

GIS workshop outline and agenda

Day 1 (March 6th 1:00- 4:30)

1:00 Welcome and Introduction

1:10 Short Introduction to GIS

1:20 Geospatial Data: Three types of data and data models

Data resources

FIPS code, Hierarchical relationship of Geographical entities

Census Data (Summary files and ACS)

1:50 -2:15 Exercise -- census data download

2:15-2:30 Break

2:30 What is ArcGIS : scalable ArcGIS systems

3 applications-ArcMap, ArcCatalog, and ArcToolbox

2:40 Introduction to ArcMap (interface and toolbars)

2:50 Types of ArcGIS files (map documents, shape files, layer file, coverage, and geodatabase)

3:10-4:15 ArcMap Exercise

3:10 Table of contents and layer control and modify symbols

3:25 Navigation tools (zoom in/out, bookmarks, identify, find, select features, etc)

3:40 Projection

3:55 Layout design (layout tools and insert maps)

4:05 Exporting and printing maps

4:15 Questions and answers

Day 2 (March 13th 1:00- 4:30)

1:00 Quick recap of Day1 class topics

1:15 Introduction to ArcCatalog (browse/manage data and database, preview data and attributes, create/view metadata, ArcCatalog exercise-how to create geodatabase, how to link/use outside dataserver)

1:45 Associating Tables (joins and relates tables/ issues with data joins) and thematic map design (map symbology, labeling, and classification)

2:00-2:45 Exercise of data joining and thematic map design

2:45-3:00 Break

3:00 Introduction to ArcToolbox (various tools and introduce how to use ArcGIS desktop help)

3:15 – 4:00 Exercise – geoprocessing using ArcToolbox (buffer, clipping, dissolving, union and erase tool)

*address geocoding practice using ArcCatalog and ArcMap if time allowed (optional)

4:15 Questions and answers

(Last modified: 03/11/09)