

Carter

**FIELD BOTANY
BIO 235
SPRING 2001**

Proposed topics for discussion and lab

	LECTURE/DISCUSSION	LAB/FIELD
Jan. 18	Introduction to the course - Case Study	
Jan. 23	The Case Continues B.Y.O.T.	Taxonomic key, microscopes Trees in Winter I. (Bring "Identification of S.E. Trees in Winter")
25	No class. Plan to attend Reconciliation Symposium Panel on the Environment, Dr. David Orr Friday afternoon 3:15 p.m. - 5:00 p.m. or E.O. Wilson, Saturday 11:45 - 12:45 WHSCAB	
Jan. 30	The Eastern Deciduous Forest	Trees in Winter II. The forests of Oxford College; Field identification
Feb. 1	Introduction to Ethnobotany	
6	Medicinal Plants	Bottomland hardwood forest, Gum Creek
8	Information Resources for Botany (Meet in the Multi-Media Lab) <i>Draw for dates</i>	
13	Trip to the Botanical Garden	Depart 12:30 p.m. (Bring a snack)
15	Tree Quiz Discussion of Paper Topics	
20	Guest Lecture: Jenny Cruse Ph.D. Candidate, UGA	Yellow River Forest
22	Evolution, variation and biosystematics	

Note: This proposed schedule will change as weather opportunity and interest suggest.

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	27	What is a species? How do species originate?	Flowers and fruits in taxonomy, using "THE KEY". B.Y.O.F. (Bring Radford to lab.)
Mar.	1	The origin of <u>Talinum teretifolium</u> <i>Outline of paper due</i>	
	6	Early spring plants: collecting and identifying; Meet in Lab at 12:30	
	8	**WINTER TREE EXAM** Field Notebooks due in class.	
	12-16	***SPRING BREAK***	
	20	Student Presentation I (4); Plant families	Weeds of field and lawn
	22	Student Presentation II (4); Plant families	
	27	Student Presentations III (4); Plant families	Botanical excursion and plant identification (Bring Radford)
	29	Student Presentation IV (4); Plant families	
April	3	Wesley Woods: Old Growth Forests of Emory University	Depart 12:30 p.m. (Bring a snack)
	5	Plant families and identification	
	10	Weeds and urban plants	Urban plant communities
	12	Plant families and identification	
	17	Endemism on rock outcrops	Granite outcrops
	19	Field Trip Preview	
	21-22	***WEEKEND FIELD TRIP*** Please reserve Saturday and Sunday	
	24	Wetlands and greenways	Alcovy River Swamp
	26	Final Preparations	

May 1 **FINAL LABORATORY EXAM I: Plant Identification in lab with Radford (12:30 - 5:00)**

2 ***Reading Day***
Which tree haven't you seen? The last walk!!

Monday, May 7th*FINAL TREE EXAM***(9 a.m - 12 noon) Field notebooks due.**

Instructor: Dr. Eloise Carter

Office: P105, 4-8343

Texts: Preston, R.J., Jr., and V.G. Wright. 1985. *Identification of Southeastern Trees in Winter*. North Carolina Agricultural Extension Service. The only guide to trees in winter for this area. **(Required)**

Radford, A.E., H.E. Ahles and C.R. Bell. 1968. *Manual of the Vascular Flora of the Carolinas*. University of North Carolina Press. The most complete flora of the Southeast. Others will be available in lab. **(Required)**

Harrar, E.S. and J.G. Harrar. 1962. *Guide to Southern Trees*. Dover Press. This is an excellent guide to trees, but does not include shrubs. (optional)

Smith, J.P., Jr. 1977. *Vascular Plant Families*. Mad River Press. This book will be provided in the lab as a reference.

Peanuts



Peanuts



A FIELD GUIDE TO FIELD BOTANY

CLASS OBJECTIVES:

- to study in the field and laboratory the flora of southeastern plant communities;
- to investigate the uses of plants;
- to identify in the field 50+ woody plants in the winter condition;
- to identify in the field 100+ woody plants in the spring;
- to use a taxonomic key to identify local flora;
- to develop the observation and investigative skills to be keen observers of the natural world, *forever*.

CLASS PREPARATION: Students do not have readings from a textbook, but should expect to read articles for background information. Students should be prepared to ask questions and to participate in class and laboratory discussion. Students are responsible for *all* material in lab, field and lecture. Classroom material provides the background and instruction needed to be successful botanists in the laboratory and field. References and resources are provided in the laboratory. Use them!

WOODY PLANTS: Students will be able to identify approximately 50 woody plants in the winter condition before Spring Break and around 100 woody plants by the end of the semester. *Students are expected to take the initiative and responsibility for locating and identifying woody plants. The instructor is one of many resources available to students.*

STUDENT PAPERS AND PRESENTATIONS: Each student will investigate a plant or group of plants which make important contributions to our lives. Each student will prepare a paper (approximately 10 pages) on the ethnobotany of their taxa. The papers are due on the day after their presentation. Students will select a portion of their work to present in a 15-20 minute paper in class on March 20, 22, 27 or 29. Look for an information sheet in the second week of class.

