

Make your passion
your career.

Accredited | 100% Online | 8 Start Dates a Year

B.S. in Environmental Geospatial Technologies

Gain professional experience with a STEM degree that prepares you for high-tech careers in government, business, consulting, and environmental non-profit organizations. Geospatial Technology is an emerging field of study that includes Geographic Information System (GIS), Remote Sensing (RS) and Cartography. Geospatial technology enables us to acquire data that is referenced to the earth and use it for analysis, modeling, simulations and visualization.

Cost: \$470 per credit
Military Discount: \$423

Job Outcomes, Growth*, & Salary**

Map Technician

\$ \$45k 📈 +2

Cartographer

\$ \$64k 📈 +15

Geographer / GIS Specialist

\$ \$63k 📈 +9.3

Surveyor

\$ \$61k 📈 +11.2

*Projected 10-year growth

**National median salary

Source: O*Net

Program Features

- + **One-on-one academic and professional advising** as our world-class faculty and trained staff strive to make your professional and academic goals a reality.
- + **Unity College** is an accredited institution by New England Commission of Higher Education (NECHE).
- + **Experiential Online.** Experiential programs are delivered 100% online with field work designed with the working professional in mind.
- + **Study when and where you want** and finish your degree while still working full-time.
- + **Make professional connections** with leaders in your field.
- + **Get job placement assistance** through our career services department.
- + **Transfer friendly!** We will accept up to 90 credits.

B.S. in Environmental Geospatial Technologies

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.

Job Outcomes, Growth*, & Salary**



Map Technician

Median Salary: **\$45k**

Growth: **+2**

Map technicians survey land to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. In creating maps they use source data such as surveying notes, aerial photography, satellite data, or other maps.

Cartographer

Median Salary: **\$64k**

Growth: **+15**

Cartographers are responsible for all of the aspects of map-making which include: scientific, technological, and artistic aspects. Cartographers research, collect, store, retrieve, evaluate, and manipulate all of the data in the designated area.

Geographer / GIS Specialist

Median Salary: **\$63k**

Growth: **+9.3**

GIS Specialists are responsible for data analysis, programming, and cartography. Job tasks include: analyzing spatial data through mapping software and designing digital maps with geographic data and various other data sets.

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

- + **Create, organize, interpret, and analyze** geospatial data.
- + **Identify and quantify** environmental geospatial patterns.
- + **Use geospatial technology** to help address local, regional, and global environmental problems.
- + **Develop GIS workflows and solutions** based on the environmental needs.
- + **Collect and analyze data** from various geospatial sources.

Program Core

- CIST 101** Introduction to Coding for Environmental Applications
- BIOL 305** Conservation Biology OR **ENCJ 305** Natural Resource Law
- GISC 101** Introduction to Geographic Information Systems (GIS)
- 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 OR **MATH 105** Precalculus
- MATH 201** Statistics for Environmental Professionals
- PSYC 101** Introduction to Psychology
- An Arts course
- COMM 101** Writing for Environmental Professionals OR **COMM 201** Multimedia Communication for Environmental Professionals
- COMM 303** Communicating to Stakeholders
- A Humanities course
- A Language course

General Electives

43 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

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- + **Develop GIS workflows and solutions** based on the environmental needs.
- + **Collect and analyze data** from various geospatial sources.

General Education Core

- BIOL 103** Biology: Foundations of Life
- BIOL 104** Biology Laboratory 1
- BIOL 105** Biological Diversity, Ecology, and Evolution
- BIOL 106** Biology Laboratory 2
- COMM 303** Communication to Stakeholders
- MATH 201** Statistics for Environmental Professionals

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
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Undergraduate Concentrations



Emergency Disaster Management

Learn how to proceed in the face of disasters to protect our environment.



Environmental Justice & Social Change

Protect our environment through policies and social change.



Marine Biology & Sustainable Aquaculture

Explore all aspects of oceanography, from vegetation to mammals.



Renewable Energy

Explore green technologies, such as wind, solar, geothermal and biomass power.



Wildlife Ecology

Understand how to manage different types of wildlife.



Sustainable Business

Develop sustainable business solutions and strategies for a modern world.



Environmental GIS

Develop in-demand Geographic Information Systems (GIS) mapping skills.



Animal Health & Behavior

Explore fundamental aspects of animal training and care.



Sustainable Food & Farming

Learn the systems that create a sustainable food culture.



Hemp Industry & Science

Explore the potential of the hemp industry and its products.



Adventure Ecotourism

Bring adventure to clients while respecting the environment.

***Continued on next page.**

Undergraduate Concentrations



Biomedical Sciences

Learn the fundamentals of biomedical studies and the science behind health care for humans and animals.



Large Animal Studies

Learn about the care and management of large animals, including proper health, nutrition, and husbandry for equine and livestock animals.