

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

John Schaeffer

PROGRAM ADVISOR

Ruth Cervantes

Visit our website for detailed description and quarterly schedule.

extension.ucdavis.edu/gis

Attendance

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

Course Outline

- 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 3
 - 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

COURSE SYLLABUS AND OUTLINE

CEQA: A STEP-BY-STEP APPROACH

Visit our website for detailed description and quarterly schedule.

extension.ucdavis.edu/gis

Incomplete Work

You may receive an interim grade of “Incomplete” (I) if your work is of passing quality, but a small portion of the course requirements is incomplete for good cause (e.g. illness or other serious problem).

- It is your responsibility to discuss with the instructor the possibility of receiving an “I” grade as opposed to a non-passing grade.
- If you receive an “Incomplete” grade, you may earn a passing grade and receive unit credit by completing the remaining coursework satisfactorily.
- The “I” grade can only be replaced when the instructor submits a final grade as determined by the instructor.
- For this class, you will have a maximum of 30 days after the end of the course to submit any missing coursework and receive a passing grade, otherwise the “I” grade will be replaced with “WD” (indicating withdrawn, no academic credit).

Student Behavior

You are expected to be honest and fair in all your academic work. If you are not, you may be disciplined. You should be familiar with and adhere to:

- The University of California Standards of Conduct for Students and
- The UC Davis Academic Code of Conduct at <http://sja.ucdavis.edu>

Special Requirements

If you have any learning disabilities, let me and your UCDE Program Representative know immediately so that we can accommodate them. If you are unable to sit for long periods of time, you may stand in the back of the room. I do not mind if you eat or drink during class, as long as it does not become a distraction.

COURSE SYLLABUS AND OUTLINE

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extension.ucdavis.edu/landuse