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

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.

**Job Outcomes, Growth*, & Salary**

<table>
<thead>
<tr>
<th>Role</th>
<th>Salary</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Map Technician</td>
<td>$45k</td>
<td>+2</td>
</tr>
<tr>
<td>Cartographer</td>
<td>$64k</td>
<td>+15</td>
</tr>
<tr>
<td>Geographer / GIS Specialist</td>
<td>$63k</td>
<td>+9.3</td>
</tr>
<tr>
<td>Surveyor</td>
<td>$61k</td>
<td>+11.2</td>
</tr>
</tbody>
</table>

*Projected 10-year growth
**National median salary
Source: O*Net
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.

*Projected 10-year growth  **National median salary  Source: O*Net
**B.S. in Environmental Geospatial Technologies**

**Checksheet**

**Student Name / Total Transfer Credits / Checksheet Date**

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
- COMM 303 Communicating to Stakeholders
- 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 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 Communications courses
  - Check here if only one COMM course complete
- 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.
B.S. IN ENVIRONMENTAL GEOSPATIAL TECHNOLOGIES
SECOND DEGREE CHECKSHEET

Student Name / Total Transfer Credits / Checksheet Date

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.

General Education Foundation Requirements

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

Environmental Professional Core

Required:
- EVPC 101 Professional Skills
- EVPC 490 Transdisciplinary Capstone
- EVPC 401 Transformational Leadership

Choose From:
- EVPC 301 Environmental Justice OR EVPC 305 Building a Better World: Ethical Decision-Making

Program Core

- CIST 101 Introduction to Coding for Environmental Applications
- COMM 303 Communication to Stakeholders
- BIOL 305 Conservation Biology OR ENJ 305 Natural Resource Law
- GISC 101 Introduction to Geographic Information Systems (GIS)
- GISC 201 Geographic Information Systems for a Changing World
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- GISC 305 Environmental Impact Using Remote Sensing
- GISC 307 Field Data Collection for GIS
- GISC 401 Advanced GIS Analysis for Environmental Solutions

College Wide Requirements

A minimum of 120 earned credit hours, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above
Undergraduate Concentrations

**Emergency Disaster Management**
Learn how to proceed in the face of disasters to protect our environment.

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

**Environmental Justice & Social Change**
Protect our environment through policies and social change.

**Wildlife Ecology**
Understand how to manage different types of wildlife.

**Marine Biology & Sustainable Aquaculture**
Explore all aspects of oceanography, from vegetation to mammals.

**Animal Health & Behavior**
Explore fundamental aspects of animal training and care.