Because of the growing awareness across disciplines of the strategic value of Geographic Information Science (GIS), particularly through its ability to understand better the complexity of economic, environmental and social systems, the U.S. Department of Labor recently identified GIS as one of nine “high growth industries”. For example, GIS has been instrumental to emergency managers in the face of natural hazards, who utilize it to determine how communities can best mitigate such disasters. Urban planners utilize GIS to optimize existing systems and services, while forecasting where they will be most needed in the future based on emerging population and growth trends. Remote sensing allows land managers to monitor environmental changes via satellite and drone technologies, and inform adaptation strategies for industry and communities alike. Spatial analysis provides epidemiologists with the tools necessary to track and forecast the spread of diseases, helping health care officials limit their impact. In each of these cases, GIS practitioners use geospatial technologies to create sustainable solutions to environmental, economic, and societal problems. Thus, the mission of the GIS BS program at UMD is to train future GIS professionals by providing theoretical and practical instruction, modeling and mentoring, and real-world professional experiences.

**Acquired Skills**

Graduates will:

1. Demonstrate the theoretical knowledge expected from an early-career GISP
2. Acquire, edit, query, analyze and visualize spatial data in the context of larger projects, at the level of an early-career GISP
3. Analyze a spatial question or problem, formalize hypotheses or solutions, then design and implement a workflow, at the level of an early-career GISP
4. Communicate their work effectively, through writing, speaking and producing effective visual representations of geographical information and analysis results
5. Articulate their personal strengths and skills as early-career GISPs as well as areas they wish grow in, and identify resources available to them for self-development
6. Demonstrate behavioral dispositions expected from
GIS professionals

Career Possibilities

GIS is one of the fastest growing fields across all disciplines, and students will learn to integrate analytical and creative problem-solving skills to solve real-world problems, while using cutting-edge technology. As a result, graduates are employed across industries including environmental and social-service consulting firms; local, regional, and national government organizations; and non-governmental organizations.

The majority of our students find employment as GIS technicians upon graduation from UMD, and stay in Minnesota. Our first graduates (2012-2013) are now moving up to more managerial positions. Most students applying get admitted to graduate school, but the vast majority of our students seeks immediate employment instead.

Scholarships

CLA is proud to be able to offer over 90 alumni and donor funded scholarships to our students each year. In total over $190,000 is awarded out to CLA majors and some minors as well. Each department facilitates the process for their specific scholarships and students are also encouraged to apply for CLA-wide scholarships offered to students in any field.

- Matti Kaups Scholarship Award
- Emma Goldman Scholarship in Geography
- Carlson/Amys Family Scholarship

Student Clubs

Gamma Theta Upsilon Honor Society

Graduate Report

Recent UMD Graduates Job Placement Data & Employers

Here's a sampling of positions Geographic Information Science B.A. grads have attained six months to one year after graduation.

- GIS Intern - AmeriCorps, National Park Service, Atlanta, GA
- GIS Technician - Bismarck Map Company, Duluth, MN
- Planning & GIS Technician - St. Croix County, Hudson, WI
- Graduate School, Geographic Information Science, University of Minnesota Twin Cities

For more data see the Geographic Information Science B.A. Graduate Follow-Up Report. For ideas about Geographic Information Science B.A. and other majors visit Career & Internship Services.

UMD

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