

Intro to ArcGIS I: Mapping with GIS

Workshop Outline

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Lesson 1A: GIS Data Sets

- Using ArcCatalog
- Connecting to data folders
- Exploring spatial datasets
- Previewing data

Lesson 1B: Maps and layers

- Viewing data in ArcMap
- Working with the map display
- Setting layer properties
- Labeling features

Lesson 1C: Coordinate Systems

- Using the data view tools
- Finding and identifying features
- Measuring features

Lesson 2A: Layers and Data Frames

- Working with layers
- Working with data frames
- Labeling placement options

Lesson 2B: Maps based on Attributes

- Data types and map types
- Creating maps from attributes
- Managing legend details
- Classifying numeric data

Lesson 2C: Displaying Rasters

- Displaying thematic rasters
- Displaying image rasters

Lesson 3A: Creating Map Layouts

- Setting up the map page
- Creating a location map
- Using graphic text
- Dynamic labels and annotation

Lesson 3B: Finishing the layout

- Adding a legend and north arrow
- Placing scale bars
- Finalizing the layout

Lesson 4A: Working with Tables

- Viewing tables
- Using queries and statistics
- Summarizing tables

Lesson 4B: Summarizing and Joining

- Joining tables
- Summarizing tables
- Relating tables

Lesson 4C: Other Table Techniques

- Editing tables
- Calculating table values
- Using Excel tables
- Mapping x-y locations in tables

Lesson 5: Queries

- Using interactive selection
- Selecting by Attributes
- Selecting by Location

Lesson 6: Using GIS Servers

- ArcGIS Online
- NAIP 1-m imagery
- The National Map

Lesson 7: Using ESRI Data

- Accessing ESRI Data & Maps
- Creating your own layers
- Exporting and projecting data

Lesson 8: Clipping ESRI Data

- Clipping feature classes
- Extracting and projecting rasters