Meet the Geology Department...

The Department of Geology at the University of Dayton seeks to prepare the citizen-scientists of tomorrow to understand and meet the evolving challenges of a complex planet.

Coursework and research in:
- paleontology
- structural geology
- mineralogy
- remote sensing
- glaciers
- climate
- water
- sustainability

25-40 student majors and minors
5 Part-time Faculty
10 Full-time Faculty & Staff
Academics
The Geology Department offers two tracks of academic study. Each track offers students opportunities to explore the dynamic, ever-changing world around us.

Our Geology and Environmental Geology majors are joined by a Geology minor, as well as the College’s newest minor in Sustainability, Energy, and the Environment (SEE). SEE is an interdisciplinary minor that brings together faculty, staff, and students from across the University.

In addition, our undergraduate majors now have an exciting opportunity to pursue a graduate Certificate in Geographic Information Systems (GIS).

Find out more >>
• go.udayton.edu/geology
• see.udayton.edu

What else?
The opportunities don’t end at Geology’s doorstep. The University has amazing opportunities for all majors, including the ...

Rivers Institute at the University of Dayton
and River Stewards Program, which identifies select undergraduate students from all disciplines, offering resources and opportunities that focus on understanding water resources, the environment, and community.

Find out more >>
• rivers.udayton.edu

Understanding Earth’s history and processes.
Supporting the human capacity to live sustainably.
During the Colorado Field Course, students work together to decipher the nearly 2.0 billion year history of the Colorado Rocky Mountains, as well as the environmental impacts of human life in such a dynamic landscape.

From the historic gold deposits to Dinosaur Ridge to the glacial features of Rocky Mountain National Park, students experience firsthand a wide diversity of geologic environments.

In the summer of 2010, geology students Anthony Asher and Jared Stoffel joined faculty mentor Allen McGrew to scale precipitous Chimney Rock in the East Humboldt Range of Nevada to collect a sample that proved to be the oldest rock ever documented in the state of Nevada.

*(See full image on the cover)*

In Dec. 2013, UD geology students explored the diverse and dynamic geologic environments of an active plate boundary in New Zealand. From exploring active volcanoes to climbing a glacier, students experienced the titanic forces that shape our Earth through time.
One of the most exciting aspects of undergraduate research is the opportunity to travel to amazing field locations all over the world...

UD geology major Todd Longbottom accompanied faculty advisor Umesh Haritashya on an expedition to investigate the retreating glaciers of the central Himalaya near the headwaters of the Ganges River.

Less than 30 minutes drive from the UD campus, environmental geology major Shayn Roeder collects a sediment core to investigate the soils of the Silver Lake Wetlands restoration site.
Experience...

Students work with faculty, community partners, and alumni while at UD to gain experience towards their future careers.

Alumni have continued on diverse paths following their time at UD and continue to be a part of UD Geology in many ways.

Jon Major
Class of 1980
USGS Cascades Volcano Observatory

Shayn Roeder
Class of 2012
Environmental Geology

Darlene Scott
Class of 1999
GIS Manager Stantec Inc.

Todd Longbottom
2010 Graduate
Graduate School
Careers...

What can you do with geology and environmental geology degrees?

Lots! A recent survey of our alumni turned up a diverse spectrum of job titles and careers attesting to the diverse careers open to geologists. Among our alumni are:

- Environmental consultants, managers, and execs. for firms across the US and world
- Exploration and Production geologists and geophysicists for oil and gas firms
- Managers and executives in the oil and gas industry
- Volcanic hydrogeologist with the USGS Cascades Volcano Observatory
- The President of ASI Environmental Technologies
- Specialists in Geographic Information Systems (GIS)
- Commissioned officer for the NOAA Corps
- Professors, deans, and administrators at Colleges and Universities across the U.S.
- Environmental Lawyers
- A senior vice president for exploration at a major mining company.
- Hazardous Waste Program Manager for Florida Dept. of Environmental Protection
- Numerous Middle and High school earth science teachers
- A consultant geologist for Union Pacific Resource Company
- Head of Environmental geology section at Indiana Geological Survey
- Geologist in the state of Kentucky Division of Oil and Gas, Senior oil and gas inspector
- Researchers in oceanography, U.S. Geological Survey
- Cartographer for the Defense Mapping Agency
- Senior Geologist at the Michigan Department of Natural Resources

Find out more >>

American Geological Institute
http://www.earthscienceworld.org/careers/

What does USGS do?
http://www.usgs.gov/aboutusgs/

NASA: Earth Science Careers
http://nasajobs.nasa.gov/jobs/occupations.htm
http://kids.earth.nasa.gov/archive/career/index.html

Careers in GeoScience Education
http://serc.carleton.edu/NAGTWorkshops/careerprep/jobsearch/profiles.html

Princeton University: Guide to Outdoor/Environmental Careers
http://www.princeton.edu/~oa/jobs/careeroe.shtml

Our graduates continue on in earth and environmental science careers as life-long learners.
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For more information:

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