

**ENVIRONMENTAL PLANT IDENTIFICATION AND USE (ORH3513C)**  
**HORTICULTURAL PLANT MORPHOLOGY (HOS5117C)**  
**FALL 2020**

**INSTRUCTOR:**

Dr. Bart Schutzman

Office: Rm 1531 Fifield Hall, UF Gainesville Campus

Ph (office): (352) 273-4572; Cell: (352) 256-4810 (texts only unless prearranged)

E-Mail: bart@ufl.edu

**TA:**

Lily Deeter

Cell: (904) 377-5058

E-Mail: ldeeter@ufl.edu

It is best to email me through my UF email address (bart@ufl.edu). You are also welcome to make an appointment for a phone call or Zoom meeting.

This course is online and mostly asynchronous. The section you sign up for has a time window that you should not schedule in any other course because synchronous activities occur during that window. The E-Learning (Canvas) site will be used to give you instructions for each week, including links to the online modules, online module PowerPoint slides, module transcripts, plant lists in PDF format, links to plant videos. It will also give you access to the Plant Image Library, an important resource within your Canvas site:

Userid: if-svc-enhplantid

Password: Bismarckia (case-sensitive)

Why is the course “mostly asynchronous”?

- 1) Attendance at the first zoom meeting is required because we discuss how the class is structured and answer your questions. Your success in the course hinges on how you understand the workings of this class. Significant credit will be given for attendance at the first Zoom meeting.
- 2) All quizzes occur in the time window of the section you registered for.

All course lecture and lab videos are asynchronous. Zoom meetings are scheduled one per week in the time slot used for the section you attend. The Zoom meetings are used for discussion and questions. Quizzes are scheduled within the Zoom meeting window so questions before and after the quizzes can be easily discussed. The midterm and final are each in a large asynchronous window.

All exams will use HonorLock, and as such, all students **MUST** possess a functioning webcam for their computer.

**CATALOG DESCRIPTION:**

Lecture - Identification, growth characteristics, culture and use of common landscape and greenhouse plants. Materials include trees, shrubs, vines, ground covers, floriculture crops. Emphasizes temperate and subtropical plants. Tropical plants covered often are grown in temperate areas as houseplants.

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 approximately 200 plants online, 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

Learning plants does not just require you to recognize them! You will have to study both morphological terminology and nomenclature (both common and scientific names) and be able to make the connections necessary between the plants, their names, and all relevant terminology.

**REQUIRED READING**

**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:**

Both the undergraduate (ORH3513C) and graduate course (ORH5117C) consists of asynchronous laboratory (1/3) and lecture (2/3) portions. The plant image library is an additional resource available through the Canvas page.

Both lectures and labs are in the form of modular video presentations. They are asynchronous and Canvas-based. All exams are in Canvas and will use Honorlock Proctoring.

Lecture materials consist of:

- 1) Approximately 40 video modules, along with their PDF transcripts and PDF handouts of the PowerPoint presentations. Watch the videos each week and be prepared the following class session to be quizzed on that material.
- 2) 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

Lab Materials consist of:

- 1) Video presentation for each plant in the week's lab list.
- 2) Ten "Plant Focus Modules" each of which has a single video and covers a specific plant group, discussing 4-6 plants per group. You are responsible for the identification of these as well as the individual species listed on the weekly plant list. Plant Focus Modules are: Aroids, Cacti, Cycads, Ferns, Ficus, Houseplants, Landscape Plants, Orchids, Palms, and Succulents.

## **What and How are Plant Materials Learned?**

Students will be expected to learn and identify about 200 plants.

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 learned plant materials will build on lecture material and expose students to other plant materials also related to lecture topics.

All terminology is important, but in this course, the most crucial terms are the vegetative features, mostly centering around leaves and stems. A flash card set is provided to each student at the beginning of the semester. You should be able to recall all the terms on the flash cards without any word banks, clues, or special hints.

Many vegetative, floral or fruit terms will be tested using multiple choice, T/F, or matching with word banks. However, you are responsible for any terms and conceptual materials mentioned in lectures with all the above methods of testing as well as with fill-in-the-blank questions. You will be asked to commit terms other than those presented in the flashcard deck to memory. Handouts will be made available for study referred to as "Concepts and Terms" that you can use as a study guide for the lecture midterm and final.

The way you should learn plant names and what is required is spelled out on your handout entitled "*Writing of Scientific Names*." You will learn plants from the videos and reinforcing your knowledge by venturing out independently or in socially distanced groups to find the plants in real life to examine and photograph. If permitted (depending on current university policy) and a TA is available, the TA could provide live reviews for the lab final. All plants taught are available somewhere on the UF campus.

