Intermediate GIS Workshop for Geo-Spatial Intelligence: 2-Day Workshop

This 2-day workshop aims to teach utilization of GIS for the purpose of Geo-Spatial Intelligence application. This is a growing area of study with both national security and commercial applications. Its major goal is to facilitate geographic representation of socio-cultural data. Students will be introduced to the concept of and will have hands-on experience with preparing data, importing tabular and GPS data, editing and digitizing data for GIS analysis. Each student who successfully completes this course will have developed working knowledge and skills necessary to process GIS data and conduct simple spatial analysis. Must have beginner skills

WHO SHOULD ATTEND
> Computer scientists and engineers
> Geographers and cartographers
> Planners and environmental scientists
> Application specialists
> People interested in changing careers
> Law enforcement officers and administrators
> Crime analysts and coordinators
> Database and system administrators
> EMS and first response professionals
> Public health administrators
> Intelligence Analysts
> Geospatial Intelligence Analysts
> Social Scientists

Topics Covered
Module 1: Foundations of GIS Analysis
Introduction to ArcGIS
Introduction to geographic data
Introduction to spatial query (SQL)
Working with layers in ArcGIS
Creating maps layout
Creating maps without using a map template
Introduction to geo-database
Run a geoprocessing Tool

Module 2: Creating and Developing Data
Import tabular data from other software
Simple heads-up digitizing
Point and stream mode digitizing
Simple heads-up digitizing of an area feature
Add x,y data from GPS to a map

Module 3: Network Analysis
Find the shortest path
Find the fastest path
Interactively restricting the path of a trace
Restrict the path of a trace using a weight filter
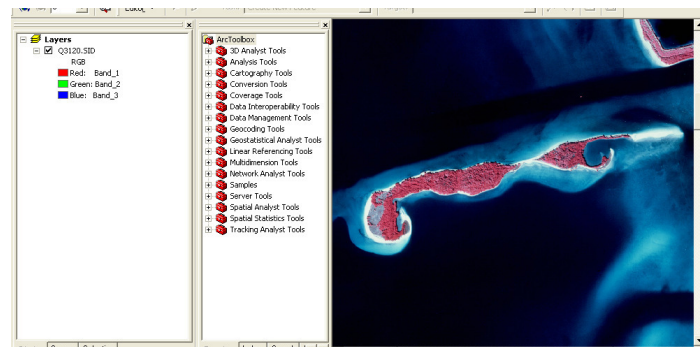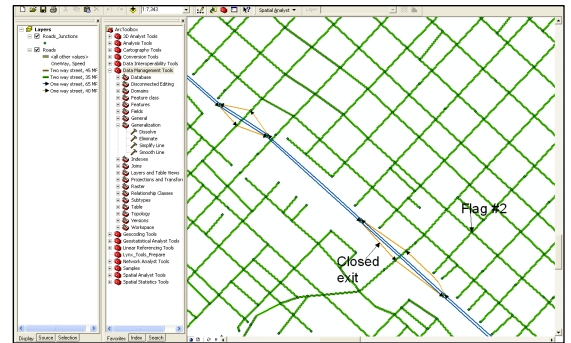
Contact: Dr. Barnali Dixon, Phone (727) 873-4863, E-mail: bdixon@mail.usf.edu