

The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

Forest Management II: Forest-Level

Decisions

October 28, 2011

Instructor: Pete Bettinger

Warnell School of Forestry and Natural Resources

Room 4-516



WARNELL
SCHOOL OF FORESTRY AND NATURAL RESOURCES
THE UNIVERSITY OF GEORGIA

About the Program

Quantitative and qualitative forest management methods have long been used for making decisions concerning the timing of activities to meet silvicultural and management objectives. Foresters use a number of techniques to decide when and where to implement management activities, and to assess alternatives that acknowledge economic, ecological, and social goals. This course represents the second of a series of forest management continuing education courses that review and explore techniques and methods for developing forest plans.

This short, four-hour course will:

- Briefly introduce decision-making processes and planning at the forest level
- Review methods for organizing forest-level data
- Discuss forest-level objectives and constraints
- Discuss forest-level optimization with linear programming
- Discuss forest-level simulation and binary search
- Briefly discuss forest-level optimization with heuristics
- Discuss spatial considerations for forest-level decisions
- Discuss forest-level optimization with mixed integer programming

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

- Understand the basic principles of forest-level decision-making and planning processes
- Understand the methods for determining the optimal or near-optimal forest plans
- Understand the common problems related to, methods for, forest-level decision-making

Who Should Attend?

Natural resource management professionals who are involved in making decisions regarding the development of forest plans, but could use a short refresher on the methodology. People who want to learn more about quantitative forest management principles in order to advance their careers or to meet the needs of a professional certification organization.

Registration Fees

The fee for this course is \$120, which includes instructional materials, one luncheon.

Format

The course involves lecture presentations that provide an overview of forest management principles as they pertain to forestry and natural resource management in the United States. The material will be presented in a logical manner, from an introduction to decision-making and planning to principles for tree-level and stand-level optimization of decisions. These lectures all occur within a four-hour period of time on the day of the course. Handouts will be provided to summarize the material presented.

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Instructor

Dr. Pete Bettinger is a professor in the Warnell School of Forestry and Natural Resources. He has more than 25 years of operating, teaching, and research experience in forestry and natural resources, including roles with the U.S. Forest Service, several forest products companies, and Oregon State University. Dr. Bettinger has taught courses on forest measurements, forest planning, and harvest scheduling, as well as GIS applications in natural resource management. In 2009, Academic Press published his book *Forest Management and Planning*, and in 2008 Oxford University Press published his book *Geographic Information Systems: Applications in Natural Resource Management*. Dr. Bettinger earned BS and MS degrees from Virginia Tech; and a PhD from Oregon State University.

Course Itinerary

October 28, 2011

Time	Event
9:30 AM	Registration
10:00	Brief introduction to decision-making and planning processes at the forest-level
10:30	Review of methods for organizing forest-level data
11:00	Discussion of forest-level objectives and constraints
11:30	Discussion of forest-level optimization with linear programming
12:00 PM	Lunch
12:30	Discussion of forest-level simulation with binary search
1:00	Brief discussion of forest-level optimization with heuristics
1:30	Discuss spatial considerations for forest-level decisions and mixed-integer programming
2:30	Adjourn

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Continuing Education Credits

- 4.0 Continuing Forestry Education credit hours (approved)
- 4.0 Continuing Logger Education (CLE) hours—Environment (approved)

Full Attendance is Mandatory to Receive Credit.

You may register using the form below, or register online at <http://conted.warnell.uga.edu> or by phone by calling Ingvar Elle at 706-583-0566.

Registration Form

Name - please print

Preferred name for badge

☐ Business mailing address or ☐ Home address (please check one)

City

State

Zip

County, if Georgia

Home phone

Work phone

Fax

Email address
Education

☐ Please send me e-mails about other Warnell Continuing programs.

Position

Organization/employer

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

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Registration by October 27, 2011.....\$120.00

Total: \$_____

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. October 14, 2011 to receive a refund.

Call Ingvar Elle at 706-583-0566 to cancel.

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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 October 27, 2011.