

Advanced ArcGIS 9.3

Geography 119C, Spring 2009

Class Time: March 28 and April 18, Saturday 8:00 am- 4:30pm

Location: Butte 501

Office hour: 4:30-5:00 after class - Butte 501, TTh, 9:30-10:16, Feb. 3-March 12. - Butte 626, or by appointment

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

Course Description

This class will use a number of learning activities to practice skills from the introductory and intermediate ArcGIS classes using ArcGIS 9.3 and several extensions. Continued focus on determining workflow and analysis steps and documentation. Students will work through instructor activities and also a relatively short project (approx. 4 hrs.) will be assigned. Students who have instructor's permission may substitute an appropriate project of their own for the assigned project. Students will increase in problem solving skills as they work through projects with fewer step-by-step instructions. Class will be divided into approx. 1/4 demonstration, 3/4 hands-on.

Prerequisites

119A and 119B or equivalent

Course objectives

After this class students will be able to:

- Organize a project file structure and plan a project in ArcGIS.
- With fewer instructions work through a typical small GIS project on their own
- Complete a layout with a main map and locator map and all basic map elements.
- Apply cartographic principles to your map layouts.
- Be able to create a workflow model in modelbuilder.
- Download data from various sources and project when necessary to have all data in the same projection in ArcMap.
- Create elevation profiles in 3-D Analyst.

Required Text/Materials

- Designing Better Maps: A Guide for GIS Users, by Cynthia Brewer, ESRI Press - recommended.
- Designed Maps: A Sourcebook for GIS Users, by Cynthia Brewer, ESRI Press - recommended. Students have their own portable back-up USB device.
- Students will be provided with pdf's of class exercise that they will be responsible to print out for second day of class.

Assignments/Exercises

This class will require some time outside of class to complete. Therefore, you will need to plan some time in the lab during the week to complete or review assignments. The open lab schedule is on the wall by the door.

Grading

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| • ModelBuilder Activity | 150 points |
| • Data Download/Projections/Profile Activity | 250 points |
| • Project Management & Workflow activityA | 300 points |
| • <u>Project Management & Workflow Project</u> | <u>300 points</u> |
| • TOTAL CLASS POINTS | 1000 points |

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