

ISD731 Geographic Information System (GIS) Data Management 01 Introduction to ArcGIS

Course Details

- ◆ This is an elective course of the Information Systems Department (ISD)
- Students start with GIS concepts, continue to GIS use and finish by GIS data management
- A proceeding GIS course focusing on the use of this technology on the Web completes series of GIS technology courses in the ISD

1-2

Course Details

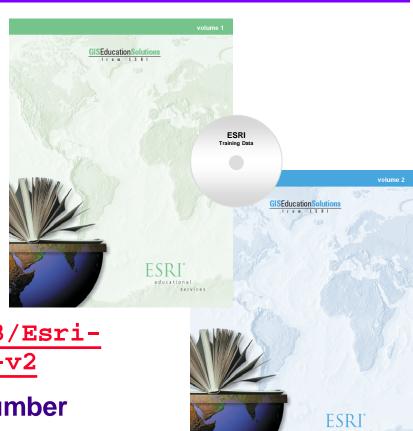
- Materials Used:
 - ♦ What is ArcGIS. by ESRI. 2004
 - ◆ Introduction to GIS Using ArcGIS Desktop 10. University of Maryland. 2012
 - ◆ Data Management in the GIS Environment. University of Maryland. 2012
 - ◆ Building Geodatabases Tutorial. by ESRI. 2006

Course Details

- ◆ Instructor (Spring 1395)
 - Pohanmal M Shuaib Zarinkhail
 - *szarinkhail@ku.edu.af or zarinkhail@gmail.com
- ◆ Schedule:
 - ◆ Saturdays & Mondays (Theory & Practical)
- ◆ Classroom:
 - ◆ Class Room #2 and Lab #2 in the second floor, Computer Science Building, Kabul University

Course materials

- ◆ Books
 - **◆ Lecture**
 - **◆ Exercise**
- ◆ CDs
 - ◆ Course data
- Online course evaluation
 - http://surveys2.esri.com/s3/Esri-Training-Course-Evaluation-v2
 - ◆ Requires Course Identification Number
- Software evaluation
 - ◆ E-mail enhancement requests to product teams
 - desktop_comments@esri.com



Course objectives

- ◆ Display spatial and tabular data
- Query data using
 - Attributes
 - **♦** Spatial relationships
- ◆ Edit spatial and attribute data
- Produce maps, reports, and graphs
- **♦ Ask questions and participate in discussions**

Upon Completion of this Course Students will:

- Describe what GIS is
- ◆ Know the major GIS software available
- Understand where to find more information
- Explain the components and functionality of a GIS
- Understand the differences between GIS and other information systems

Upon Completion of this Course Students will:

- Understand the nature of geographic information and explain how it is stored in a computer
- Know map projection and the types of GIS data structure
- ◆ Store, manage and use GIS data
- Conduct simple spatial analysis using GIS software
- Design and complete a GIS project from start to finish

Course timeline

Day 1

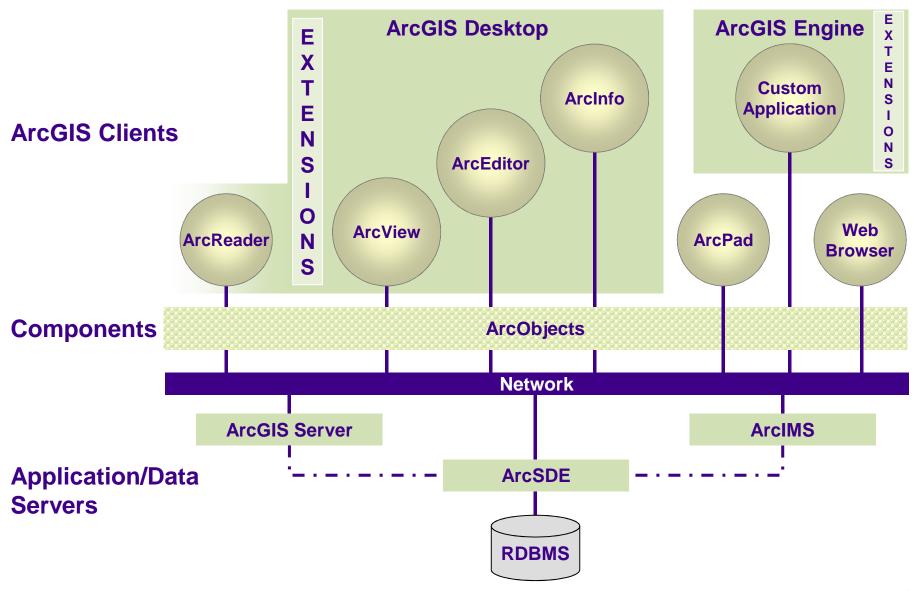
- **♦ Explore GIS concepts**
- **◆ Display data**
- ◆ Query your database
- **♦ Work with spatial data**

