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 study how Earth, its oceans, and its surface processes sustain life?
Would you like to make this your career?

explore your Earth!

earth.indiana.edu

here’s how we can help

Bachelor of Arts in Earth and Atmospheric Sciences

a flexible degree for your CAREER in Earth and Atmospheric Sciences

CONTACT INFORMATION
Chair of the Department:
P. David Polly | geochair@indiana.edu | (812) 855-5581
Director, Undergraduate Studies:
Brian Yanites | byanites@indiana.edu | (812) 855-6109
Undergraduate Advisor: easadv@indiana.edu
Bachelor of Arts in Earth and Atmospheric Science

**EARTH SCIENCES** – You will learn what makes up minerals, rocks, soil, and water, how they are formed, and what they reveal about the Earth’s structure and history.

**EARTH HISTORY** – You will learn how to reconstruct the movements of continents, the history of mineral-producing basins, and the evolution of life.

**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.

**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.

**ATMOSPHERIC SCIENCES** – Learn how weather systems develop and move, how to make weather forecasts, and prepare yourself for work in government or in private industry.

**CLIMATE CHANGE** – Learn how past, current, and future climate impact the Earth’s systems.

Career example: former students have double-major ed in political science and EAS with the goal of working in climate policy.

---

1 COURSE AT 100-LEVEL
- E103 Earth Science: Materials and Process
- E104 Evolution of the Earth
- E105 Earth: Our Habitable Planet
- E111 Journey to the Center of the Earth
- E116 Our Planet and Its Future
- E118 Sustainability in Water Resources
- E122 Introduction to Atmospheric Science
- E131 Oceans and Our Global Environment
- E144 Extreme Weather and Its Impact
- E171 Environmental Geology

2 COURSES AT 200-LEVEL
- A225 Earth Materials
- A226 Earth Processes
- A227 Earth Climate and History
- A271 Introduction to Environmental Field Methods

2 COURSES AT 300-LEVEL
- A315 Climate Engineering
- A332 Atmospheric Thermodynamics and Cloud Processes
- A339 Weather Analysis and Forecasting
- A340 Physical Meteorology and Climatology
- A347 Instrumentation for Atmospheric Sciences
- A364 Dynamic Meteorology I
- E308 Paleontology and Geology of Indiana
- E314 Data Analysis in Earth Science
- E328 Energy, Resources, and the Environment
- E333 Sedimentary and Tectonic Processes
- E341 Natural History of Coral Reefs
- E351 Elements of Hydrology
- E371 Field Geology and Paleoanthropology at Olduvai Gorge
- E389 Field Geology and Paleobotany in Wyoming

2 COURSES AT 400-LEVEL
- A437 Synoptic Meteorology
- A434 Dynamic Meteorology
- A456 Wind Power Meteorology
- A476 Climate Change Science
- E406 Introduction to Geochemistry
- E411 Invertebrate Paleontology
- E415 Principles of Geomorphology
- E416 Economic Geology
- E418 Igneous and Metamorphic Petrology
- E444 Analytical Geochemistry
- E448 Sustainable Energy Systems
- E451 Principles of Hydrogeology
- E454 Fundamentals of Plate Tectonics
- E488 Paleoclimatology: A Geologic Record of Earth’s Climate History
- E490 Environmental and Energy Diplomacy
- X428 Field Geology: Montana and Wyoming
- X429 Field Geology in the Rocky Mountains

ADDITIONAL REQUIREMENTS: 2 non-EAS courses that carry N&M credit

```
scan to see all the degree requirements in the 2022-23 course bulletin
```

course requirements

---

a BA in EAS can prepare you for your career in

- energy consulting
- environmental engineering
- environmental consulting
- environmental law
- hydrology/water resources
- park services and conservation
- geoarchaeology
- broadcast meteorology
- aviation and military meteorology
- 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?

Director of Undergraduate Studies: Brian Yanites | byanites@indiana.edu
812-855-6109
Undergraduate Advisor | easadv@iu.edu

earth.indiana.edu