

# Intro to ArcGIS I: Mapping with GIS

## Outline (7<sup>th</sup> edition)

### Day 1: Understanding and assembling GIS data sets

#### Lesson 1A: Viewing maps and data

- Connecting to data folders
- Adding data to ArcMap
- Viewing the map
- Viewing attribute tables

Exercise 1

#### Lesson 1B: Layers and data frames

- Using map symbols
- Layers and layer files
- Working with data frames

Exercise 1B

#### Lesson 1C: Map projections

- Setting the data frame CS
- Using ArcGIS Online data
- Projection properties
- Understanding map distortion

Exercise 1C

#### Lesson 2A: Assembling GIS data

- Using ArcCatalog
- Creating and organizing data
- Exporting and projecting data

Exercise 2A

#### Lesson 2B: Assembling data in ArcMap

- Using the Catalog window
- Using ArcToolbox
- Exporting and projecting data

Exercise 2B

#### Lesson 2C: Using Other Data Sources

- ArcGIS Online
- NAIP 1-m imagery
- ESRI Data and Maps

Exercise 2C

Day 1 Practice Project

### Day 2: Visualizing and analyzing data

#### Lesson 4A: Symbols and Labels

- Exploring symbols
- Labeling features

Exercise 4A

#### Lesson 4B: Maps based on Attributes

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

Exercise 4B

#### Lesson 6A: Working with Tables

- Viewing tables
- Using queries and statistics
- Summarizing tables
- Joining tables

Exercise 6A

#### Lesson 6B: Manipulating Table Values

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

Exercise 6B

Day 2 Practice Project

### Day 3: Presenting your results

#### Lesson 7: Queries

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

Exercise 7

#### Lesson 5A: Setting up a layout

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

Exercise 5A

#### Lesson 5B: Finishing the layout

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

Exercise 5B

Day 3 Practice Project