

**HORTICULTURAL PLANT MORPHOLOGY AND IDENTIFICATION**  
**HOS5117C**  
**FALL, 2016**

**INSTRUCTOR:** Dr. Bart Schutzman  
**OFFICE:** Rm 1531 Fifield Hall, UF Gainesville Campus  
**TELEPHONE:** (352) 273-4572

**TEACHING ASSISTANTS:**

Head TA: Marc Wissel, [mwissel@ufl.edu](mailto:mwissel@ufl.edu)  
TA: Trevor Crosby, [trevorwcrosby@ufl.edu](mailto:trevorwcrosby@ufl.edu)  
TA: Thomas Fraleigh, [trfraleigh@ufl.edu](mailto:trfraleigh@ufl.edu)  
TA: Caroline Hament, [chament@ufl.edu](mailto:chament@ufl.edu)  
TA: Luis Salazar, [luisalesalazar@ufl.edu](mailto:luisalesalazar@ufl.edu)

**E-MAIL:** [bart@ufl.edu](mailto:bart@ufl.edu). I will check the e-Learning site daily and try to answer your inquiries within one business day. In this way, I can make sure valid and helpful questions can benefit the entire class.

You may email me through e-Learning (Canvas) mail or UF email. You are also welcome to make an appointment and visit with me should you be in the area.

**CATALOG DESCRIPTION:**

Lecture - Identification, growth characteristics, culture and use of common landscape and greenhouse plants. Materials include trees, shrubs, vines, ground covers, lawn grasses and floriculture crops. Emphasizes temperate plants.

Laboratory - Introductory, upper-division environmental laboratory course. Identify commonly used landscape plants, their use and their characteristics.

**COURSE OBJECTIVES:** Upon completing this course, students should be able to:

- 1) Comprehend fundamental plant morphological characteristics and use them to identify common landscape and other plant materials
- 2) Learn plants live in laboratory and an additional 50 species online in the asynchronous lecture portion of the course, along with basic terminology used to describe them
- 3) Apply basic principles of botanical and horticultural taxonomy and nomenclature to describe plants
- 4) Understand the origin, use and function of plants in our environment

**REQUIRED TEXTBOOKS:**

Dehgan, B. 1998. Landscape Plants for Subtropical Climates. The University Press of Florida.

Harris, J. G. and Harris, M. W. 2006 (2nd edition). Plant Identification Terminology – An Illustrated Glossary. Spring Lake Publishing, Spring Lake, UT

Additional references and study guides will also be provided when appropriate.

**COURSE PREREQUISITES:** Junior level standing or higher, or permission of the instructor.

**CONTENT AND ORGANIZATION:**

The plant identification program is divided into two parts, the live laboratory and asynchronous lecture.

Lectures are in the form of modular video presentations. They are asynchronous and Web-based. Lecture quizzes and discussions are scheduled in tandem with laboratory meetings, which are separate and live.

Lecture materials consist of:

- 1) Approximately 40 video modules, along with their PDF scripts and PDF handouts of the PowerPoint presentations,
- 2) Ten plant study modules, covering 50 species. These are broken down into either taxonomic groups (plant families or genera) or horticultural categories (house or landscape plants), along with associated terminology and conceptual materials.
- 3) Assignments to reinforce lecture materials, covering the diverse topics of plant nomenclature, classification, vegetative, floral and fruit morphological terminology, and use and creation of dichotomous keys

### How Plant Materials are Learned

Students will be expected to identify approximately plants in the live laboratory, and the remaining 50 plants will be learned in online modules in the asynchronous lecture portion of the course. Plants in the online plant modules are well-known throughout the world and will be connected conceptually with both the live lab and the lecture material. They will be featured together with their significant morphological characteristics. The laboratory plant lists taught live will explore plants cultivated in the region of Florida where the student is based. Plants learned online will not be quizzed in lab, but may be tested on for extra credit.

