

Introduction to ArcGIS 9.3

Geography 119A, Spring 2010

Class Time: January 30 and February 20, Saturday 8:00 am- 4:30pm

Location: Butte 501

Office hour: 4:30-5:00 after class - Butte 501, or by appointment

Instructor: Chris Lewis **Contact:** Email Address: cclewis@csuchico.edu phone: 898-4774

Course Description

ESRI's ArcGIS software is used by many federal, state and local agencies, as well as educational institutions, private industries and businesses, throughout the world. This course provides an overview of the software capabilities and functionality such as how to query a GIS database, manipulate tabular data, edit spatial and attribute data, and present data clearly and efficiently using maps and charts. Participants learn how to use ArcGIS™ Applications: ArcMap™, and ArcCatalog™.

Prerequisites

Familiarity with a “windows” type computer environment & file maintenance

Course objectives: After completing this course students will:

- understand what GIS is
- understand basic GIS concepts
- be able to symbolize and label maps
- be able to create and edit spatial data
- be able to perform a spatial and attribute query
- know how to change data from one projection to another
- be able to use ArcGIS's presentation tools to create maps with associated map elements

Required Text

“GIS Tutorial” Updated for ArcGIS 9.3, by Wilpen L. Gorr and Kristen S. Kurland, ESRI Press 2009. Be sure you have the latest edition

Assignments

- GIS assignments build upon each other, so it is important to be up to date on your assignments.
- Late homework is automatically reduced by 20%. No homework accepted after March 1.
- Practice is the only way that you will really learn GIS, so in between classes explore/use the software.

Grading

In class Tutorials (1-6)	60% (Most of this will be completed in class)
Homework assignment handed out)	25% (exercise 3-2, page 105-106 (rubric for grading will be handed out)
Quiz	15%

Incomplete given for serious and compelling reasons only, at the discretion of the instructor.

IMPORTANT: No drops or adds allowed after the Census date, February 19.

Saturday 1	Topic
8:00-8:20	Course Overview/Introductions
8:20-9:00	Lecture 1: Introduction to GIS, ArcGIS
9:00-10:00	<i>Tutorial 1</i>
10:00-10:15	BREAK
10:15-11:15	Lecture 2: Map Design
11:15-noon	<i>Tutorial 2</i>
Noon-1:00	LUNCH
1:00-1:30	Lecture 3: Output
1:30-2:30	<i>Tutorial 3</i>
2:30-3:00	Lecture 4: Map Projections/Coordinate Systems
3:00-3:15	BREAK
3:15-4:00	<i>Tutorial 4</i>
4:00-4:30	Practice Hands-on Quiz

Homework: Complete Tutorials through 4.

Only required to complete one assignment: 3-2- due at beginning of next class.

Saturday 2	Topic
8:00-8:15	Turn-in Homework
8:15-9:00	<i>Activity 4 – complete - review</i>
10:00-10:15	BREAK
10:15-10:45	Lecture 5: Downloading/Importing Spatial Data
10:45-12:00	<i>Activity 5</i>
Noon-1:00	LUNCH
1:00-1:30	<i>Activity 5 (continued)</i>
1:30-2:30	Hands-on Quiz
2:30-3:00	Lecture 6: Digitizing <i>Activity 6</i>
3:00-3:15	BREAK
3:15-4:30	<i>Activity 6</i>