

Introduction to Geographic Information Systems

Fall Quarter 2009

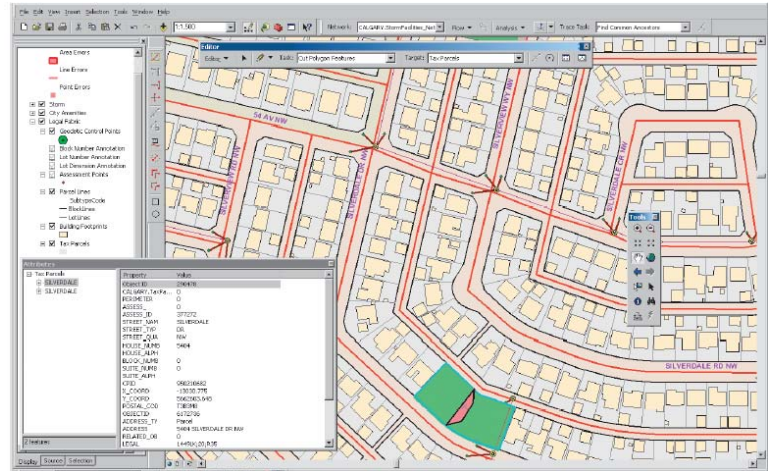
Course# 0693-401-70 (undergraduate) co-listed with 0693-701-70 (graduate)

Time/Location: TR 4-6pm, Building 9, Room 1130

Credits: 4

Description

This course introduces students to the world of **Geographic Information Systems (GIS)**. Course lectures, reading assignments, and practical lab experiences will cover a mix of conceptual, practical and technical GIS topics. Students should be comfortable working in PC-based computing environments. **No prerequisites.**

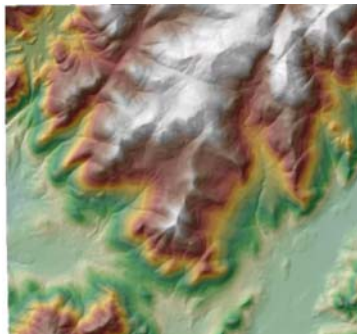


ESRI's ArcMap GIS software

Feature type	Graphic element		
	Shape	Color/hatch	Color/line
Point	Symbol	Line/border	Line/border
	Circle	Circle/border	Circle/border
	Star	Star/border	Star/border
Line	Midline/border	Midline/border	Midline/border
	Line	Line/border	Line/border
	Line	Line/border	Line/border
Area	Area	Area	Area
	Area	Area	Area
	Area	Area	Area

Kimberling et. al. 2009

Map Making – Visual Variables

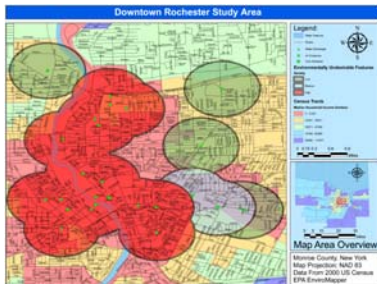


Analyzing Topography

Objectives

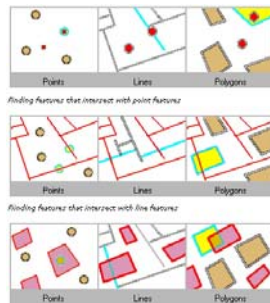
The overall course objective is for students to learn foundational concepts and skills on the use and application of Geographic Information Systems (GIS). This objective will be achieved through the following learning goals:

- Development of proficiency using desktop GIS software (ArcGIS 9.3).
- Understanding of geographic information principles.
- Understanding of select aspects of the art and science of map making.
- Skill development in geographic data management, creation, display, geo-processing, querying, and analysis.
- Insight into the broader world of geospatial technologies.



Map by Intro to GIS student Eric Foster

GIS Applications



Spatial Query

For more information contact:

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