



# SOLID EARTH DYNAMICS MINOR

The Solid Earth Dynamics minor will explore the tectonic systems of Earth and other terrestrial planets in our solar system, with the goal of providing students with a better understanding of the physical and chemical processes involved in the deformation of rock and other geologic materials. This minor equips students to analyze and address geological challenges and phenomena which are crucial in environmental and engineering applications.

## Required Courses (6-8 hours)

- GEOL1121/1121L:** Earth Processes and Environment, 3 or 4 hours
- GEOL1122/1122L:** Earth's History of Global Change, 3 or 4 hours
- GEOL1250/1250L:** Physical Geology, 3 or 4 hours
- GEOL1260/1260L:** Historical Geology, 3 or 4 hours

## Elective Courses: Choose 3 (9 hours) OR Choose 2 (6 hours) + Research Option

- GEOL4330:** Geology of North America, 3 hours
- GEOL4350:** Planetary Dynamics, 3 hours
- GEOL4360:** Introduction to Rock Mechanics, 3 hours
- GEOL4600:** Solid Earth Geophysics, 3 hours
- GEOL4620:** Exploration Geophysics, 3 hours
- GEOL4940:** Volcanology and Volcano Petrology, 3 hours

## Research Option:

One elective course can be replaced with a 3-hour research or senior thesis course.

15 total credit hours

WE ARE GEOLOGISTS