

The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

Map Making: The Basics

March 8, 2016

Instructor: Pete Bettinger

Warnell School of Forestry and Natural Resources

Room 1-201 (the computer lab)



WARNELL
SCHOOL OF FORESTRY AND NATURAL RESOURCES
THE UNIVERSITY OF GEORGIA

Purpose and Objectives

Cartography is the art of representing spatial data in an organized and realistic manner through maps. The goal of this lecture and laboratory course is to show foresters and natural resource managers how to present information and improve communication through maps.

This four-hour course:

- Introduces different types of maps along with the basics of map design.
- Introduces methods for laying out maps in ArcGIS.
- Discussion of sources of mapping data.

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

- Create management-related maps that effectively display critical information.
- Locate base maps that may be valuable to visualizing spatial data.
- Students will compete in a Best Map competition. The winner will have the opportunity to have their map published in an upcoming version of *Forest Management and Planning*.

Who Should Attend?

Natural resource management professionals who have an interest in learning more about cartography and using maps to support natural resource management. Upper-level managers who would like to be able to create basic maps as well as field personnel who would like to use maps to visualize field data should find the course useful. Those with some knowledge of ArcGIS who would like to learn more about map production.

Format

The course follows a lecture and laboratory 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 utilizes ArcGIS. Handouts will be provided to summarize the material presented.

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Instructor

Pete Bettinger is a professor in the Warnell School of Forestry and Natural Resources. He has more than 30 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.

Registration Fee

The fee for this course is \$120, which will include instructional materials. You can register for the course online here:

<http://conted.warnell.uga.edu/>

Continuing Education Credits

- 4.0 Continuing Forestry Education (CFE) Hours– Category 1 (approved)
- 4.0 Continuing Logger Education Hours (CLE) – Environmental (approved)

Full Attendance is Mandatory to Receive Credit.

Course Itinerary

March 8, 2016

Time	Event
12:45 p.m.	Registration
1:00	Cartography defined, different types of maps.
1:30	Base map data sources.
2:00	Components of a map.
3:00	Map layout in ArcGIS, components of maps in ArcGIS
5:00	Adjourn

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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.

Cartographic Techniques

March 8, 2016

Registration by March 3, 2016:\$120.00

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. February 23, 2016 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

Special Services

If you require special services or dietary considerations, please contact

Ingvar Elle at 706-583-0566 or e-mail him at ielle@warnell.uga.edu prior to February 23, 2016.