ADVANCED ENVIRONMENTAL PLANT IDENTIFICATION ORH4932C / HOS6932C SPRING 2024

INSTRUCTOR:

Dr. Bart Schutzman Office: Rm 1531 Fifield Hall, UF Gainesville Campus Telephone: (352) 273-4572 E-Mail: bart@ufl.edu

The E-Learning (Canvas) site will be used to give you instructions for each week, including links to all online materials, including plant lists in PDF format; lab locations; and access to the plant image library. This is an important resource you should consult almost every day! The Plant Image Library is an important resource within your Canvas site:

Userid: if-svc-enhplantid Password: Bismarckia (case-sensitive)

It is best to email me through my UF email (bart@ufl.edu). You are also welcome to make an appointment and visit me at my office (1531 Fifield Hall).

MEETING TIMES:

Lab: Thursday Per. 6-7 (12:50 – 2:50pm) PSF5 or other pre-arranged locations on campus

CATALOG DESCRIPTION:

Lecture - Identification, growth characteristics, culture and use of landscape and greenhouse plants in addition to those learned in the introductory course. Materials include trees, shrubs, vines, ground covers, grasses and floriculture crops. Temperate, subtropical, and tropical plants are covered.

Laboratory - Introductory, upper-division environmental laboratory course. Identify approximately 160 landscape plants, their use and their characteristics.

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

- 1) Comprehend plant morphological characteristics taught in Plant ID 1 as well as additional characteristics and use them to identify and/or describe common landscape and other plant materials
- 2) Learn approximately 165 taxa live in laboratory and through provided videos
- 3) Apply 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.

Recommended References:

Capon, B. 2010. Botany for Gardeners, 3rd Ed. Timber Press.

Dirr, M. A. 2009. Manual of Woody Landscape Plants, 6th Ed. Stipes Publishing.

Judd, W.S. et al. 2016. Plant Systematics: A Phylogenetic Approach, 4th Ed. Sinauer Associates, Inc.

Nelson, G. . 1996. The Shrubs and Woody Vines of Florida. Pineapple Press.

- _____. 2000. The Ferns of Florida. Pineapple Press.
- _____. 2003. Florida's Best Native Landscape Plants. UF Press.
- _____. 2011. The Trees of Florida, 2nd Ed. Pineapple Press.

Osorio, R. 2001. A Gardener's Guide to Florida's Native Plants. UF Press.

Simpson, M.G. 2010. Plant Systematics, 2nd Ed. Academic Press.

Stearn, W.T. 1992. Stearn's Dictionary of Plant Names for Gardeners. Cassell Publishers Ltd.

Wunderlin and Hansen. 2011. Guide to the Vascular Plants of Florida, 3rd Ed. UF Press.

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

COURSE PREREQUISITES: "B" Grade in ORH3513C, ORH3513 and 3513L, or HOS5117C.

CONTENT AND ORGANIZATION:

The course consists of two lecture meetings and one laboratory session per week.

How Plant Materials are Learned

Students will be expected to learn approximately 165 plants in the live laboratory and to be able to integrate this knowledge with the approximately 205 plants learned in ORH3513 and HOS5117. The laboratory plant lists will expand on materials that have been learned in the first plant identification course and enhance the understanding of morphological features.

Lecture materials will build upon concepts and terms that were learned in the first identification course. This includes additional terminology, 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 laboratory sessions will build on past course lab and lecture material and expose students to plant materials related to lecture topics.

Vegetative features were emphasized in the first course, and they will be expanded upon in this course, along with additional attention to more advanced vegetative features such as venation, vestiture, plant architecture. Expanded discussion of floral, inflorescence, fruit, and infructescence characteristics will also be included.

A "Concepts and terms" handout will be created for use as a study guide.

Nomenclatural rules pertinent to horticultural applications will be brought into sharper focus in this course, along with the use of terminology as used in application for plant patents and trademarks, especially pertinent to on manmade hybrids and other selections described as cultivars.

