

## Overview of Major Requirements: Environmental Geoscience

### About the Major

This bachelor of science program serves as an excellent major for students who wish to concentrate in the scientific aspects of sustainability, including those who might not be looking toward professional careers as scientists. Many Environmental Geoscience students go on to graduate work in environmental law, environmental policy, or sustainability studies. Students majoring in Environmental Geoscience should work out their programs closely with a departmental advisor to insure both breadth and depth in this subject area.

### Major Requirements

- (A) 12 credits in Environmental Systems (ES; 2 credits each; EESC2201-2208, plus labs) **and/or** Exploring the Earth with Lab (4 credits, EESC1132-1133):

ES: The Human Footprint	ES: Water Resources	ES: Ecosystems	ES: The Critical Zone	OR	8 Credits in ES Courses + Exploring the Earth w/ lab (4 credits)
ES: Climate Change	ES: Oceans	ES: Earthquakes	ES: Quantitative Methods		

- (B) EESC2220: Earth Materials with Lab (4 credits)

- (C) At least 18 credits of elective courses (examples below):

Environmental Hydrology	Agroecology	Applications of GIS
Biogeochemical Cycles	Environmental Oceanography	Geomorphology and Landscape Change
Isotope Geochemistry	Paleoclimate Dynamics	Paleobiology
Remote Sensing and Image Interpretation	Seismology	Statistical Analysis of Scientific Data

- (D) A senior research experience (at least 4 credits):

Senior Research Seminar EESC552&5583 (2 credits/semester)	OR	Senior Thesis EESC5595 (3 credits/semester)
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- (E) 3-4 co-requisite courses in Natural Sciences and Mathematics (at least 12 credits)

Calculus II MATH 1101, 1103 or 1105	+	General Chemistry w/ labs CHEM 1109 & 1111	or	Introduction to Physics w/ labs PHYS 2200 & 2201	or	Biology (3 semesters) BIOL2000, BIOL2010 and BIOL 2040
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### Information for First Year Environmental Geoscience Students

For those students who would like to explore the major in Environmental Geoscience, it is suggested that students take two to four of the Environmental Systems courses (and/or Exploring the Earth) during their first year. The laboratory science requirement (E above) should be taken during the first or second year

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