



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:

- Students and interns have collaborated with local land trusts to map resources like vital habitat, working farms and waterfront, and scenic vistas.
- Students developed a set of maps to help the Town of Machiasport manage their harbors, shorelines, and clam flats.
- The Town of Jonesboro is using maps designed by students to create a comprehensive plan.

The GIS Applications Minor: A Smart Addition to your Major

Required courses:

GIS 230 Geographic Information Systems Applications (GIS) I – 4cr
GEO 101 Introduction to Geography or equivalent (offered online only) – 3cr
GIS 330 Geographic Information Systems Applications (GIS) II – 4cr
GIS 201 Global Positioning Systems (GPS) – 1 or 2cr

Choose two (all require GIS 1 & GIS 2 as prerequisites):

Advanced Projects in Geographic Information Systems (GIS) 4cr
Community Applications of Geographic Information Systems 4cr
Remote Sensing and Image Analysis 4cr
Geostatistics 4cr
GIS Application Development 4cr
GIS Internship – 3cr

Visit www.umm.maine.edu/gis or call 207.255.1214