

FORS 4710 / 6710 - 4710L / 6710L
Quantitative Decision Methods for Forest Management

Fall Semester 2005

Lecture (undergraduates): FORS 4710 # 10-500
 Lab: (undergraduates) FORS 4710L # 90-504

Lecture (graduates): FORS 6710 # 30-501
 Lab (graduates): FORS 6710L # 00-505

Meeting Time & Places: 11:15 - 12:05 MW in 1040-304 (lectures)
 11:15 - 12:05 F in 1046-419 (labs)

Instructor: Dr. Pete Bettinger 4-527 542-1187 pbettinger@forestry.uga.edu

The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.

Course objectives: This is an upper-level course in forestry, with a focus on quantitative methods used to assist forest managers in developing forest-level management decisions.

Book: Davis, L.S., K.N. Johnson, P.S. Bettinger, and T.E. Howard. 2001. Forest Management, fourth edition. McGraw-Hill, Inc., New York.
 Typographical errors in the text book:
www.forestry.uga.edu/Warnell/Bettinger/mgtbook/Index.htm

Testing:

1. Two exams, tentatively scheduled for:
 September 28, 2005 (Wednesday)
 November 2, 2005 (Wednesday)
2. Final Exam - **TBA**

Make-up Policy: Missed exams, labs, lab assignments, and lecture assignments may not be made-up, if the reason is an un-excused absence. If a lecture exam, lecture assignment, lab, or lab assignment is missed due to an excused absence, they may be made up at the earliest convenience. If any of the graded events are missed due to an un-excused absence, a grade of 0 will be recorded, and this will be used in calculating the course grade.

<u>Grading system</u> :	Lecture exams (2 @ 20% ea.)	40%
	Final exam	20%
	Lecture assignments	15%
	Laboratory assignments	25%

Attendance: Lectures are provided to assist in the learning process, and attendance is not mandatory. Similarly, attendance in labs is discretionary. However, a portion of the course grade is based on work performed in a lab, such as a field lab, or assignments provided during lectures (with very a short period of time to completion).

Academic honesty:

All academic work must meet the standards contained in “A Culture of Honesty.” Students are responsible for informing themselves about those standards before performing any academic work.

The link to more detailed information about academic honesty can be found (until August 22) at:

http://www.uga.edu/ovpi/academic_honesty/academic_honesty.htm

The link after August 27 will be:

<http://www.uga.edu/ovpi/honesty/acadhon.htm>

LECTURE TOPIC SCHEDULE (Tentative)

<u>Lecture</u>	Topic
1	Overview of the course
2	Introduction to forest management
3	Concepts and criteria for forest management
4	Management prescriptions
5	Land classification systems
6	Growth and yield of forests and forest structure
7	Models for estimating outcomes
8	Problem identification
9	Forest planning solution techniques
10	Forest planning solution techniques
11	Linear programming
12	Linear programming
13	Linear programming
14	Linear programming
15	The simplex method
16	Forest regulation
17	Forest regulation
18	Forest regulation
19	Binary search
20	Binary search
21	Harvest scheduling / sustainability of resources
22	Tactical planning
23	Tactical planning
24	Tactical Planning
25	New technology