

Introduction to ArcGIS™ I 9.x



A Continuing Education Short Course
taught by

Buren B. DeFee II, Ph.D.
ESRI Authorized Instructor

December 19-20, 2005
Harlingen, TX

Sponsored by the
Arkansas Forest Resources Center
University of Arkansas System
Agricultural Experiment Station
Cooperative Extension Service
School of Forest Resources, UA-M
Spatial Analysis Laboratory (SAL)
<http://sal.uamont.edu>

UAM Forestry Continuing Education
Arkansas Forest Resources Center
University of Arkansas at Monticello
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Monticello, AR 71656

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ABOUT THE COURSE

This two-day course introduces students to ArcGIS and provides the foundation for becoming a successful ArcView 9.x, ArcEditor 9.x, or ArcInfo 9.x user. Participants learn how to use ArcMap, ArcCatalog, and ArcToolbox and explore how these applications work together to provide a complete GIS software solution. The course covers fundamental GIS concepts as well as how to create, edit, and work with georeferenced spatial data. Attendees learn how to manipulate tabular data, query a GIS database, and present data clearly and efficiently using maps and charts. The course will be taught at the using the Spatial Analysis mobile GIS Laboratory. This mobile laboratory provides the SAL the ability to teach workshops and conduct research any where in the world.

THE INSTRUCTOR

Dr. Buren DeFee (defee@uamont.edu) has been **involved in GIS and remote sensing for more than 10 years**. He has been using ArcView® and ArcGIS™ since its introduction and is an ESRI authorized instructor for ArcGIS I. He is currently a Professor in the Spatial Information Systems Program at the School of Forest Resources at the University of Arkansas at Monticello. He teaches introductory courses in GIS, GPS and Remote Sensing as well as advanced GIS courses in Network Analysis, ArcSDE and ArcIMS. His education and training covers a wide range of disciplines, including marine biology, land development, and urban and regional science. He has implemented GIS for timber management, monitoring urban growth, open-space preservation, stormwater management, and to study agricultural change.

He received his B.S. in Marine Biology from Texas A&M University at Galveston, M.S. in Land Development from Texas A&M University and Ph.D. in Urban and Regional Science from Texas A&M University, College Station.

Location & Lodging

The workshop will be held at the Holiday Inn Express, 501 South “P” Street, Harlingen, TX 78550. Students who decide to stay overnight are responsible for making their own reservations. The class will be held in the meeting room.

Equipment & Supplies

The University of Arkansas at Monticello will provide access to the Mobile Spatial Analysis Laboratory (SAL). The computers in the Mobile SAL will be loaded with the software and data necessary to complete the coursework. The instructor will also supply an additional packet with materials which answer many common questions about map design, the field calculator, common tasks, data formats and ArcGIS products. Student should bring a notepad and pencil.

Program Agenda

December 19 & 20, 2005

Breaks will be taken at midmorning and midafternoon

Monday

- 8:00 A.M. Registration
- 8:30 **Introduction & Exploring GIS Concepts**
- What is a GIS?
 - Representing vector features
 - Overview of ArcGIS
 - ArcCatalog
 - ArcMap
 - ArcToolbox
- 10:00 Break
- 10:20 **Displaying data**
- The ArcMap interface
 - Layers, data frames, and maps
 - Managing the Table of Contents
 - Layer symbology in ArcMap
 - Changing symbol properties
 - Creating a definition query
- Noon Lunch on your own
- 1:00 P.M. **Querying your database**
- Map tips and hyperlinks
 - Selection methods
 - Location selection methods
 - Calculating summary statistics
- 2:40 Break
- 3:00 **Working with spatial data**
- Introducing feature classes
 - Data format: Geodatabase
 - Using ArcCatalog

- CAD Files
- Raster Files
- The Metadata tab
- Introducing metadata

4:30 Adjourn

Tuesday

- 8:00 A.M. **Working with tables**
- Tabular data field types
 - ArcGIS tabular formats
 - Joins and relates
 - The ArcMap Report Writer
- 10:00 Break
- 10:20 **Editing data**
- Simple editing functions
 - Working with sketches
 - Editing vertices
 - Field calculator
- Noon Lunch on your own
- 1:00 **Working with Georeferenced Data**
- Types of projections
 - Coordinate system components
 - ArcMap and projections
- 2:00 Break
- 2:20 **Presenting data**
- Map and design objectives
 - Creating maps in ArcMap
 - Incorporating a reference system
 - Creating and using map templates
- 4:30 Adjourn

ENROLLEMENT INFORMATION

Registration: The registration fee is \$600 and includes **instructional materials**. There is a course limit of 15 students based on first come, first served. **Please preregister by December 9th, 2005.**

Preregistration must be accompanied by a check or purchase order unless you state that your purchase order is being processed and mailed by your organization's business office. **Make checks payable to UAM Forestry Continuing Education.**

Cancellation policy:

Call 870-460-1052 at least 15 days prior to the short course for a full refund. Partial refunds may be granted for later cancellation, none for failure to attend with no notification. Substitution of personnel is recommended in lieu of cancellation. If the course is canceled for any reason, registration fees will be fully refunded. We cannot, however, be responsible for any cancellation charges by airlines, hotels or travel agents.

For further information please contact:

Mr. Carol Guffey

Extension Specialist - Forestry
Continuing Education Program
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The University of Arkansas System offers its programs to all eligible persons regardless of Race, color, national origin, sex, age, or handicap, and is an Equal Opportunity Employer.

Registration

Introduction to ArcGIS™ I Short Course
Detach and mail pre-registration form

Name

Organization

Street Address

City

State

Zip

Phone

E-mail

Name to be printed on name tag

Registration fee enclosed . . . \$600

Purchase order is being processed

