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

Certification Requirements
24 completed semester credits
2.0 minimum grade point average

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

Earth Sciences Core Courses
SOE 207: Geology Field Camp
SOE 350: Mineralogy and Crystallography

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.