BS CONCENTRATION IN
EARTH SYSTEMS

A Bachelor of Science with a major in Geography and a concentration in Earth Systems focuses on the Earth’s natural systems and how they affect people and society. With this concentration, students will develop skills to study earth processes.

MAJOR REQUIREMENTS

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

Earth Systems concentration, 24 hours

Earth Science  Choose five courses, at least one in each area
- Geomorphology
  - GEOG 4350 - Geomorphology
  - GEOL 3010 - Environmental Geology (2020)
  - GEOL 3020 - Historical Geology
  - GEOL 3030 - Earthquakes and Volcanoes (2021)
- Climatology
  - GEOG 3600 - Weather and Climate (2021)
- Hydrology
  - GEOG 4750 - Surface Water Hydrology
  - GEOL 4850 - Introduction to Groundwater Hydrology
- Biogeography
  - GEOG 3420 - Applied Biogeography
  - GEOG 4710 - Ecosystems: Structure, Function and Services

Techniques  Choose two courses
- GEOG 3500 - Introduction to Geographic Information Systems
- GEOG 4170 - Mapping and Field Methods
- GEOG 4185 - Statistical Research Methods in Geography
- GEOG 4525 - Using LiDAR Data in GIS (2021)
- GEOG 4530 - Geospatial Digital Image Analysis (2021)
- GEOG 4550 - Advanced Geographic Information Systems

Human Geography  Choose one course
- GEOG 3100 - United States and Canada: Economies, Cities and Sustainability
- GEOG 3200 - Sustainability (2020)
- GEOG 3770 - Latin America: Geography and Globalization
- GEOG 4115 - Our Energy Futures

OTHER COURSE REQUIREMENTS

Required Math and Science Courses
- MATH 1680 - Elementary Probability and Statistics (or equivalent)
- GEOG 1710 - Earth Science

And 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)

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