

GEOSCIENCES, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Program Learning Objectives

- **Core Science Application:** To produce graduates who can apply knowledge of the mathematics, physics, chemistry, and biology of Earth processes to the solution of geologic problems.
- **Earth Systems Thinking:** To produce graduates who can integrate multiple aspects of the origin, evolution, and future of the Earth, including the geosphere, hydrosphere, biosphere, and atmosphere.
- **Observation & Measurement:** To produce graduates who can interpret Earth's history and dynamics by observing and measuring minerals, rocks, fluids, fossils, landforms, and structures.
- **Scientific Inquiry & Communication:** To produce graduates who possess the ability to pose questions, collect and interpret data, and solve geologic problems, communicating the results of this scientific inquiry through writing and speaking.