Auburn University School of Forestry and Wildlife Sciences and
The Alabama Cooperative Extension System Present:

Introduction to ArcGIS for Forestry and Other Natural Resource
Applications

SHORT COURSE DESCRIPTION:

What: This 1.5 day short course is an introduction to GIS that explores the basics of ArcGIS/ArcMap 10 that are essential in completing forestry and other natural resource based planning and management activities. The course will focus on vector data but also provides introductory information about raster data layers. The format includes instructor led examples for students to follow at their individual computers with handouts including screen shots and tips for future reference. All examples will focus on real-world forestry and other natural resource applications for creating maps and working with various data layers.

Why: With the rapid expansion of technology and digital products for forestry, wildlife, and other natural resource applications, the need for spatial skills in Geographical Information Systems (GIS) and Global Position Systems (GPS) are now the rule rather than the exception. With a good map being one of the most important tools natural resource professionals need for effective planning and management, educational opportunities are needed so skill sets can keep pace with technology. This class provides users the opportunities to learn how to use ArcGIS to make professional maps and to view, edit, manipulate, overlay, and analyze data layers, which is often as or more important than the map itself. The outcomes from this class can provide users with the opportunities to increase production and work quality across a variety of forestry and other natural resource related tasks.

Who: This course in an introductory course that starts at the beginning for foresters and other natural resource professionals interested in working with ArcGIS or those that have taken an introductory course and are looking for a refresher. The course is also well suited for university students and private landowners with interests in natural resources and spatial tools.

Where: Auburn University School of Forestry and Wildlife Sciences - Room 2216

When: May 10-11, 2012

Course Objectives and Outcomes: Students will be able to use ArcGIS to open, explore, edit, and manipulate shapefiles for a variety of forestry and other natural resource based activities. Users will learn how to query and export tabular data in addition to creating professional maps for various reporting opportunities. Users will also learn about various overlay tools and be able conduct simple analyses for natural resource based activities.

Continuing Forestry Education (CFE) Credit Hours: TBA
The Wildlife Society (TWS) Contact Hours: TBA

Registration Fee: There will be a registration fee of $250 (by May 1st and $275 if after May 1st) for the short-course, which includes breaks, lunch, and handout materials.

*Please contact Kelly Knowles (knowlkw@auburn.edu, 334-844-1010) if you have any special needs (e.g. dietary, allergy, mobility, etc.).
INSTRUCTORS
John Gilbert is a Research Associate in the School of Forestry and Wildlife Sciences at Auburn University, Alabama. He works in the Longleaf Pine Stand Dynamics Lab on numerous projects including designing field-based GPS data collection applications, GIS database development, and GIS data analysis. Mr. Gilbert holds a Bachelor of Science in Forestry and a Master of Science in Forest Stand Dynamics with a Graduate Minor in Statistics from the School of Forestry and Wildlife Sciences at Auburn University.

Dr. Rebecca Barlow is an Assistant Professor and Forestry Extension Specialist, has worked in the areas of applied forest economics and timber management on private forests since 1992. In addition to 12 years of forest industry experience where she gained extensive experience in GIS database management; she currently assists private landowners in the areas of forest management, with specific emphasis on multiple use management.

SCHEDULE

Day 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
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<tbody>
<tr>
<td>7:30 am</td>
<td>Registration and Welcome</td>
</tr>
<tr>
<td>8:00</td>
<td>Introduction and Objectives</td>
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<tr>
<td>8:15</td>
<td>Overview of ArcGIS and Getting Started</td>
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<tr>
<td>9:00</td>
<td>File structures, projections, and working with data layers</td>
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<tr>
<td>10:00</td>
<td>Break</td>
</tr>
<tr>
<td>10:15</td>
<td>Exploring layer properties, attributes, and querying</td>
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<tr>
<td>12:00 pm</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00</td>
<td>Introduction to editing shapefiles and attribute data and to exporting data</td>
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<tr>
<td>3:00</td>
<td>Break</td>
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<tr>
<td>3:15</td>
<td>Introduction to the layout view, making maps, and exporting layouts and tables</td>
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<tr>
<td>5:30</td>
<td>Adjourn</td>
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Day 2

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<thead>
<tr>
<th>Time</th>
<th>Description</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>Introduction to Analysis Tools for Vector Data– Extract and Proximity Tools</td>
</tr>
<tr>
<td>10:00</td>
<td>Break</td>
</tr>
<tr>
<td>10:15</td>
<td>Analysis Tools for Vector Data Continued – Overlay Tools and Merge Tool</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Question and Answer Session, Wrap-up, and Review Objectives</td>
</tr>
<tr>
<td>12:30</td>
<td>Adjourn</td>
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</tbody>
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Registration for
Introduction to ArcGIS for Forestry and Other Natural Resource Applications, May 10-11, 2012 (CFEs and TWS Contact Hours: TBA)

(Please return this form with payment)

Instructors: Mr. John Gilbert and Dr. Becky Barlow
Auburn University School of Forestry and Wildlife Sciences, Room 2216

Fees:
Registration postmarked by May 1, 2012.................................................. $ 250.00
Registration after May 1, 2012........................................................................ $ 275.00
Fee includes breaks (both days), lunch (May 10), and class room materials.
Full registration will not be processed until payment is received

Enclosed is check #_______

Make check payable to: Auburn University School of Forestry & Wildlife Sciences

Mail payment to: Dr. Becky Barlow
3301 School of Forestry and Wildlife Sciences
Auburn University, Alabama 36849

Cancelation must be received by 5:00 pm, May 1, 2012 to receive a full refund.

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Name (please print)
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Name for badge
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Mailing address
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City   State   Zip  County
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Home phone   Work phone    Fax
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Position     Organization/Employer