Lecture materials include terminology used in plant identification, rules and application of plant nomenclature (botanical and horticultural), relevant plant materials to illustrate terminology and other lecture topics, and functional aspects of horticultural plants in our environment. The live laboratory sessions will build on lecture material and expose students to plant materials related to lecture topics.

Weekly lab quizzes will be given during the lab periods. Weekly lecture quizzes, in-class assignments and study exercises will be given during the weekly lecture discussion period at the beginning of lab periods. The lecture midterm will be given online using the Canvas Course Management System, the final lecture examination will be in-person. All grades will be posted to Canvas:

<https://lss.at.ufl.edu>

Sign onto this site with your Gatorlink credentials to access current grades and announcements. If at any time you experience problems with Canvas then it is your responsibility to contact the UF Computing Help Desk at: <http://helpdesk.ufl.edu> or (352) 392-4357. Please make sure to have Canvas Notifications enabled.

### **COURSE EVALUATIONS:**

Students are expected to provide feedback on the quality of instruction in this course based on ten criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu>.

### **ASSESSMENT AND GRADING:**

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

**1. Lecture Assessments (55% of course):**

Weekly Quizzes	20% of lecture grade
Midterm Exam	40% of lecture grade
Final Exam	40% of lecture grade

**2. Lab Assessments (25% of course):**

Weekly Quizzes	40% of lab grade
Midterm Exam	30% of lab grade
Final Exam	30% of lab grade

**3. Final Project (20% of course)**

**Grade Range: Course letter grades will be based on the following scale:**

A	92.5-100
A-	89.5-92.4
B+	86.5-89.4
B	82.5-86.4
B-	79.5-82.4
C+	76.5-79.4
C	72.5-76.4
C-	69.5-72.4
D+	66.5-69.4
D	62.5-66.4
D-	59.5-62.4
E	<59.5

**ABSENCES 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>.

**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/honorcodes/honorcode.php>.

\*\*\*\*\*PLEASE NOTE\*\*\*\*\*  
ALL EXAMS ARE CLOSED NOTE / BOOK.  
DISHONESTY WILL NOT BE TOLERATED IN THIS COURSE.  
\*\*\*\*\*

## 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.

## CAMPUS HELPING RESOURCES

**Health and Wellness** 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. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *U Matter We Care*, <http://www.umatter.ufl.edu>. If you or a friend are in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) or 352 294-2273 so that a team member can reach out to the student
- *Counseling & Wellness Center*, 3190 Radio Road, 352 392-1575, <http://www.counseling.ufl.edu/cwc/default.aspx>
  - Counseling Services
  - Groups and Workshops
  - Outreach and Consultation
  - Self-Help Library
  - Training Programs
  - Community Provider Database
- *University Police Department*: 352 392-1111 or 9-1-1 for emergencies

## Academic Resources

*E-learning technical support*, 352 392-4357 (select option 2) or e-mail [learning-support@ufl.edu](mailto:learning-support@ufl.edu). <https://lss.at.ufl.edu/help.shtml>

*Career Resource Center*, Reitz Union, 352 392-1601. Career assistance and counseling. <http://www.crc.ufl.edu>

*Library Support*, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources

*Teaching Center*, Broward Hall, 352 392-2010 or 392-6420. General study skills and tutoring. <http://teachingcenter.ufl.edu>.

*Writing Studio*, 302 Tigert Hall, 352 846-1138. Help brainstorming, formatting, and writing papers. <http://writing.ufl.edu/writing-studio>.

## 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

0001 Reid Hall, 352-392-8565, <http://www.dso.ufl.edu/drc/>

## STUDENT COMPLAINTS

Each online distance learning program has a process for, and will make every attempt to resolve, student complaints within its academic and administrative departments at the program level. See <http://distance.ufl.edu/student-complaints> for more details.

**INFORMATION SOURCES:** The tentative lecture schedule is presented below.

**NOTE:** Visual nature and memorization requirements of this course make it imperative that students view all lectures and read all handouts.

