Introduction to GIS and GPS

Overview

This 2½-day course provides a conceptual overview and hands-on experience using ArcView GIS software and the Garmin GPS receiver. Participants are introduced to the ArcView graphical user interface (GUI) and use ArcView to create, edit, display, query, and analyze geographic and tabular data and create presentation-quality maps and charts.

Goals

- o   Display data in a GIS software
- o   Create and edit data
- o   Query a database
- o   Create maps for presentation
- o   Capture data using a GPS receiver
- o   Navigate to a location using a GPS receiver

Topics covered

ArcView overview: Capabilities and applications; Interacting with the ArcView GUI; Projects and documents; Using ArcView online help

ArcView views and themes: Creating views to display geographic data (themes); Creating themes from x, y coordinates; Setting a view's map projection; Manipulating the symbology and classification scheme for each theme; Labeling themes

ArcView tables: Creating an ArcView table from a variety of tabular data sources; Selecting from a table; Joining and linking multiple tables; Modifying the structure of a table; Editing values in a table; Creating a chart for presenting tabular data

Creating and editing themes: Using ArcView to create shapefiles; Adding and editing shapefile features; Updating attribute information.

Spatial query and analysis: Selecting features based on relationships between multiple themes; Merging theme features.

ArcView layouts: Creating a final map for presentation and printing; Combining views, tables, charts, images, north arrows, logos, and scale bars to create a final map.

Working with GPS data: Preparing a collection sheet, uploading and downloading data waypoints and creating a GIS layer.

Navigating with a GPS receiver

Overview of map projection

Prerequisites and recommendations

This course requires participants to have a working knowledge of **Windows™**.

Price*:

UVI Students	$400.00
UVI Staff	$600.00
All others	$750.00
Three or more fro the same organization	$700.00

*All prices include a $100.00 nonrefundable fee.