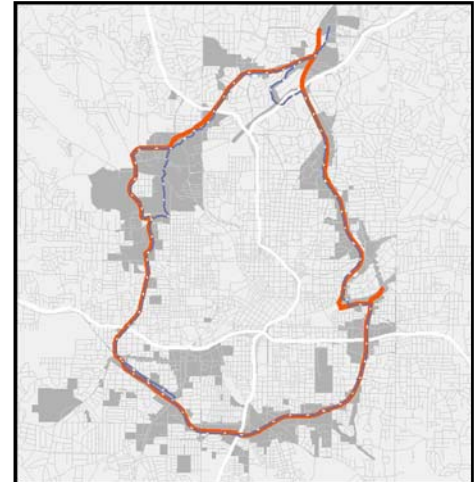
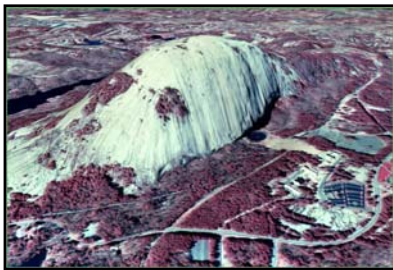


COURSE TITLE: Fundamentals of GIS
COURSE NUMBER: CP4510 | City Planning
TERM: Spring 2008
INSTRUCTOR: Giarrusso
SEATS: 30



Geographic Information Systems or GIS is a collection of computer hardware, software, and geographic data for capturing, managing, analyzing, and displaying all forms of geographically referenced information. Geographic Information Systems (GIS) are becoming a ubiquitous tool in any discipline that deals with spatial information. Planning agencies use GIS to monitor and direct land use. Governments use GIS as an information repository, cataloging and managing their spatial data. Engineers use GIS as analytical and predictive tools. Businesses use GIS for logistics and market analysis. Policy makers use GIS as a tool to help guide decision making. The number of disciplines that can utilize GIS is almost endless. What about your field of study?



CP4510, Introduction to Geographic Information Systems, is a course designed to introduce students to the fundamentals of GIS. CP4510 is a lecture/lab based course with an emphasis on applied learning. The lecture portion of the class focuses on the history of GIS, cartography, data sources and management techniques, vector and raster models, database development, and spatial analysis. The lab portion of the class is completely hands-on, where students use

ArcGIS software to apply the principles and methods discussed in the lectures towards solving real world problems. Using techniques discussed and demonstrated in class, students are required to complete four homework assignments, one in-class project, and one mid-term exam over the course of the semester.

After taking this class, students should be able to

1. Understand the basics of GIS and,
2. be able to apply techniques and computer skills learned in the course into their own field of study or profession