FIELD EQUIPMENT: Every student will need a hand lens for class and lab. These are available for purchase or loan. A pocket knife is not required, however I strongly recommend you purchase or borrow one for the semester. *Students should pick up a collecting bag and rubber band before going in the field.*

FIELD NOTEBOOKS: Students will keep a notebook for field observations and notes. The purpose of a field notebook is to promote, reward, and evaluate good field observations and identification skills. Each entry in your Field Book **must include** date, location and observers. *This is followed by a general description of the site, including*

physical features, indications of disturbance, community type; notes on species of importance or interest; and notes on characters for identifications. All notes must be made in pencil in the field, with a required summary paragraph added later.

Notebooks will be collected and graded twice during the semester.

WEEKEND FIELD TRIP: All students are expected to attend the weekend field trip and should make plans in advance. The cost of the trip varies, but usually ranges between \$25 to \$50, depending on the arrangements.

HONOR CODE: All examinations and work for credit in this course come under the regulations of the Honor Code. Your signature on your work attests to your upholding the Honor Code.

OFFICE HOURS: Monday, Wednesday, and Friday 11-12, on Wednesday I will be in the library for office hours. I am available to help at any time. For an appointment see me in class or come by my office.

ABSENCES: Don't be absent, you will miss too much. However, if emergencies or illness prevent attendance, please notify the instructor immediately. The Biology department policy on absences is available as a separate handout.

EVALUATIONS: Students will be evaluated on weekly plant identifications, ethnobotany presentation and paper, field notebook, field exams on woody trees, and a final laboratory identification of unknowns. Written examinations may be given in lecture. Class participation and the development of field skills also will be considered.

Proposed contributions to grade:

- Tree identification 30%
- Weekly identification of flora 20%
- Exam - identification of flora 20%
- Field Notebook 15%
- Paper and presentation 10%
- Other class work 5%

ABSENCE POLICY - Biology Department

All students are expected to attend all lecture and laboratory sessions. However, emergencies may arise which will necessitate absences from class. Students are allowed 4 cuts in lecture and NO CUTS in lab. Students may only miss lab without penalty in cases of illness, family emergency or a school sponsored event which is cleared with the professor in advance. Students are responsible for all material which is covered in laboratory and lecture. When possible, students will be allowed to "make-up" laboratory material missed due to an excused absence, however, because of the nature of laboratory material, actual "make-up" of missed activities is usually impossible.

PENALTIES

Students who exceed the 4 cut limit in lecture for whatever reasons or have an unacceptable absence from laboratory will have their FINAL grade reduced 5 points per absence. Students who miss 2 labs without acceptable reasons will fail the course (see below).

LECTURE ABSENCES:

THERE ARE NO EXCUSED ABSENCES FOR LECTURE. Each student may be absent four times without penalty. These four cuts may be used for any reason: illness, studying, travel, family emergency, etc. However, ANY additional cuts will result in grade reduction. USE YOUR CUTS JUDICIOUSLY, e.g. for sick leave only.

ACCEPTABLE LABORATORY ABSENCES

Although no discretionary absences, i.e. "cuts", are allowed regarding laboratory, on rare occasions, illness, family emergencies, or certain school sponsored events may make it necessary for a student to miss a laboratory session. The instructor MUST be notified prior to the day of the absence in all but the most extreme emergencies.

In all cases, the final decision regarding whether or not an absence is acceptable will be made by the instructor.

AN UNACCEPTABLE ABSENCE FROM LABORATORY RESULTS IN A FIVE POINT REDUCTION IN THE FINAL GRADE. TWO UNACCEPTABLE LABORATORY ABSENCES RESULT IN FAILURE OF THE COURSE.

MISSED TESTS

Ordinarily, tests cannot be made up, however, this is up to the instructor. If a student misses a test, and the absence is acceptable the missed test will not count either for or against the student. If the absence is not excused the grade will be a zero. Students are cautioned that any excuse for missing an exam will come under severe scrutiny by the instructor. THE INSTRUCTOR MUST BE NOTIFIED PRIOR TO THE TIME OF THE EXAM, AND THE INSTRUCTOR MAKES THE FINAL DECISION REGARDING WHETHER OR NOT AN ABSENCE IS ACCEPTABLE.

Laboratory tests which are missed for a reason that is excused MUST be made up. The instructor must be notified prior to the time of the test.

RELIGIOUS HOLIDAYS:

Students must notify the instructor one week in advance if they intend to be absent for a religious holiday.

TARDINESS

Being late to class is rude and distracting. Continued tardiness by any student will result in the assignment of absences and ultimately a reduction in the student's grade. Three tardies equal an absence. The tardy student is responsible for notifying the instructor that she/he entered the classroom late and, therefore, was not absent. The instructor reserves the option of excluding a person from further classroom or laboratory participation if the student is continuously tardy.

Falsification of information regarding absences from class or laboratory will be considered as a breach of academic integrity.