GEOGRAPHIC INFORMATION SYSTEMS TECHNOLOGY (GIST)

GIST 305 Cartography for GIS1 Credit
Introduction to maps as tools for communication and analysis of locationally-related information.

GIST 321 Introduction to Remote Sensing2 Credits
Fundamentals of remotely sensed data, with emphasis on processing and interpretation of Landsat satellite imagery. Two one-hour lectures and one two-hour laboratory per week.
Prerequisites: GIST 332/GIST 332L.
Corequisites: GIST 321L.

GIST 321L Introduction to Remote Sensing Laboratory1 Credit
Lab component required for GIST 321.
Prerequisites: GIST 332/GIST 332L.
Corequisites: GIST 321.
Fees: Yes.

GIST 332 Introduction to Geographic Information Systems2 Credits
Fundamentals of GIS and digital mapping, including basic GIS skills and an introduction to geospatial databases and analyses. Two one-hour lectures and one two-hour laboratory per week.
Prerequisites: GIST 305 or GEOG 131.
Corequisites: GIST 332L.

GIST 332L Introduction to Geographic Information Systems Laboratory1 Credit
Lab component required for GIST 332.
Prerequisites: GIST 305 or GEOG 131.
Corequisites: GIST 332.
Fees: Yes.

GIST 375 Global Positioning Systems for GIS2 Credits
GPS techniques and applications as they relate to GIS data collection.
Prerequisites: GIST 332/GIST 332L.
Corequisites: GIST 375L.

GIST 375L Global Positioning Systems for GIS Laboratory1 Credit
Lab component required for GIST 375.
Prerequisites: GIST 332/GIST 332L.
Corequisites: GIST 375.
Fees: Yes.

GIST 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

GIST 396L Topics Lab:1-2 Credits
Course may be taken 10 times for credit.

GIST 422 GIS Data Management and Editing2 Credits
Further exploration of GIS, involving creating, editing, and managing geospatial data and working with different types of GIS software. Two one-hour lectures and one two-hour laboratory per week.
Prerequisites: GIST 332/GIST 332L.
Corequisites: GIST 422L.

GIST 422L GIS Data Management and Editing Laboratory1 Credit
Lab component required for GIST 422.
Prerequisites: GIST 332/GIST 332L.
Corequisites: GIST 422.

GIST 432 Spatial Analysis and Modeling in GIS2 Credits
Exploration of GIS techniques and analysis with emphasis on raster-based GIS technology, processing, and geospatial analysis. Two one-hour lectures and one two-hour laboratory per week.
Prerequisites: GIST 332/GIST 332L.
Corequisites: GIST 432L.

GIST 432L Spatial Analysis and Modeling in GIS Laboratory1 Credit
Lab component required for GIST 432.
Prerequisites: GIST 332/GIST 332L.
Corequisites: GIST 432.
Fees: Yes.