

Geography with a concentration in Environmental Studies, BS

A Bachelor of Science with a major in Geography and a concentration in Environmental Studies focuses on the complex interactions between the environment and society. With this concentration, students will develop skills to address both the natural and social aspects of environmental issues.

Hours required and general/college requirements

A minimum of 120 semester hours, of which 42 must be advanced, and fulfillment of degree requirements for the Bachelor of Science degree as specified in the “[University Core Curriculum](#)” in the Academics section of this catalog and the [College of Liberal Arts and Social Sciences degree requirements](#) requirements (excluding foreign language).

Major requirements, 36 hours

A minimum grade of C is required in all major courses to graduate with a major in this department.

Required courses, 12 hours

- [GEOG 2110 - Foundations of Geographic Research](#)
- [GEOG 2170 - Culture, Environment and Society](#)
- [GEOG 2180 - Geosystems, Environment and Society](#)
- [GEOG 4800 - Geography Capstone](#)

Environmental studies concentration, 24 hours

Earth science

Choose three courses, one course in three of the four areas.

Geomorphology

- [GEOG 4350 - Geomorphology](#)
- [GEOL 3010 - Environmental Geology](#)
- [GEOL 3020 - Historical Geology](#)
- [GEOL 3030 - Earthquakes and Volcanoes](#)

Climatology

- [GEOG 3800 - Weather and Climate](#)

Hydrology

- [GEOG 4750 - Surface Water Hydrology](#)
- [GEOL 4850 - Introduction to Groundwater Hydrology](#)

Biogeography

- [GEOG 3420 - Applied Biogeography](#)
- [GEOG 4710 - Ecosystems: Structure, Function and Services](#)

Human geography

Choose three courses: one course from the Subfields group, two courses from any of the three groups.

Subfields

- [GEOG 3010 - Economic Geography](#)
- [GEOG 3600 - Political Geography](#)
- [GEOG 3120 - Medical Geography](#)
- [GEOG 4210 - Urban Geography](#)

Regional

- [GEOG 3100 - United States and Canada: Economies, Cities and Sustainability](#)
- [GEOG 3750 - Geography of Contemporary Sub-Saharan Africa](#)
- [GEOG 3770 - Latin America: Geography and Globalization](#)

Global issues

- [GEOG 3200 - Sustainability](#)
- [GEOG 4115 - Our Energy Futures](#)
- [GEOG 4245 - Geography of International Development](#)
- [GEOG 4420 - Capitalism, Nature and Climate Change](#)

Techniques

Choose two courses.

- [GEOG 3500 - Introduction to Geographic Information Systems](#)
- [GEOG 4170 - Field Methods and Mapping](#)
- [GEOG 4185 - Statistical Research Methods in Geography](#)
- [GEOG 4525 - Using LiDAR Data in GIS](#)
- [GEOG 4530 - Digital Image Analysis](#)
- [GEOG 4550 - Advanced Geographic Information Systems](#)
- [GEOG 4570 - Special Topics in GIS](#)

Other course requirements

Mathematics

- [MATH 1680 - Elementary Probability and Statistics](#) (or equivalent)

Science

- [GEOG 1710 - Earth Science](#)

One additional science course

- [BIOL 1132 - Environmental Science](#)
- [BIOL 2140 - Principles of Ecology](#)
- [BIOL 2241 - Biology of Higher Plants](#)
- [BIOL 2251 - Biodiversity and Conservation of Animals](#)
- [CHEM 1360 - Context of Chemistry](#)
- [CHEM 1410 - General Chemistry for Science Majors](#) (or equivalent)
- [PHYS 1315 - Introduction to the World of Physics](#)
- [PHYS 1410 - General Physics I](#) (or equivalent)

Environmental electives

Choose one course.

- [ANTH 4400 - Environmental Anthropology](#)
- [BIOL 3160 - Conservation Biology](#)
- [BIOL 4100 - Introduction to Environmental Impact Assessment](#)
- [BIOL 4440 - Stream Ecology](#)
- [ECON 4440 - Economics of Natural Resources and Environment](#)
- [ENGL 4650 - Literature and the Environment](#)
- [HIST 4275 - American Environmental History](#)
- [PHIL 2500 - Environment and Society](#)
- [PHIL 4700 - Environmental Ethics](#)
- [PHIL 4740 - Environmental Justice](#)

Minor

Optional.

Electives

Hours required for electives may vary based on course selection and the University Core Curriculum requirements. Electives may be required to satisfy the advanced hour requirement (42) and/or the minimum total hours required for the degree. For specific information see an academic advisor in the College of Liberal Arts and Social Sciences.
