



Continuing and Professional Education

COURSE SYLLABUS AND OUTLINE

INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

Learn about basic GIS terms, available systems, data sources and GIS policy decisions. This class contains lectures and experience in ArcGIS, which leads to a working knowledge of GIS and an understanding of the planning design for which GIS is used.

Goals and expectations

This is an introductory level course for students new to the field of Geographic Information Systems. Course objectives include:

- Discuss Geographic Information Systems (GIS) concepts
- Become familiar with the ArcGIS interface and operation
- Be able to use ArcMap, ArcCatalog, and ArcToolbox
- Learn how to use GIS for analysis
- Effectively present data in map layouts
- Provide opportunities to ask questions and participate

Technical requirements

Computer lab and software are provided to students for the duration of the course.

WHEN

TBD

WHERE

UC Davis

INSTRUCTOR CONTACT

TBD

CPE PROGRAM ADVISOR

Ruth Cervantes
recervantes@ucdavis.edu

Visit our website for detailed description and quarterly schedule.

cpe.ucdavis.edu/gis

Attendance

You are strongly encouraged to attend every class and to keep up with the work in class.

Class Schedule

Section 1

- Introduction to GIS and ArcGIS

Section 2

- Data types and Working with ArcCatalog
- Creating an ArcGIS map
- Events, Coordinate Systems & ArcToolbox
- Selection Methods and Selecting Data
- Creating and Using Layer Files
- Working with Symbology
- Working with labels and Annotation
- Working with Tables
- Data Output - Reports, Graphs and Layouts

Section Three

- Geoprocessing and Analysis in ArcGIS
- Editing Features in ArcGIS
- Using Image Data in ArcGIS\Creating a Feature Class
- Georeferencing Images in ArcGIS
- Working with Excel, Displaying X/Y Data

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