

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Introduction to ArcGIS

November 19-20, 2012

Instructor: Pete Bettinger, Ph.D.  
at the Warnell School, room 4-419 (the computer lab)



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

### Purpose and Objectives

In a study of recent graduates of the Warnell School of Forestry and Natural Resources, we found that the use of GIS by natural resource managers was evenly split between two software products: ArcView 3.x and ArcGIS 9.x. While both of these are developed and marketed by the same company (ESRI), ArcGIS is becoming the standard tool for management of GIS data in natural resource management organizations. Successful natural resource managers need the confidence to be able to communicate to others their GIS needs and to perform basic GIS processes.

#### **This one-and-a-half-day course:**

- Introduces the basic vector-based features of ArcGIS
- Teaches techniques for addressing a number of basic natural resource management applications

#### **Upon completion of this course, you should be able to:**

- Perform many of the basic GIS tasks used by natural resource managers (query, edit, overlay, etc.)
- Create management-related maps that effectively display critical information.

### Who Should Attend?

Natural resource management professionals who have taken a basic GIS course or have some familiarity with GIS and have an interest in learning more about how to use GIS to support natural resource management. Upper-level managers who would like to be able to conduct basic GIS analysis as well as field personnel who would like to use GIS tools to analyze field data should find the course useful.

### Format

The course follows a direct laboratory and case study format. Most of the material will be presented in a step-by-step manner, so that the class can follow the directions provided by the instructor and simultaneously use them on individual computers in a computer lab. The class emphasizes the use of ArcGIS. Some handouts will be provided to summarize the material presented.

### Instructor

Pete Bettinger is a professor in the Warnell School of Forestry and Natural Resources. He has more than 20 years of operating, teaching and research experience in forestry and natural resources, including roles with the U.S. Forest Service, several forest product companies, and Oregon State University. Bettinger has taught several courses on forest measurements, forest planning, and harvest scheduling, as well as GIS applications in natural resources management. In 2004, McGraw-Hill published his book *Geographic Information Systems: Applications in Forestry and Natural Resources Management*. Bettinger earned BS and MS degrees from Virginia Tech, and a PhD from Oregon State University.

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Introduction to ArcGIS

November 19-20, 2012

Instructor: Pete Bettinger, Ph.D.

at the Warnell School, room 4-419 (the computer lab)



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

### Registration Fee

The fee for this course is \$360, which includes lunch, refreshment breaks, and instructional materials. You can register online for the course here:

<http://conted.warnell.uga.edu/courses/intro-arcgis>

### Continuing Education Credits

- 12.0 Continuing Forestry Education (CFE) hours– Category 1 (approved)
- 12.0 Continuing Logger Education hours (CLE) – Environmental (approved)
- 12.0 GA Real Estate Agent/Appraiser credits (approved)

*Full Attendance is Mandatory to Receive Credit.*

### Course Itinerary

November 19, 2012

| Time      | Event                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------|
| 7:45 a.m. | Registration                                                                                                     |
| 8:00      | Basic maneuvering within the program, opening shapefiles and changing their appearance, viewing and editing data |
| 10:00     | Refreshment Break                                                                                                |
| 10:15     | Examining layer properties making a map with layout view                                                         |
| 12:15     | Lunch                                                                                                            |
| 1:00 p.m. | Working with the attribute data, querying processes                                                              |
| 2:45      | Buffering, clipping, erasing with vector data                                                                    |
| 3:00      | Refreshment Break                                                                                                |
| 3:15      | Buffering, clipping, erasing with vector data (continued)                                                        |
| 5:15      | Adjourn                                                                                                          |

November 20, 2012

| Time       | Event                                         |
|------------|-----------------------------------------------|
| 8:00 a.m.  | Overlay analysis using vector data            |
| 10:00      | Break                                         |
| 10:15      | Forestry and wildlife management applications |
| 12:30 p.m. | Adjourn                                       |

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Introduction to ArcGIS

November 19-20, 2012

Instructor: Pete Bettinger, Ph.D.

at the Warnell School, room 4-419 (the computer lab)



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

### Registration Form

Name - please print \_\_\_\_\_

Preferred name for badge \_\_\_\_\_

Birth-date (for transcript retrieval) \_\_\_\_\_

Business mailing address or check here if home address ☐ \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

County, if Georgia \_\_\_\_\_

Home phone \_\_\_\_\_

Work phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail address ☐ Please send me e-mail about Warnell Continuing Education programs.

position \_\_\_\_\_

organization/employer \_\_\_\_\_

*By registering for this event I agree to comply with all event and lodging cancellation policies.*

### Introduction to ArcGIS

November 19-20, 2012

Registration by November 18, 2012:.....\$360.00

Optional 12.0 GA Real Estate Agent/Appraiser credits:.....\$50.00

Enclosed is a check # \_\_\_\_\_

**(payable to Warnell School of Forestry and Natural Resources)**

**Your registration will not be processed until payment is received.**

### Cancellations:

**Notice must be received by 5:00 p.m. November 5, 2012 to receive a refund. Call Ingvar Elle at 706-583-0566.**

Mail payment to:

Attn: Ingvar Elle

Warnell School of Forestry & Natural Resources

The University of Georgia

Athens, Georgia 30602

### Parking and Directions

A visitor parking deck is located just north of the Georgia Center. Parking is \$10.00 per day.

For a map and directions go to:

[http://www.warnell.uga.edu/h/aboutWSFR/directions/index\\_html](http://www.warnell.uga.edu/h/aboutWSFR/directions/index_html)

### Special Services

If you require special services or dietary ingvar@uga.edu prior to November