Day 2

- ♦ Work with tables
- **◆ Edit data**
- Work with georeferenced data
- ◆ Present data



What is ArcGIS?



Learning paths

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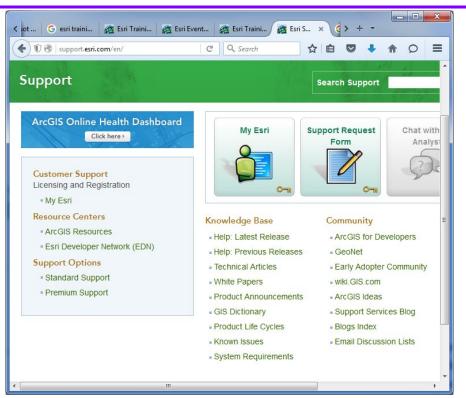
http://www.esri.com/training/main/training-catalog ◆ Learning Guide **ArcGIS** ◆ Learning paths organized Desktop by software and topic **♦ Learning options** ArcSDE ◆ Instructor-led courses **ArcIMS** Geodatabase ◆ Virtual Campus courses ◆ Training seminars **ArcGIS** Customizing/ Extensions ♦ Web workshops **Programming**

Software support resources

 ESRI Support Center a gateway to resources

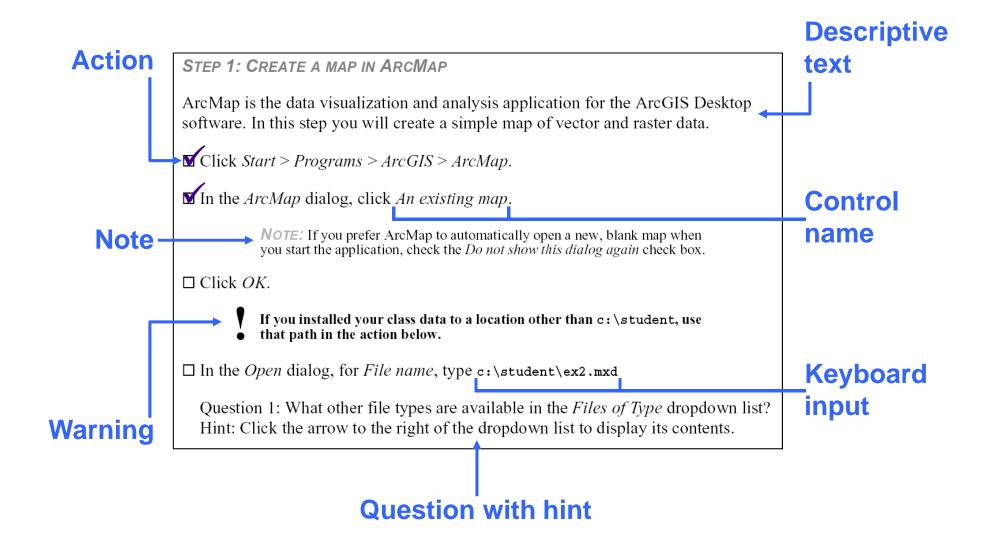
http://support.esri.com

- Knowledge Base
 - ◆ Technical articles
 - White papers
 - System requirements
- Downloads
 - Patches and service packs
 - Data models
 - ArcScripts
- User Forums
 - **♦** Discussion groups
 - ◆ E-mail lists



- For Developers
 - Developer resources
- ◆ Request ESRI Technical Support
 - Available to support subscribers

Exercise typographic conventions



Exercise 1 overview

- ◆ Install the ArcGIS software to your computer
- Install the class database:
 - ◆ Create a folder named "Student" in drive C of your computer
 - ♦ Copy data to:
 - C:\Student\igis1\