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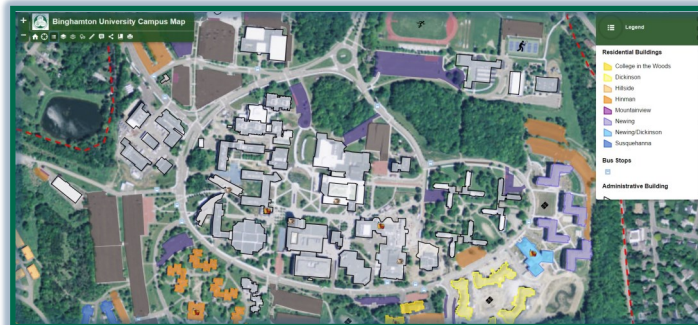
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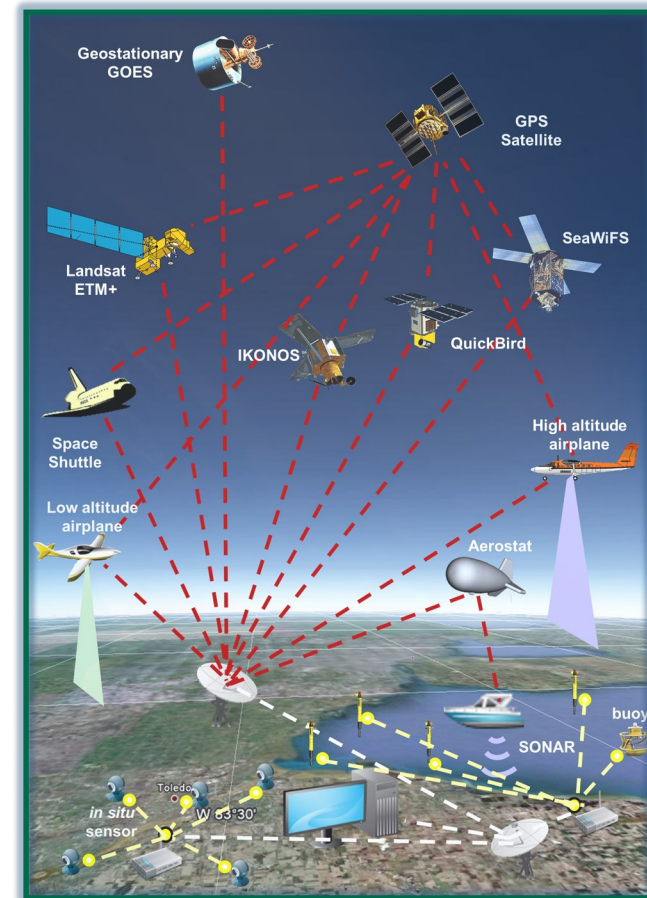
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Department of Geography

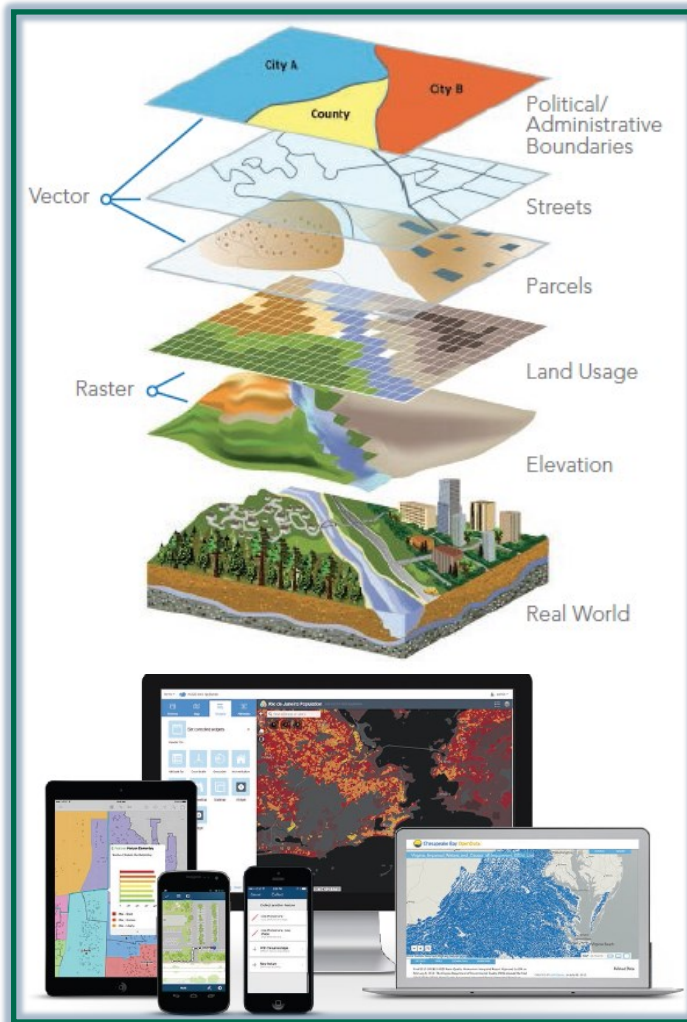
MA Program in Geographic Information Science (GIS)



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.

