

CONTACT INFORMATION

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Students are interested in obtaining a degree with a clear pathway for a career in environmental assessment, remediation, and protection.

To lead environmental geoscience projects, many states require licensure as a "Professional Geologist" (PG). This licensure is acquired through a process administered by the National Association of State Boards of Geology (ASBOG). 37 states including Indiana require a PG to lead consulting projects. The innovative nature of this degree is the direct preparation for the FG exam and clear curricular pathway for students wishing to pursue a career in environmental remediation.

Would you like to make this your career?

here's how we can

help

explore
YOUR Earth!
earth.indiana.edu

Bachelor of
Science in
Environmental
Geosciences

*pathway to a degree
for your **CAREER**
in Environmental
Geosciences*



EARTH AND ATMOSPHERIC SCIENCES

the Bachelor of Science in Environmental Geoscience degree will help you prepare for a career as a licensed Professional Geologist

The B.S. in Environmental Geoscience is designed for students who plan to seek professional employment in the environmental geoscience sector or continue for advanced study in related fields. Students who pursue this degree program are introduced to concepts of geoscience relevant to environmental assessment and remediation including Earth materials, stratigraphy, hydrogeology, and GIS. The degree provides the curriculum necessary to prepare for a career as a licensed Professional Geologist, a designation required to lead environmental geoscience projects in most states in the U.S.

The environmental sector of the geosciences is a rapidly growing industry. Students wanting to pursue careers in the environmental geosciences need to develop proficiency in computational tools such as GIS as well as general geoscience knowledge that prepares them for taking the National Association of State Boards of Geology (ASBOG) examination.

required courses

+

EAS courses

EARTH MATERIALS

E333 Sedimentation and Tectonics

E406 Introduction to Geochemistry

E415 Principles of Geomorphology

E104 Evolution of the Earth

E105 Earth: Our Habitable Planet

E225 Earth Materials

E226 Earth Processes

E314 Data Analysis

X429 Field Geology in the Rocky Mountains

E416 Economic Geology

E423 Methods in Applied Geophysics

E451 Principles of Hydrogeology

E454 Fundamentals of Plate Tectonics

WATER RESOURCES

E118 Sustainability in Water Resources

E351 Hydrology

E406 Geochemistry

E444 Analytical Geochemistry

E446 Hydrometeorology

E451 Hydrogeology

GLOBAL + ENVIRONMENTAL SUSTAINABILITY

E415 Geomorphology

E451 Hydrogeology

SPEA-E 444 Hazardous Materials

SPEA-E 452 Solid and Hazardous Waste Management

SPEA-E 464 Organic pollutants: environmental chemistry and fate

SPEA-E 476 Environmental Law and Regulation

CHEM-A 314 Biological and Environmental Chemical Analysis

CHEM-C 341 Organic Chemistry

Careers in the environmental geoscience sector include assessment of environmental conditions for commercial, industrial, or residential development; remediation of water, soil, and soil vapor contamination; hazard, habitat, and paleontological mitigation; as well

to prepare for your career in

as jobs in government agencies or chemical, manufacturing, mining, oil and gas, and railroad industries to name a few. Environmental geoscientists are often employed by these industries to provide expertise in the science of site assessment, characterization, clean-up, and protection. There is also growing demand for students with expertise in regional or global analyses of water, energy, and mineral resources, and linkages with global environmental change.

questions?

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

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