol 105 – Field Experiences in California Geology  
Geol 110T – Topics in Introductory Geology  
    including:  
    Dinosaur World  
    Earthquakes and Volcanoes  
Geol 140 – Earth’s Atmosphere and Oceans  
Geol 201 – Historical Geology  
Geol 303A – Mineralogy  
Geol 303B – Petrology  
Geol 305 – Earthquake Impact on Structures  
Geol 310T – Topics in California Geology,  
    including:  
    Geology of California  
    Earthquakes  
    Geology of the National Parks  
    California Geology  
    Geological Hazards of California

Geol 321 – Sedimentation and Stratigraphy  
Geol 322 – Paleontology  
Geol 333 – Oceanography  
Geol 335 – Hydrology and Surficial Processes  
Geol 355 – Earth’s Interior  
Geol 360 – Structural Geology  
Geol 376 – Engineering Geology  
Geol 380 – Geologic Field Techniques  
Geol 404 – Optical Mineralogy and Petrography  
Geol 406 – Geochemistry  
Geol 420 – Earth Science for Science Teachers  
Geol 436 – Hydrogeology  
Geol 437 – Water Quality Investigations  
Geol 455 – Earthquake Seismology  
Geol 456 – Applied Geophysics  
Geol 470 – Environmental Geology and Planning  
Geol 475 – Quaternary Tectonics  
Geol 481A – Geology Field Camp  
Geol 481C – Hydrology Field Camp

#### Prospective Teachers

Geol 101 and 101L,  
    or 110T,  
    or 140 and 101L (4 units)  
Geol 201 (3 units)  
Geol 335 (3 units)  
Geol 333 (3 units)  
Geol 420 (4 units)  
Geol 310T (2 units)  
Geol 105 (1 unit)

#### Biology Majors

Geol 101,  
    or 110T,  
    or 140 (3-4 units)  
Geol 101L (1 unit)  
Geol 105 (1-2 units)  
Geol 201 (3 units)  
Geol 322 (3 units)  
Geol 333 (3 units)  
Geol 335 (3 units)  
Geol 380 (3 units)

#### Chemistry Majors

Geol 101 and 101L,  
    or 110T,  
    or 140 and 101L (4 units)  
Geol 201 (3 units)  
Geol 303A (4 units)  
Geol 303B (4 units)  
Geol 310T (2 units)  
Geol 406 (3 units)

#### Physics Majors

Geol 101 and 101L,  
    or 110T,  
    or 140 and 101L (4 units)  
Geol 201 (3 units)  
Geol 355 (3 units)  
Geol 360 (4 units)  
Geol 380 (3 units)  
Geol 455 or 456 (3 units)

#### Geography Majors

Geol 101 and 101L,  
    or 110T,  
    or 140 and 101L (4 units)  
Geol 105 (1 unit)  
Geol 201 (3 units)  
Geol 310T (3 units)  
Geol 333 (3 units)  
Geol 335 (3 units)  
Geol 380 (3 units)

#### Engineering, Computer Science or Math Majors

Geol 101 and 101L,  
    or 110T,  
    or 140 and 101L (4 units)  
Geol 201 (3 units)  
Geol 305, 335, 355  
    or 376 (3 units)  
Geol 360 (4 units)  
Geol 380 (3 units)  
Geol 455, 456, or 436 (3 units)

#### Political Science, Journalism, Business and other Humanities or Social Sciences

Geol 101 and 101L,  
    or 110T,  
    or 140 and 101L (4 units)  
Geol 105 (1 unit)  
Geol 201 (3 units)  
Geol 310T (3 units)  
Geol 380 (3 units)  
Any 2 of Geol 322, 333, 335,  
    or 470 (6 units)

#### Anthropology Majors

Geol 101 and 101L,  
    or 110T,  
    or 140 and 101L (4 units)  
Geol 201 (3 units)  
Geol 303A (4 units)  
Geol 310T (3 units)  
Geol 335 (3 units)  
Geol 380 (3 units)