

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?

CONTACT INFORMATION

Chair of the Department:

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here's how we can



explore
YOUR Earth!
earth.indiana.edu

Bachelor of Arts in Earth and Atmospheric Sciences

*a flexible degree
for your **CAREER**
in Earth and
Atmospheric
Sciences*

The degree is extremely flexible, giving students the opportunity to design their own degree within Earth and Atmospheric Sciences. Students can also easily add a double major in EAS to another field in the College.

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-majored in political science and EAS with the goal of working in climate policy.

course requirements

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 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
- X377 Field Geology and Paleoanthropology at Olduvai Gorge

2 COURSES AT 200-LEVEL

- E225 Earth Materials
- E226 Earth Processes
- E227 Earth Climate and History
- E271 Introduction to Environmental Field Methods

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 Geological 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

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

a BA in EAS can prepare you for your career in

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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scan to see all the degree requirements in the 2023-24 course bulletin

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