



Program in Earth Sciences

School of the Environment

Degree Options

Bachelor of Science in Earth and
Environmental Sciences

Major

Earth Sciences

Minors

Earth Sciences
Environmental Science
Forestry
Geospatial Analysis
Natural Resources
Wildlife Ecology

Program Strengths

Get hands-on experience and learn from
leading researchers in science labs and
teaching

Programs like these

- GeoAnalytical Laboratory
- Astrobiology Laboratory
- Computational Geodynamic Laboratory

Work closely with professors who are
nationally recognized experts in:

- Geochemistry of large volcanic eruptions
- Exploration of chemical weathering on
ecology, hydrology, geochemistry, and
microbiology
- Hydrothermal systems
- Magma genesis in volcanic settings and
rifting events
- Astrobiology
- Chemical and physical evolution of the
Earth

Benefit from an integrated School of the
Environment curriculum—you learn to
consider Earth Science from all angles

Admission to the Major Requirements

Students may be admitted as Earth Sciences majors
upon declaring their intent to the department.

Suggested Classes for Freshmen

CHEM 101: Introduction to Chemistry
OR CHEM 105: Principles of Chemistry I
SOE 102: Physical Geology
MATH 106: College Algebra
MATH 108: Trigonometry

Suggested Classes for Transfer Students

SOE 210: Introduction to Earth's History and Evolution
SOE 315: Water and the Earth
SOE 350: Mineralogy and Crystallography

Math Requirement

MATH 106: College Algebra
MATH 108: Trigonometry
MATH 140: Calculus for Life Scientists
OR MATH 171: Calculus I
Advanced statistics course

School of the Environment Core Courses

Ecology, Earth Systems, Water Science,
Modeling and Spatial Analysis, Society and
Environmental Management, Statistics,
Advanced Communications, Integrated
Capstone, Experiential Learning Opportunity

Earth Sciences Core Courses

SOE 207: Geology Field Camp
SOE 350: Earth Materials
Beyond these courses the flexible core allows students
to choose a large block of advanced professional
electives within their chosen area of emphasis. The
three areas of emphasis are Solid Earth; Earth Surface
Processes; Soils and Geography; Water and Climate.



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Student Clubs

Geology Club
Environmental Science Club
The Wildlife Society
Forestry Club

Career Options

Exploration geoscientist
Petroleum or mining geologist
Geochemists
Geophysicists
Paleontologists
Climatologists
Hydrologists
Mineralogists
Planetary geologists
Volcanologists
Oceanographers

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Notes:

The School of the Environment is affiliated with both the College of Arts and Sciences and the College of Agricultural, Human, and Natural Resource Sciences.

