

Syllabus

Forest Mensuration

FOR3430C

Instructor: Mr. Ken Oser, RF
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Office Hours:

By appointment in the afternoons and/or before class on campus, immediately after class for all students with or without an appointment, or you may leave messages by e-mail or voice mail by phone.

Meeting Times:

Wednesday 5 - 8:00 pm, Room 4814
5 Friday afternoon and/or Saturday morning labs

Prerequisites:

FNR 3410 C or equivalent

Course Description:

Forest mensuration a 3 hour credit course with lab is concerned with direct measurements, sampling, and prediction. Direct measurements require the appropriate knowledge and use of instruments used to collect desired data from trees. Forest areas cover vast areas and measuring every forest element is not feasible, thus proper sampling of forest areas is employed to provide the estimate of forest parameters. With direct measurements and proper sampling, prediction of forest parameters can be determined. Forest measurements will examine appropriate methods of direct measurements, sampling and their use in predicting forest parameters.

Course Objective:

Train students on aspects of principles of forest mensuration and their applications to estimate forestry resources. Some of the topics covered include: individual and stand level volume estimation, natural resources inventories, sampling design, basic statistical principles, and growth and yield models. The attendance and active participation of the lab exercises is a significant component of this course.

Required Text:

Forest Measurements - 5th Edition. Avery, T. E. and H. E. Burkhardt. 2002. McGraw- Hill. New York, N.Y.

Supplemental Reading:

As assigned.

Evaluation and Performance Criteria:

All exams are closed book and you will need a calculator. Make-up examinations will only be given if the student has been excused prior to the original scheduled date of the test and must be taken within seven days of the original test date.

Assignment	% of final grade
Labs/reports	20
Timber Appraisal Lab & Report	30
Tests	<u>50</u>
Total	100

Grading:

Letter grades will be assigned as follows: A (95-100), A- (94-90), B+ (86-89), B (83-85), B- (80-82), C+ (76-79), C (73-75), C- (70-72), D+ (66-69), D (63-65), D- (60-62), E (57-59)

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Attendance and Make-Up Work

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Laboratory/Field attendance IS mandatory, and only medical excuses will be accepted. Lecture attendance is not obligatory, but success in the class (together with class participation and quizzes) will depend on attendance. In addition, some topics relevant for exams and homework that are not included in the book will be presented during class.

Appropriate field gear, including heavy pants and closed toe shoes (boots or tennis shoes), ARE MANDATORY for this class in order to participate in field labs. Some field activities will be conducted using a two (and three) person crew.

Course Schedule

On occasion I may need to email the class regarding updates to the syllabus schedule or clarification of assignments.

TENTATIVE SCHEDULE

Date	Activity	Reading	Assignment Due
Week 1 1/6	Course Overview & lab Date Determination		
Week 2 1/13	Measurement costs considerations and statistics	Ch 1 & 2	
Week 3 1/20	Statistics	Ch 2	Homework due Jan. 27
Week 4 1/27	Cubic volumes, cord volume and weight scaling & log rules scaling and wood products	Ch 5 & 6	Homework due Feb. 3
Week 5 2/3	Continue log rules scaling and wood products & sampling designs - Review for test	Ch 6 & 3	

Week 6 2/10	Test - pacing exercise		
Week 7 2/17	Land measurements	Ch 4	Homework due Feb. 24
Friday or Saturday 2/20*	Compass & pacing - Area calculation exercises		
Week 8 2/24	Measuring standing trees & Forest inventories	Ch 7 & 9	
Week 9 3/2	Spring Break		
Week 10 3/9	Inventories with sample strips or plots (fixed)	Ch 10	
Friday or Saturday 3/12*	Strip cruise & tenth acre cruise, (bring snack/lunch)		
Week 11 3/16	Continue inventories with sample strips or plots (fixed) & Volumes and weights of standing trees	Ch 10 & 8	Homework due March 23
Friday or Saturday 3/19*	Fifth acre cruise - Form Class - Pole Identification		Report due March 23
Week 12 3/23	Inventories with point sampling	Ch 11	
Friday or Saturday 3/26*	Prism Cruise		Report due April 6
Week 13 3/30	Test; Inventories with point sampling & using aerial photographs	Ch13	
Friday or Saturday 4/2*	Prism Cruise-Appraisal Exercise		Report due April 27
Week 14 4/6	GIS systems & tree growth & stand table projections	Ch 14 & 15	
Week 15 4/13	Tree growth & stand table projections	Ch 16 & 17	
Saturday 4/16	Rainy Day Make - up Lab		
Week 16 4/20	Review		
Week 17 4/27	Final Exam		

* Tentative Lab Dates to be Finalized by Second week of class

Online Course Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open for students to complete during the last two or three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: *"We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."* You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: *"On my honor, I have neither given nor received unauthorized aid in doing this assignment."*

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>.

Special Note: Texting and the use of cell/smart phones will not be tolerated during class. If your phone rings, buzzes or beeps during class, I will take it away for the remainder of class. During a test, anyone texting, or appearing to text, will assume to be cheating and appropriate University policy will be taken.

Software Use:

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Services for Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation 352-392-8565, www.dso.ufl.edu/drc/

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students.

University Counseling & Wellness Center www.counseling.ufl.edu/cwc/
Career Resource Center www.crc.ufl.edu/