



# Earth and the Environment



## Earth and the Environment at UNH

THE DEPARTMENT OF EARTH SCIENCES within the College of Engineering and Physical Sciences (CEPS) aims to improve our understanding of the Earth and the processes that affect it through excellence in teaching, research, and service. We offer undergraduate and graduate degrees encompassing a broad spectrum of disciplines.

The Department of Earth Sciences offers Master of Science degrees in Earth sciences with concentrations in geology, hydrology, oceanography, ocean mapping, and geochemical systems. Thesis and non-thesis options are available for all degrees with core curriculum differing somewhat among degrees.

The Department of Natural Resources and the Environment within the College of Life Sciences and Agriculture (COLSA) is known for excellence in education, research and outreach that focuses on the function of environmental systems and interactions with society. The department offers a Master of Science in Natural Resources and Resource Administration and Management.

The Natural Resources & Earth Systems Science (NRESS) Ph.D. program draws on the university's strengths in environmental and Earth sciences, life sciences, social sciences, and ethical and policy studies and aims to increase our understanding of environmental and natural resource problems and solutions at local, regional, and global scales. An emerging focus is on sustainability science, which employs a systems-based approach to studying coupled human-natural systems.

Two degrees are offered under the NRESS program: a Ph.D. in Natural Resources and Environmental Studies and a Ph.D. in Earth and Environmental Sciences.



### UNH Facts

- UNH is ranked a “high-impact university” in forestry, geoscience, and environmental science citations.
- Ecosphere ranked UNH second among 316 North American institutions in scholarly productivity in the field of ecology.

[www.eos.unh.edu/agu](http://www.eos.unh.edu/agu)

## Research Areas

Among the research areas offered are atmosphere and climate, and geology and geophysics.

**Atmosphere and climate:** Scientific research into climate change, and the biogeochemical cycles associated with it, is a major area of research by UNH faculty members. Current research includes projects studying the latest Pleistocene deglaciation, Holocene climatic change recorded in ice cores and speleothems (stalagmites), trace gas and aerosol transport, biogeochemical cycling of important elements such as carbon and nitrogen, and general circulation modeling of past warm climates.

**Geology and geophysics:** Faculty and students are actively engaged in a diverse array of geological research topics. These include earthquake seismology and rock mechanics, bedrock geology, coastal processes, geochemistry, metamorphic petrology, paleoclimatology, paleontology, Quaternary geology, sedimentology/stratigraphy, and structural geology.

Our location on the Great Bay Estuary near the White Mountains provides an ideal backdrop for hands-on learning opportunities, and evidence of mountain-building, igneous activity, and glaciations are preserved within driving distance of campus.

For more information on programs and how to apply, visit:

CEPS at <http://www.unh.edu/esci/grad/degrees.html>

COLSA at <http://colsa.unh.edu/nren/graduate-programs>

NRESS Ph.D. at <http://www.unh.edu/nressphd>

UNH Graduate School at <http://www.gradschool.unh.edu>