Co-requisites

None

First Year Experience/Capstone Designation

This course DOES NOT satisfy the outcomes applicable for status as a FYE or Capstone.

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category

None

FLCC Values

Institutional Learning Outcomes Addressed by the Course

Vitality, Inquiry, Perseverance, and Interconnectedness

Course Learning Outcomes

Course Learning Outcomes

- 1. Describe fundamental GIS concepts, techniques and real-world applications.
- 2. Demonstrate basic skills necessary to utilize a Desktop GIS Package and a GPS unit.
- 3. Demonstrate basic cartographic skills to clearly communicate quantitative spatial relationships.
- 4. Independently apply skills (i.e. data acquisition and creation, file management, data importation, alignment, geospatial analysis, and use of cartographic principles) to a student-selected project site.

Outline of Topics Covered

- I. Introduction to ESRI ArcGIS software package.
- II. Identify data source, file types, and file management.
- III. Create cartographically appropriate maps.
- IV. Explore and download online Geographic Information Systems (GIS) data.
- V. Collect data using a Global Positioning System (GPS) unit.
- VI. Post-process field collected GPS data.
- VII. Import GPS data into a GIS environment.

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- VIII. Gain a conceptual understanding of coordinate systems, and apply this understanding to manipulate map projections.
- IX. Query and manage spatial and attribute data.
- X. Create and edit spatial data.
- XI. Work with geoprocessing tools (e.g. buffering, clipping, and merging).

Program Affiliation

This course is not required as a core course in any programs.

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