Do you enjoy being outdoors and exploring your Earth?

Are you interested in climate change?
Do you want to know more about where we get our water?
Would you like to integrate the studies of the oceans, solid Earth and the Earth surface to examine how these systems sustain life on Earth?

Would you like to make this your career?

CONTACT INFORMATION
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earth.indiana.edu

Bachelor of Science in Earth Science
pathway for your CAREER in Earth Sciences

here's how we can help

explore YOUR Earth!
the Bachelor of Science in Earth Science degree pathways are:

**EARTH MATERIALS** - Minerals, rocks, soil, and water are the materials of which the Earth and its natural resources are composed. You will learn what makes up these materials, how they are formed, and what they reveal about the Earth’s structure and history.

**WATER RESOURCES** - The study of the water cycle. Examines the physical, chemical, and biological processes involving water as it cycles through the atmosphere and over and beneath the Earth’s surface.

**EARTH HISTORY** - The history of Earth’s continents, atmosphere, oceans, and life are important components of the Earth History pathway. You will learn how to reconstruct the movements of continents, the history of mineral-producing basins, and the evolution of life.

**GLOBAL ENVIRONMENT AND SUSTAINABILITY** - This field is an integrated study of our environment and its long-term sustainability involving such fields as ecology, biology, geochemistry, mineralogy, hydrology, and atmospheric science.

Students choose among courses in geobiology, geochemistry, energy, environmental geology, hydrology, and geophysics to create an individualized pathway.

required courses

**EAS courses**

**EARTH MATERIALS**
- E406 Introduction to Geochemistry
- E416 Economic Geology
- E418 Igneous and Metamorphic Petrology
- E427 X-ray Mineralogy

**EARTH HISTORY**
- E308 Paleontology and Geology of Indiana
- E340 Physical Meteorology, Climate, and Paleoclimate
- E411 Invertebrate Paleontology
- E412 Vertebrate Paleontology

**WATER RESOURCES**
- E118 Sustainability in Water Resources
- E351 Hydrology

**GLOBAL + ENVIRONMENTAL SUSTAINABILITY**
- E313 Oceans and Our Global Environment
- E340 Physical Meteorology, Climate, and Paleoclimate
- E411 Invertebrate Paleontology
- E412 Vertebrate Paleontology

**GLOBAL ENVIRONMENT AND SUSTAINABILITY**
- E415 Geomorphology
- E451 Hydrogeology
- E490 Environmental and Energy Diplomacy

E225 Earth Materials
E226 Earth Processes
E227 Earth Climate and History
E314 Data Analysis
X429 Field Geology in the Rocky Mountains

E451 Principles of Hydrogeology
E333 Sedimentary and Tectonic Processes
E415 Principles of Geomorphology
E454 Fundamentals of Plate Tectonics
E406 Geochemistry
E444 Analytical Geochemistry
E446 Hydrometeorology
E451 Hydrogeology

E415 Geomorphology
E451 Hydrogeology
E490 Environmental and Energy Diplomacy

energy consulting, environmental engineering, environmental consulting, environmental law, hydrology/water resources, park services and conservation, geoarchaeology, paleontology, museum curation, military engineering, mining, oil and gas, engineering geology, construction firms, state agencies (DNR, Geological Surveys), federal agencies (NASA, USGS, DOE), highway department, department of natural resources, state geological surveys, geology/environmental education, science writing/journalism

questions?

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