For more information or an application contact:

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MA Track in Geographic Information Science (GIScience)

GIScience is the scientific discipline that studies data structures and computational techniques to capture, represent, process, and analyze geographic information. It helps manage and process locations and characteristics of spatial features, such as roads and land parcels. It also allows for visual display and spatial analysis of demographic, economic and other data. GIS is a fast-growing area with a broad range of applications in government agencies, nonprofit organizations and for profit companies.

This MA track focuses on the tools and techniques used in spatial analysis in both physical and human geography. Among the essential components of this concentration are geographical data collection, cartography, GIS, spatial statistics, remote sensing and aerial photo interpretation. Students in this track will have the opportunity to examine a wide range of timely questions using the most recent techniques and approaches.

Core Required Courses:
- Geog 500 - Geographical Theory
- Geog 502 * - Introduction to GIS for Planners
- Geog 503 - Programming in GIS
- Geog 532 - Remote Sensing of the Environment
- Geog 533 - Statistical Techniques for Geography
- Geog 544 - GIS and Spatial Analysis
One course from Urban Planning Track
One course from Environmental/Sustainability Track

Elective Courses:
- Geog 505 - Raster GIS
- Geog 536 - Land Use Analysis
- Geog 545 - Advanced Geographical Analysis
- Geog 546 - Environmental Hazards and Health
- Geog 550 - Web GIS
- Geog 555 - Advanced Remote Sensing
- Geog 560 - Census Geography and GIS
- Geog 566 - Advanced Spatial Statistics
- Geog 576 - Advanced Environmental Analysis
- Geog 577 - Retail Geography
- Geog 581 - Special Topics in Geography
- Geog 597 - Internship/Independent Study
- Geog 599 - Thesis Research
* Remedial course for 1st year students without GIS experience.