

Geospatial Analysis & Technology

This is a very exciting time for GIS and GIS professionals. We are seeing lots of interest, growth and adoption.

Jack Dangermond
ESRI Founder

Cell phones strapped to elephants in Kenya send signals to the wildlife conservation group to let them know they have not wandered into trouble. In Sacramento, Ca., thieves steal a "bait" car that activates a GPS system as soon as the car is stolen. The bad boys are busted immediately. Geospatial technology is being used in infinite ways to improve our world.

Our certificate programs in GPS and GIS continue to evolve, too. That's because our classes are taught by the best and brightest GIS and GPS experts. Our programs are offered in a variety of formats, including a summer intensive program that allows you to earn a GIS certificate in less than two months.

For certificate programs and contact information, see page 76.

Software Training

Introduction to ArcGIS

ArcGIS's advanced display, analysis and presentation mapping functions including ArcMap, ArcCatalog and ArcToolbox.

Note: ArcGIS Version 9.3

Lisa A. Pierce, M.A., Research Associate, Water Resources Institute, California State University, San Bernardino

Credit: 1.5 CEUs

Date/Time: Sat.-Sun. 8 a.m.-5 p.m., Apr. 4-5 (2 meetings)

Location: UCR: Extension Center, 1200 University Ave.

Fee: \$495 (includes text and parking)

Earth Science 802.2

Reg #084-SCG-G04

Geographic Information Systems

GIS in Land Use Planning

The development and use of information systems for private and public sector planning professionals are examined using case studies from various Southern California GIS and land use planning projects.

Elective for Certificate in Land Use and Environmental Planning

Elective for Certificate in Geographic Information Systems

Doug Mende, M.B.A., GIS Project Analyst, Psomas, Riverside

Credit: 1.5 units

Date/Time: Fri. & Sat. 8 a.m.-5 p.m., Mar. 13 & 14 (2 meetings)

Location: UCR: Extension Center, 1200 University Ave.

Fee: \$395 (includes parking)

Earth Science X451.6

Reg #083-SCG-G10

Introduction to Photogrammetry

Introduction to the use of aerial photos in mapping and GIS. Topics include attainable accuracies from photo measurements, softcopy photogrammetry and digital orthophotos, close range applications, the mapping production line from photo to map, and basic flight planning. Includes a field visit to a photogrammetric mapping organization.

Elective for Certificate in Geographic Information Systems

Francelina A. Neto, Professor, Department of Civil Engineering, California State Polytechnic University, Pomona

Credit: 1.5 units

Date/Time: Mon. 6-9 p.m., Mar. 30-Apr. 27 (5 meetings)

Location: UCR: Extension Center, 1200 University Ave.

Fee: \$395 (includes materials)

Earth Science X453.5

Reg #084-SCG-G14

GIS Summer School

July 6-August 27, 2009

Earn the Certificate in GIS in two months.

- 8-week intensive program
- Comprehensive
- Learn from GIS professionals
- Gain a competitive edge
- Award winning program

For application and more information, visit www.extension.ucr.edu/gis or phone 951-827-5804.



Online GIS Courses

The following courses are offered in cooperation with the ESRI Virtual Campus. Registration codes are provided upon enrollment. Visit campus.esri.com for more details about these courses. Note: PC with Internet access and appropriate software required.

- Learning ArcGIS 9.x Desktop (for 9.2 or 9.3): A Self-Paced Online Course, Reg #091-SCG-G32 (2.4 CEU, \$203)
- Creating, Editing and Managing Geodatabases for ArcGIS 9: A Self-Paced Online Course, Reg #091-SCG-G33 (1.2 CEU, \$87)
- Geoprocessing With ArcGIS Desktop: A Self-Paced Online Course, Reg #091-SCG-G34 (1.5 CEU, \$116)
- Learning ArcGIS Spatial Analyst 9: A Self-Paced Online Course, Reg #091-SCG-G35 (1.5 CEU, \$145)
- Learning ArcGIS 3D Analyst 9: A Self-Paced Online Course, Reg #091-SCG-G36 (2.1 CEU, \$174)
- Customizing ArcGIS 9: A Self-Paced Online Course, Reg #091-SCG-G37 (.6 CEU, \$58)
- Turning Data Into Information Using ArcGIS 9: A Self-Paced Online Course, Reg #091-SCG-G40 (1.5 CEU, \$145)
- Understanding Map Projections and Coordinate Systems: A Self-Paced Online Course, Reg #091-SCG-G42 (1.8 CEU, \$145)
- Learning Visual Basic for Applications for New ArcGIS Developers: A Self-Paced Online Course, Reg #091-SCG-G43 (1.5 CEU, \$145)

For more information: (951) 827-5804 or sciences@ucx.ucr.edu.

