Catalog Description

This minor will provide students with a sophisticated understanding of the origin, chemistry, and physical properties of the materials making up the solid Earth, and how they shape Earth processes. Building on a two-course base of fundamental knowledge of Earth materials, the program is completed by two advanced courses addressing their properties and behaviors at either a microscopic or global scale. Students attempting this minor will need a strong background in Chemistry at the level of CHEM 103. Depending on the advanced courses chosen, other prerequisites or corequisites will apply, including: GEOL 102 (Historical Geology) for GEOL 341 (Structural Geology); and GEOL 423 (Optical Mineralogy) for GEOL443 (Petrology). This minor will be of particular relevance to students with broad interests in Geology, material sciences, Chemistry, and solid-state Physics.

Courses required for the minor are:

- One of the following:
  - GEOL 100/110 Physical Geology (4)
  - GEOL 120/110 Environmental Geology (4)
- GEOL 322 Mineralogy (4)

In addition, the student must choose two from the following:

- GEOL 341 Structural Geology (4)
- GEOL 423 Optical Mineralogy (3)
- GEOL 443 Petrology (4)
- GEOL 445 Principles of Geochemistry (4)

Depending on the optional course taken, there are a total of 15 - 16 required credits. All courses presented for the minor must be passed with a grade of C or better.

Declared Geology majors and students who have completed the major may not also minor in Earth Material Properties.