

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 or science fields.

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.

Minor in Computers and Geosciences

The Computers and Geosciences minor provides a foundation in computer science and computational data processing for students in any field of Geosciences, allowing students to work with substantial computing and data science oriented cyber systems. The minor enables students to competitively manage the computing and cyber aspects of their professions.

Students in Computers and Geosciences minor will use Python programming language to import, clean, analyze, visualize and learn data from their real-world applications.

Minor Prerequisites:

MATH 11010 Algebra for Calculus (KMCR)

Minor Requirements (22 credits total)

CS 10051	Intro to Computer Science
CS 10062	Programming for Problem Solving in Sciences
CS 20062	Advanced Programming with Python
CS 30062	Python for Data Science
GEOG 49070	Geographic Information Science
GEOL 42030	Remote Sensing
OR	
GEOG 49230	Remote Sensing

Department of Geology

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DEPARTMENT OF GEOLOGY



GEOLOGY MINORS

Earth Science
Environmental Geology
Paleontology
Geology
Computers and Geosciences

Undergraduate Advisors

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College of Arts
and Sciences

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 electives¹

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) <u>OR</u>
GEOL 21080	All About the Oceans (3)
GEOL 33025	Water and the Environment (3)

Choose two from the following electives¹

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)