



Intermediate GIS Concepts 10.1

Course ID#: 1700-202-10.x-W

Hours: 24

Course Content

Course Description:

ArcGIS has much more functionality than simple map display and navigation. It has many tools for collecting, creating and analyzing data. This 3 day class teaches finer skills for using ArcGIS. See how to connect information between tables and mark locations on the map. Practice managing data files, creating new data, and putting the data to work to generate answers to questions.

Target Student:

This course is for those who already know the basics of ArcGIS and want to expand their skills with the software and GIS in general.

Topics:

Module 1: GIS Data Sources

- Your Company's Data
- GIS Data on the Web
- Sharing Maps and Data

Module 2: Projection Basics

- Spatial Reference Issues
- Spatial Reference and ArcGIS
- Geographic Coordinate Systems
- Projected Coordinate Systems
- Setting the Spatial Reference of Data

Module 3: Bringing Data into ArcGIS

- Importing Data
- Georeferencing an Image

Module 4: Joins and Relates

- Using Tables in ArcMap
- Table Relationships
- Attribute Joins
- Relates
- Spatial Joins

Module 5: Creating GIS Data

- GIS Data Types and File Creation
- Setting Properties of GIS Data
- Database Design

Module 6: Beginner Editing

- Editing Workflow
- Feature Construction Tools
- Construction Methods
- Tips and Tricks

Module 7: Feature Templates

- Feature Templates
- Editing Attributes

Module 8: Advanced Editing

- Advanced Editing Tools
- Map Topology

Module 9: Geoprocessing Tools

- Solving Problems in GIS
- ArcToolbox
- Geoprocessing Options



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Module 10: Advanced Layouts

- Enhancing the Data Frame
- Data Driven Pages
- Export to PDF

Module 11: Labeling Features

- Labeling Basics
- Label Styles
- Label Expressions
- Label Classes

Module 12: ArcMap Tools

- Useful Tools and Toolbars
- Graphs and Reports