Environmental Geospatial Technologies
Bachelor’s Degree (2019-2020)

The B.S. in Environmental Geospatial Technologies focuses on professional and applied Geographic Information Systems (GIS). Geospatial technology is one of the fastest growing industries and can be applied to multiple disciplines, ranging from environmental sustainability to emergency response. Students will complete applied, project-based coursework and a senior capstone project tailored to the professional skills required to further the student’s career.

Graduates of the B.S. in Environmental Geospatial Technologies will be able to:

1. Create, organize, understand and analyze geospatial data.
2. Identify and quantify environmental geospatial patterns.
3. Create local, regional, and global solutions to environmental problems with geospatial technology.
4. Develop GIS workflows and solutions based on the environmental needs.
5. Collect and analyze data from various geospatial sources.
6. Critically evaluate information using scientific and quantitative reasoning skills.
7. Demonstrate proficiency in written, oral, and interpersonal communication, and in critical thinking.

Program Core
CIST 101 Introduction to Coding for Environmental Applications
COMM 303 Communicating to Stakeholders
ENVS 301 Building Sustainable Communities
GISC 101 Introduction to Geospatial Technologies
GISC 201 Geographic Information Systems for a Changing World
GISC 301 Applied Spatial Analysis and GIS Application
GISC 303 Conservation Cartography and Visualization
GISC 305 Environmental Impact Using Remote Sensing
GISC 307 Field Data Collection for GIS
GISC 401 Advanced GIS for Environmental Solutions

Environmental Professional Core
EVPC 101 Professional Skills
EVPC 201 Environmental Issues: Deforestation, Biodiversity Loss, and Overpopulation OR EVPC 202 Environmental Issues: Energy, Water Scarcity, and Waste
EVPC 301 Environmental Justice OR EVPC 305 Building a Better World: Ethical Decision-Making
EVPC 401 Transformational Leadership
EVPC 490 Transdisciplinary Capstone

General Education Core
BIOL 103 Biology: Foundations of Life
BIOL 104 Biology: Foundations of Life Laboratory
BIOL 105 Biological Diversity, Ecology, and Evolution
BIOL 106 Biological Diversity, Ecology, and Evolution Laboratory
ENVS 201 The Warming Planet: Understanding Climate Change
MATH 101 College Algebra for Environmental Professionals
MATH 201 Statistics for Environmental Professionals
PSYC 101 Introduction to Psychology
An Arts course
2 Communication courses
A Humanities course
A Language course

General Electives
40 credits of general electives

College Wide Requirements: A minimum of 120 earned credit hours, 30 credits at the 300 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above