Minor in Geology
The Minor in Geology is designed specifically for those who have a primary interest in a field that can be complemented by a basic knowledge of geological concepts. The minor can be of particular benefit to students majoring in Anthropology, Environmental Law, Architecture, Leisure Studies, Business, Political Science, Geography, Journalism and other liberal arts.

Minor Requirements (15 credits total)
Choose one from the following:

- GEOL 11040 How the Earth Works
- GEOL 11042 Earth & Life Through Time
- GEOL 21062 Environmental Earth Sciences
- GEOL 21080 All About the Oceans

*Plus 12 elective GEOL credits chosen from courses not listed above.*

General Requirements for All Minors
- Course graded on an S/U basis may not be applied to the minor.
- No more than three hours of GEOL 40096 Individual Investigation, may be applied to the minor.
- Students must meet prerequisites for courses chosen as Geology (GEOL) electives.
- 2.0 GPA Admission requirement minimum

Prerequisite/Corequisites
Most upper division Geology classes have prerequisites, many of which will be satisfied by majors in other sciences. Please consult the version of the undergraduate course catalog for details.

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Minor in Earth Science

The Earth Science minor prepares students to integrate concepts and knowledge of Earth’s surface, its interior, and its interactions with life and water. Scientific knowledge about Earth’s processes and earth-life-water interactions is critical for making informed decisions in science education, public policy, public health, conservation, resource management, and environmental consulting. Students will gain essential knowledge of earth systems science, including the interactions of earth’s atmosphere, biosphere, hydrosphere, and lithosphere over both shorter (millennium) and longer (mega-annum) time periods.

Minor Requirements (15 - 16 credits)

GEOL 11040 How the Earth Works (3)
GEOL 33025 Water and the Environment (3)
GEOG 41066 Global Climate Change (3)

Choose two from the following electives

GEOG 31062 Fundamentals of Meteorology (3)
GEOG 41073 Cons. of Natural Resources (3)
GEOG 49070 GIS (4)
GEOL 42030 Remote Sensing (3)
GEOL 44025 Geologic Hazards (3)
GEOL 44074 Paleoceanography (3)

1 Other relevant courses may be substituted in consultation with an advisor

Minor in Environmental Geology

The Environmental Geology minor prepares students to integrate concepts and knowledge of environmental geology and to communicate these issues to a variety of audiences, including policymakers and the public. Scientific knowledge about Environmental Geology processes is used to inform different areas of formal study such as anthropology, architecture, geography, political science, environmental law, environmental studies, and recreation and park management. Students will gain broad knowledge of geology, and the environmental impacts of anthropogenic-induced change on the earth in the immediate short-term and over longer periods. Competencies focus on human-water-rock interactions at Earth’s surface (the critical zone).

Minor Requirements (15 - 16 credits)

GEOL 21062 Environmental Earth Science (3)
GEOL 11040 How the Earth Works (3) OR GEOL 21080 All About the Oceans (3)
GEOL 33025 Water and the Environment (3)

Choose two from the following electives

GEOL 32066 Geomorphology^ (4)
GEOL 40380 Biogeochemistry* (3)
GEOL 41085 Mass Extinctions* (3)
GEOL 42030 Remote Sensing (3)
GEOL 42035 Scientific Methods in Geology (3)
GEOL 44025 Geologic Hazards (3)
GEOL 44072 Marine Processes* (3)
GEOL 44074 Paleoceanography (3)

1 Other relevant courses may be substituted in consultation with an advisor

^ Exception to requirement of GEOL 11041

Minor in Paleontology

The Paleontology minor prepares students to integrate concepts in geology and biology to address issues in conservation paleobiology, historical and current causes of extinctions, and evolutionary patterns on geological scales. Scientific knowledge about Paleontology is used to inform different areas of formal study such as biological sciences, conservation biology, anthropology, environmental studies, geography, and museum and natural history education. Students will gain broad knowledge of paleobiology and the interplay between the geosphere and the biosphere over geologic time applied to interpretation of modern and historic floras and faunas and communication about these issues to policymakers and the public.

Minor Requirements (14 - 15 credits)

GEOL 11042 Earth & Life Through Time (3)
GEOL 11043 Earth & Life Through Time lab (1)
GEOL 34061 Principles of Paleontology (4)

Choose two from the following electives, one of which must be GEOL

ANTH 18630 Human Evolution (3)
ANTH 48810 Human Paleontology (3)
BSCI 30560 Invertebrate Zoology (4)
BSCI 30275 Local Flora (3)
BSCI 40163 Evolution (3)
BSCI 40556 Vertebrate Zoology (4)
GEOL 44070 Sedimentology & Stratigraphy (4)
GEOL 41085 Mass Extinctions (3)
GEOL 44072 Marine Processes (3)
GEOL 41079 All About Dinosaurs (3)
GEOL 44074 Paleoceanography (3)