



Geographic Information Systems Applications Minor

What is GIS?

You may not know it, but geographic information systems (GIS) technology is everywhere! Have you ever used web-based map services like Google Maps or MapQuest? Have you ever used a GPS in your car, cell phone or on a camping trip? Have you ever tracked a package en route to you via a delivery service? If you answered yes to any of these questions, you have used GIS technology. GIS refers to computer software, hardware, data, and methods that allow users to easily collect, store and manage map information, create maps, and analyze spatial relationships. With GIS, you can ask geographic questions, solve geographic problems, and communicate geographic ideas. It's used in government, education and the private sector. **GIS professionals are in demand!** The U.S. Department of Labor classifies geospatial technology as one of the 12 fastest growing industries. In environmental and outdoor recreation fields, applicants with GIS skills are in increasing demand, making them more competitive in today's tough job market.

What's the UMM advantage? Real projects, real experience!

Our GIS courses stress hands-on service learning along with relevant theory. You'll get practical experience addressing real world problems and questions. You'll get to test your mapping and geospatial analysis skills in projects with local organizations, companies or agencies, providing valuable services while learning to apply GIS in the real world. By graduation you'll be prepared for a job. Here are a few recent student projects at UMM:

- Service center interns are digitizing tax maps for Washington County towns for planning, economic development, and land use management.
- Students in an advanced GIS course are providing spatial analysis services for a regional sustainability plan.
- UMM GIS students and interns mapped and analyzed scenic resources in Washington and Hancock Counties for the Downeast and Acadia Scenic Inventory Project.

The GIS Applications Minor: A Smart Addition to your Major

Required courses:

GIS 230 Geographic Information Systems Applications I – 4cr
GEO 101 Intro. to Geography or equivalent – 3cr
GIS 330 Geographic Information Systems Applications II – 4cr
GIS 204 Intro. to Global Positioning Systems – 1 or 2cr
Choose TWO additional GIS elective courses 300 level or above

Electives currently offered include...

GIS 312 Municipal Applications of GIS GIS 429 GIS Internship
GIS 420 Remote Sensing & Image Analysis GIS 431 Intro. to Geostatistics
GIS 424 Advanced Projects in GIS GIS 201/301/401 Special Topics in GIS
GIS 426 Community Applications of GIS

Visit www.machias.edu/gis or call 207.255.1214