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?

https://earth.indiana.edu
Students choose among courses in geobiology, geochemistry, energy, environmental geology, hydrology, and geophysics to create an individualized pathway.

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.

required courses

+ 

EAS courses

**EARTH MATERIALS**

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

- 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

**WATER RESOURCES**

- E118 Sustainability in Water Resources
- E351 Hydrology

- E406 Geochemistry
- E444 Analytical Geochemistry
- E446 Hydrometeorology
- E451 Hydrogeology

**EARTH HISTORY**

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

**GLOBAL ENVIRONMENT AND SUSTAINABILITY**

- E131 Oceans and Our Global Environment
- E171 Environmental Geology
- E341 Natural History of Coral Reefs
- 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

to prepare for your career in

- 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

**contact us**

Director of Undergraduate Studies:
Brian Yanites | byanites@indiana.edu | 812-855-6109
Undergraduate Advisor | easadv@iu.edu
Phone (general info): 812-855-5582
Email: geoinfo@indiana.edu

https://earth.indiana.edu