



# GEOENERGY & MINERAL RESOURCES MINOR

The GeoEnergy and Mineral Resources minor focuses on the exploration, extraction, and sustainable management of energy resources and minerals. It addresses key areas such as fossil fuels, renewable energy, and mineral deposits while emphasizing environmental sustainability. This minor prepares students to tackle resource-related challenges with a focus on minimizing ecological impact and supporting society in energy transition.

## 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

**GEOL4110:** Principles of Geochemistry, 3 hours

**GEOL4310:** Economic Geology, 3 hours

**GEOL4320:** Petroleum Geology, 3 hours

**GEOL4330:** Geology of North America, 3 hours

**GEOL4550:** Clay Mineralogy and Geochemistry, 3 hours

**GEOL4620:** Exploration Geophysics, 3 hours

**GEOL4640:** Geochemical and Geophysical Surveys, 3 hours

**CRSS(GEOL)4540:** Pedology, 3 hours

**ENVM(AAEC)4150:** Energy Economics, 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