



Distance Education

Environmental Geographic Information Science Master of Professional Science Degree (2020-2021)

Environmental scientists can analyze and interpret environmental data while geographic information systems (GIS) scientists can manage and manipulate data. This degree will prepare students to meld the two by integrating spatial technologies and environmental information. Students will collaborate with their peers and current/potential employers to learn concepts and skills necessary to complete their work and research in the program. This multidisciplinary education program will also encourage students to report upon their research through scientific communication to both scientists and the general public upon graduation.

Graduates of the MPS in Environmental Geographic Information Science will be able to:

1. Identify and gather many different types of environmental data produced by government agencies, industry, academia, and popular media.
2. Quality check, analyze, and process spatial data related to real-world environmental issues they may encounter in their careers.
3. Critically analyze course project and capstone research results.
4. Become knowledgeable and critical consumers of environmental GIS data and information produced by government agencies, industry, academia, and popular media.
5. Write a grant proposal and construct a budget to conduct research.
6. Learn to work in a team and communicate the results of a final research project to a variety of audiences via presentations, videos, and/or written work.
7. Identify and discuss the ethical dimensions and policy issues related to environmental research.

Program Core

GISC 505 GIS and Remote Sensing for Environmental Solutions

GISC 510 Advanced GIS and Remote Sensing for Ecological Applications

GISC 515 Environmental Research Methods

GISC 520 Creating Maps and Graphics of Ecosystem Change

GISC 605 Modeling Our Changing World

Professional Skills Core

PROF 505 Strategic Management of Innovation

PROF 510 Communication for Environmental Professionals

PROF 515 Ethical Practice and Policy

PROF 590 Capstone I

PROF 690 Capstone II