Plants learned will be quizzed on weekly in Canvas. All lab quizzes, midterms and final are comprehensive and include plants of the current week's list as well as those from past lists.

## **E-LEARNING SITE**

Sign onto the E-Learning site (Canvas) with your Gatorlink credentials. If at any time you experience problems with the site, 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. 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>

### Lecture Assessments (2/3 of course):

Weekly Quizzes	20% of lecture grade (lowest quiz automatically dropped)
Midterm Exam	40% of lecture grade
Final Exam	40% of lecture grade

### Lab Assessments (1/3 of course):

Weekly Quizzes	40% of lab grade (lowest quiz automatically dropped)
Midterm Exam	30% of lab grade
Final Exam	30% of lab grade

The graduate section (HOS5117C) includes an additional graduate assignment (arranged with each student) that will be added to the above, and will constitute 20% of the course grade. In other words, 80% of the course grade will be determined as stated above, and the additional 20% will come from the graduate assignment.

## GRADING

Remember that grades posted in Canvas are ONLY RAW SCORES for your weekly quizzes, midterms and finals. The calculation of their relative values has not been made; therefore the values Canvas calculates from those raw scores are NOT correct. You will have to do extra math to determine how you are doing in the course!

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

A	92.45-100
A-	89.45-92.44
B+	86.45-89.44
B	82.45-86.44
B-	79.45-82.44
C+	76.45-79.44
C	72.45-76.44
C-	69.45-72.44
D+	66.45-69.44
D	62.45-66.44
D-	59.45-62.44
E	<=59.44

## 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 possible disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php>.

\*\*\*\*\*PLEASENOTE\*\*\*\*\*  
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 <http://helpdesk.ufl.edu>. *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 (0001 Reid Hall, 352-392-8565, <http://www.dso.ufl.edu/drc/>) 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

## 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:** Lecture and lab 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.

**LAB AND LECTURE SCHEDULE** (Subject to change at the instructor's notice):

WK	DATES	WEEKLY MODULES	Assessments
1	8/31-9/4 Plant List 1 (no focus)	Welcome; Introduction The Whole Plant Plant Nomenclature I	
2	9/7-9/11 Plant List 2 Focus: <i>Ficus</i>	Plant Nomenclature 2 Plant Nomenclature 3 The genus <i>Ficus</i>	Lect. Quiz 1 Lab Quiz 1
3	9/14-9/18 Plant List 3 (no focus)	Leaf Arrangement and Attachment Stipules Leaf Complexity and Venation	Lect. Quiz 2 Lab Quiz 2
4	9/21-9/25 Plant List 4 Focus: Ferns	Leaf Shape Leaf Apices Leaf Bases	Lect. Quiz 3 Lab Quiz 3
5	9/28-10/2 Plant List 5 Focus: Cacti	Leaf Margins Leaf Textures and Surfaces Modified Structures I	Lect. Quiz 4 Lab Quiz 4
6	10/5-10/9 Plant List 6 Focus: Succulents	Modified Structures 2 Plant Forms Succulents	Lect. Quiz 5 Lab Quiz 5
7	10/12-10/16	MIDTERMS - TBA - no new materials	
8	10/19-10/23 Plant List 7 Focus: Housepls.*	Plant Life Cycle and Persistence Plant Variation Flowers 1	no lect. quiz no lab quiz
9	10/26-10/30 Plant List 8 Focus: Landsc. Pls.*	Flowers 2, 3 Inflorescences 1	Lect. Quiz 6 Lab Quiz 6
10	11/2-11/6 Plant List 9 Focus: Palms	Inflorescences 2 Fruits 1, 2	Lect. Quiz 7 Lab Quiz 7
11	11/9-11/13 Plant List 10 Focus: Orchids	Fruits 3 Plant Taxonomy I, 2 Orchids	Lect. Quiz 8 Lab. Quiz 8
12	11/16-11/20 Plant List 11 Focus: Aroids	Plant Groups Ferns and Fern Allies Angiosperms	Lect. Quiz 9 Lab Quiz 9
13	11/23-11/27	HOLIDAY WEEK – Happy Thanksgiving!	
14	11/30-12/4 Plant List 12 Focus: Cycads	Cycads Gymnosperms Dichotomous Keys	Lect. Quiz 10 Lab Quiz 10
15	12/7-12/11 no plant list	Climate and Phytogeography I, 2 Landscaping Principles	no lect. quiz no lab quiz terminology
16	12/14-12/18	LECTURE AND LAB FINAL – TBA	

\*abbreviation "pls. = plants"