GIS Applications Lab

ArcGIS tools to develop and implement GIS projects from conception to finished product including database creation, data analysis, Geodatabase concepts and cartography. Databases from local agencies are integrated into the course to provide real-world applications.

Prerequisite: ArcGIS experience or Ert. 802.2, Introduction to ArcGIS.

Required for Certificate in Geographic Information Systems

Thomas R. Corrigan, M.P.A., Public Utilities Department, city of Riverside. In the department's water resources section, Corrigan provides geospatial support and analyses involving the city's water supply and quality.

Credit: 3 units

Date/Time: Tues. 6-9:30 p.m., Apr. 7-May 26 (8 meetings)

Location: UCR: Extension Center, 1200 University Ave.

Fee: \$475

Earth Science X453.4

Reg #084-SCG-G21

GIS Database Design

Introduces the goals and industry tools available for planning and implementing the conceptual design phase, logical design phase and physical design phase (using ESRI's Geodatabase). Geodatabase architecture and a variety of geodatabase behaviors, such as domains, subtypes, annotation, topology and relationship classes.

Prerequisite: Ert. X450, Practical Approaches to Implementing GIS; and Ert. 802.2, Introduction to ArcGIS.

Required for Certificate in Geographic Information Systems

Colin J. Childs, B.A., Environmental Systems Research Institute, Redlands

Credit: 3 units

Date/Time: Thurs. 6-10 p.m., Apr. 30-Jun. 11 (7 meetings)

Location: UCR: Extension Center, 1200 University Ave.

Fee: \$475

Earth Science X454.5

Reg #084-SCG-G13

GIS Career Workshop

Information about employment in the GIS field, types of GIS jobs available, resume writing workshops, and mock interviews. Benefits those in the GIS field looking to update their resumes as well as those new to the field or seeking a career change.

Note: Please bring your resume or curriculum vitae to class.

John Josenhans, GIS Analyst, Tetra Tech, Santa Ana

Date/Time: Thurs. 6-8 p.m., Jun. 18 (1 meeting)

Location: UCR: Extension Center, 1200 University Ave.

Fee: \$55

Earth Science 803.6

Reg #084-SCG-G25

Also of interest

Introduction to ArcGIS

See page 75.

Global Positioning System Technology

GPS Processing and Analysis

GPS post-survey data collection and processing, and data analysis and evaluation. Includes small field surveys where data is collected, downloaded, processed, analyzed and evaluated including multipath error technique and the least squares method.

Prerequisite: Ert. X440.3, GPS Techniques: RTK, CORS and DGPS, or GPS experience.

Required for Certificate in Global Positioning System Technology

James Paul Schell, P.L.S., Senior Associate, Surveying, RBF Consulting, Irvine

Credit: 3.5 units

Date/Time: Wed. 6-9:30 p.m., Apr. 1-Jun. 3 (10 meetings)

Location: UCR: Extension Center, 1200 University Ave.

Fee: \$485

Earth Science X440.8

Reg #084-SCG-G12

Department Contacts:

Jennifer Campbell

Program Coordinator

(951) 827-5804

sciences@ucx.ucr.edu

To Enroll: See page 116.

Certificates in:

Geographic Information Systems

Global Positioning System Technology

Contact: Jan Crump

(951) 827-5804

sciences@ucx.ucr.edu

Students enrolled in a course using Blackboard or Moodle need to set up a *NetID* to access their courses. See page 34. Visit our Web site at www.extension.ucr.edu/online/netid_steps.html

Textbooks

Go to extension.ucr.edu for course textbook requirements.