**SCHEDULE** (Subject to change at the coordinator's notice):

<b>WK</b>	<b>DATES</b>	<b>Modules, Plant Lists, Lecture and Lab Quizzes, Exams</b>
1	9/22-26	1) Introduction; 2) The Whole Plant; 3) Plant Nomenclature I Plant List 1 – PSF (Plant Science Facility)
2	8/29-9/2	4,5) Plant Nomenclature II, III; 6) Leaf Arrangement and Attachment Online Plant Module: ORCHIDS Lect. Quiz 1; Lab Quiz 1 Plant List 2 – NZ (Newins-Ziegler Hall)
3	9/5-9/9	7) Stipules; 8) Leaf Complexity & Venation; 9) Leaf Shape Online Plant Module: AROIDS Lect. Quiz 2; Lab Quiz 2 Plant List 3 - PSF
4	9/12-9/16	10) Leaf Apices; 11) Leaf Bases; 12) Leaf Margins Online Plant Module: PALMS Lect. Quiz 3; Lab Quiz 3 Plant List 4 - NZ
5	9/19-9/23	13) Leaf Textures & Surfaces; 14,15) Modified Structures I,II Online Plant Module: SUCCULENTS Lect. Quiz 4; Lab Quiz 4 Plant List 5 - PSF
6	9/26-30	16) Plant Forms; 17) Plant Life Cycle & Persistence; 18) Plant Variation Online Plant Module: CACTI Lect. Quiz 5; Lab Quiz 5 Plant List 6 - PSF
7	10/3-7	LAB and LECTURE MIDTERMS (Lecture Midterm online – see below*) (NO lect. quiz)
8	10/10-14	19,20) Flowers I, II; 21) Flowers III Online Plant Module: FICUS No Lect. Quiz; Lab Quiz 6 Plant List 7 - NZ
9	10/17-21	22,23) Inflorescences I, II; 24) Fruits I Online Plant Module: HOUSEPLANTS Lect. Quiz 6; Lab Quiz 7 Plant List 8 - PSF
10	10/24-28	25,26) Fruits II, III; 27) Plant Taxonomy I Online Plant Module: FERNS Lect. Quiz 7; Lab Quiz 8 Plant List 9 - NZ

<b>WK</b>	<b>DATES</b>	<b>Modules, Plant Lists, Lecture and Lab Quizzes, Exams</b>
11	10/31-11/4	28) Plant Taxonomy II; 29) Plant Groups; 30) Ferns and Allies Online Plant Module: CYCADS Lect. Quiz 8; Lab Quiz 9 Plant List 10 - PSF
12	11/7-11	HOLIDAY WEEK
13	11/14-18	31) Gymnosperms; 32) Cycads; 33) Angiosperms Online Plant Module: LANDSCAPE PLANTS Lect. Quiz 9; Lab Quiz 10 Plant List 11 - PSF
14	11/21-25	HOLIDAY WEEK
15	11/28-12/2	34) Orchids; 35) Succulents; 36) Dichotomous Keys Lect. Quiz 10; Lab Quiz 11 Plant List 12 - PSF
16	12/5-12/9	37,38) Climate and Phytogeography I, II; 39) Landscaping Principles Lect. Quiz 11 LAB FINAL during class
17	12/12-16	LECTURE FINAL – In Person*

\*Lecture Final Times:

Tuesday Section (Final Exam Group 15B): Thursday, Dec. 15<sup>th</sup> 10am-12pm - PSF5

Wednesday Section (Final Exam Group 12C): Monday, Dec. 12<sup>th</sup> 12:30-2:30pm - PSF5

**IMPORTANT NOTE:** Students in the Wednesday section may opt for the Thursday exam to give more study time. You must inform your instructor that you intend to take the later exam. Students in the Tuesday section may opt to take the Monday exam. Bottom line: there are **ONLY** two exam times, and you must take one of them! There will be no other accommodations.