

Introduction to ArcGIS II

Overview

Extend what you learned in *Introduction to ArcGIS I* with further exploration of ArcMap and ArcCatalog. This course focuses on spatial analysis, automation of spatial and attribute data, editing, and advanced options for cartographic display. A portion of the class is reserved for carrying out an analysis project and applying many of the new skills and techniques learned in this course. Participants conduct queries, perform spatial analysis, and present their results in a hard-copy map.

Audience

This course is designed for those with fundamental knowledge of ArcGIS and geographic information systems in general.

Prerequisites and recommendations

This course is for those who have completed *Introduction to ArcGIS I*. If the prerequisite course is not completed, a participant should have comparable experience with ArcGIS before taking this course. The course also provides participants with the fundamental ArcGIS knowledge and experience needed to enroll in *Building Geodatabases I*.

Goals

- Perform spatial analysis
- Manage geographic data
- Perform geocoding
- Automate data through heads-up digitizing
- Convert data from other formats
- Edit spatial and attribute data
- Create and use metadata
- Produce high-quality maps and reports

Topics covered

Spatial analysis and data management: Buffers; Spatial overlays; Extracting features for analysis; Analytical methods and tools

Geocoding and display of locations from tabular data: Address geocoding; Display of points from x,y coordinates

Editing: Tools for creating and editing spatial data; Editing attribute data; Spatial adjustment

Data automation: Data sources; Digitizing; Data conversion

Project management: Database organization; File and directory naming conventions; Creating and using metadata

Geoprocessing: introduction to the Command Line window and the ModelBuilder interface

Cartography: Advanced symbology and labeling