

**BOTANY 4713C
PLANT TAXONOMY
SPRING 2019**

Lecture: T, Th 12-1:15 BIO rm # 104, Lab: T, Th 1:30-4:20 BIO rm. # 104
Pre Requisites: BOT 3015 Credit: 5

Instructor: Dr. Elizabeth Harris

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Office Hours: T & Th 10-noon or by appointment

Course Description:

Systematic classification and identification of vascular plants, with emphasis on the flora of peninsular Florida.

Objectives:

1. Learn basic techniques of plant identification (emphasizing morphological terminology)
2. Recognize and characterize ~50 major plant families
3. Acquire a basic understanding of the relationships among flowering plants
4. Gain exposure to a diversity of plant communities and species
5. Prepare a museum quality herbarium specimen and use a research herbarium

Required books:

- 1) Wunderlin, Richard, and Bruce Hansen. 2011. Guide to the Vascular Plants of Florida, Third Edition. University Press of Florida.
- 2) Harris, James and Melinda Woolf Harris. 2003. Plant Identification Terminology. Second Edition. Spring Lake Publishing, Spring Lake, Utah.
- 3) Plant Systematics. 2016. Judd, Walter, Christopher Campbell, Elizabeth Kellogg, Peter Stevens and Michael Donoghue. 4th edition. Sinauer Associates.
- 4) Collection book

Additional supporting media:

The following websites will be useful in identifying Florida plants.

<http://florida.plantatlas.usf.edu/>

<http://hort.ifas.ufl.edu/floragator/>

Classroom Conduct: By enrolling at UCF, all students have agreed to abide by the Golden Rule.

Please become familiar with this document at: <http://www.goldenrule.sdes.ucf.edu/>

Please also use common courtesy in class by arriving and departing on time, refraining from talking during class, and silencing cell phones. Audio recording of lectures is permitted. Taking pictures of the Powerpoint images on the projection screen with digital cameras or camera-cell phones is permitted, video recording is not.

Grading:

Lecture and lab are combined into one class grade that breaks down as follows:

Syllabus quiz	10
3 lecture exams @ 100 pts each	300
7 written labs @ 20 pts each	140
Plant collection, 40 specimens @ 5 pts each	200
Plant collection book	50
Keying exercises, best 10 @10 pts each	100
Final exam	200
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Total	1,000

89.5-100% = A, 79.5-89.4% = B, 69.5-79.4% = C; 59.5-69.4% = D; 0-59.4% = F

If you have a valid, documented reason for missing a lecture or laboratory session (from doctor, police, judge, official UCF event, etc.), you must contact me within 24 hours of the start of the class. Attendance will be taken at the beginning of each class and lab. It is mandatory to wear long pants and closed-toe shoes (preferably hiking boots/shoes if possible) for all outdoor field trips. Closed-toe shoes are required by OSHA regulations in the laboratory at all times. After the first week, if you are not wearing closed toed shoes you will be asked to leave and an unexcused absence will be recorded. There will be no smoking, eating or drinking in the laboratory.

You will be assigned a press kit. This will be yours to use for the duration of the semester. It will need to be checked back in at the end of the semester. If it is not, I will issue a grade of "I" for the course which will not be changed until the kit is returned or paid for.

Disability Access Statement: The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. This syllabus is available in alternate formats upon request. Students with disabilities who need accommodations in this course must contact the professor at the beginning of the semester to discuss needed accommodations. No accommodations will be provided until the student has met with the professor to request accommodations. Students who need accommodations must be registered with Student Accessibility Services, Student Resource Center Room 132, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor.

Please read the assigned chapters listed below before coming to the lecture.

Please note: assigned readings from chapters that may not have been discussed in lecture may be covered on exam material. Exams will be based on the material covered in lecture and assigned readings.

Also note that the instructor reserves the right to make changes to the syllabus or other aspects of the course at anytime. These changes will be announced in class.

Tentative Schedule (subject to change):

Lecture		Lab
T Jan 8	Intro to class, Ch. 1, Ch. 4	1. Terminology Exercise
Th Jan 10	Ch. 4, Plant terminology	Terminology Exercise cont.
T Jan 15	Ch. 4, Floral Formulas & Diagrams	2. Floral Formulas and Floral Diagrams Exercise
Th Jan 17	Ch. 3, History	3. Keying Exercise
T Jan 22	App. 1, Botanical Nomenclature	Keying Exercise cont.
Th Jan 24	Ch. 2, Phylogeny	4. Nomenclature Exercise
T Jan 29	Ch. 2, continued.	5. Phylogeny Exercise
Th Jan 31	App. 2, Plant collection	6. <i>On campus field trip to Herbarium and grounds</i>
T Feb 5	Exam 1	Phylogeny Exercise cont.
Th Feb 7	Plant collection cont. Labels and locations	7. Specimen Label Exercise
T Feb 12	<i>Off campus field trip to the Econ River WA—bring water and pack a lunch if desired</i>	
Th Feb 14	Ch. 5, Evolution of Plant Diversity	8. In class keying
T Feb 19	Ch. 5, continued/Ch. 6	9. <i>On campus field trip to Arboretum-Lake Claire</i>
Th Feb 21	Ch. 6, Green Plant Phylogeny	10. In class keying
T Feb 26	Ch. 7, Lycophytes, Ferns	11. In class keying lycophytes, ferns & gymnosperms
Th Feb 28	Exam 2	12. Fossil Plant Exercise
T Mar 5	Ch. 7, Gymnosperms	Fossil Plant Exercise cont.
Th Mar 7	Ch. 8, Intro to Angiosperms	13. <i>On campus field trip to UCF Arboretum—Wildflower Loop</i>
		First 20 specimens and collection book due**
T Mar 12	Spring Break—No class	
Th Mar 14	Spring Break—No class	
T Mar 19	<i>Off campus field trip to Tosohatchee WMA—Powerline Road—bring water and pack a lunch if desired</i>	
Th Mar 21	Ch. 8, ANA grade and Mesangiospermae	14. In class keying ANA and Mesang
T Mar 26	Ch. 8, Monocots	15. In class keying Monocots
Th Mar 28	Ch. 8, Monocots: Commelinoid Clade	16. In class keying Commelinoids
T Apr 2	<i>Off campus field trip to Tosohatchee WMA—South loop</i>	
Th Apr 4	Ch. 8, Eudicots: Tricolpates	17. In class keying Tricolpates
T Apr 9	Exam 3	18. <i>On campus field trip—S. Campus</i>
Th Apr 11	Ch. 8, Eudicots: Malvids Clade	19. In class keying Rosids
T Apr 16	Ch. 8, Eudicots: Superasterid Clade	20. In class keying Asterids
		Second 20 specimens and collection book due
Th Apr 18	Review and sum up	21. Return collections
Th Apr 25	10-12:50, Final Exam	