

The Early College Geographic Information Systems (GIS) Pathway is designed for students who wish to enhance their future with skills in geospatial technology. Coursework stresses hands-on service learning along with relevant theory, giving students practical experience in solving real-world problems.

**This pathway may lead to programs in a variety of majors at UMaine Machias, including:**

- B.S. in Environmental Geographic Information Science with concentrations in:
  - Community Applications
  - Ecological Applications
  - Spatial Data Science
- Undergraduate certificates in Geographic Information Systems Applications (Basic and Advanced)

**Completion of these programs will allow students to pursue careers such as:**

- Cartography
- Community, regional and urban planning
- Geospatial analysis
- GIS applications development
- Land conservation
- Land use and land records mapping
- Project management

**GIS skills are in-demand in a broad and growing range of industries and employers, including:**

- Nonprofit organizations
- Environmental advocacy
- Education
- State, federal and tribal governments
- Marine, earth and life sciences
- Resource extraction

**Delivery: Hybrid or 100% online**  
**Credits: 15**

**Pathway Requirements:**

- GIS 102: Our Digital Earth
- GEO 101: Introduction to Geography
- ENG 101 : Composition and Presentation 1
- GIS 204: Introduction to Global Navigation Satellite Systems
- GIS 300: Geographic Information Systems

*Courses are listed in recommended sequence.*



**Get a Head Start on Your College Degree!**  
**Sign up at [machias.edu/earlycollege](http://machias.edu/earlycollege)**

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