COURSE PROJECTS

In addition to learning additional plants and lecture materials, two small assignments will be completed during the semester. A final project employing student-made herbarium specimens to aid in teaching a selected topic will constitute 20% of the course grade.

E-LEARNING SITE

Sign onto the E-Learning site with your Gatorlink credentials. 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

Lecture (1/2 of course)		1000 points
Quizzes (1)	20% of lecture grade	200 points
Midterm Exam	20% of lecture grade	200 points
Final Exam	30% of lecture grade	300 points
Final Project	20% of lecture grade	200 points
Assignments (2)	10% of lecture grade	100 points
Lab (1/2 of course)		1000 points
Quizzes (4)	60% of lab grade	400 points
Midterm Exam	20% of lab grade	200 points
Final Exam	20% of lab grade	200 points
Final Project	20% of lab grade	200 points
Course Total:		2000 points

Course Total:

Extra credit assignments will be made available from time to time and earn BartBucks that will increase your overall grade. The value of BartBucks can be considered a bonus for excellent participation and changes based on number earned in the class. They will exchange at 4-12 BartBucks per overall course grade percent.

The graduate section (HOS4932C) will have an additional assignment (TBA) that will be added to the above (500 points), which will constitute 20% of the total course grade; and the value of lecture plus lab assessments above will equal 2500 points.

GRADING

Grade Range: Course letter grades will be based on the following percentage and point scales:

		Points	Points
	Percentage	ORH4932	HOS6932
Α	92.45-100	1849-2000	2311-2500
A-	89.45-92.44	1789-1848	2236-2310
B+	86.45-89.44	1729-1788	2161-2235
В	82.45-86.44	1649-1728	2061-2160
B-	79.45-82.44	1589-1648	1986-2060
C+	76.45-79.44	1529-1588	1911-1985
С	72.45-76.44	1449-1528	1811-1910
C-	69.45-72.44	1389-1448	1736-1810
D+	66.45-69.44	1329-1388	1661-1735
D	62.45-66.44	1249-1328	1561-1660
D-	59.45-62.44	1189-1248	1486-1560
Е	<=59.44	0-1188	0-1485

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/process/student-conduct-honor-code.

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.

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, https://disability.ufl.edu/

CAMPUS HELPING RESOURCES:

Health and Wellness

<u>U Matter, We Care:</u> If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: Visit the Counseling and Wellness Center website or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.

University Police Department: Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for emergencies).

Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road,

Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.

<u>GatorWell Health Promotion Services:</u> For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit the GatorWell website or call 352-273-4450.

Academic Resources

<u>E-learning technical support:</u> Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu. Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services. Library Support: Various ways to receive assistance with respect to using the libraries or finding resources. Teaching Center: Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring. Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers. Student Complaints On-Campus: Visit the Student Honor Code and Student Conduct Code webpage for more information. On-Line Students Complaints: View the Distance Learning Student Complaint Process.

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

(NOTE: Visual nature and memorization requirements make it imperative that students view all lectures and read all handouts.)

<u>wĸ</u>	DATES	LECTURE TOPICS	
1	<u>1/12</u> Plant List 1 (PSF, Fifield)	Welcome and Introduction The Herbarium	
2	<u>1/19</u> Plant List 2 (McCarty)	Advanced Nomenclature and Nomenclatural Resources Why do Names Change?	
3	<u>1/26</u> Plant List 3 (PSF, Fifield)	Vestiture and Surfaces LAB QUIZ 1	
4	<u>2/2</u> Plant List 4 (PSF, Fifield)	Lecture Quiz 1 Monocarpy Phyllotaxy	
5	<u>2/9</u> Plant List 5 Mehrhof Area)	Flowers and Inflorescences Fruits and Infructescences LAB QUIZ 2	
6	<u>2/16</u> Plant List 6 (PSF, Fifield)	Cultivars, Plant Patents and Trademarks Greges, Groups and Orchid Pedigrees	
7	<u>2/23</u> No list	Preparation of Herbarium Specimens LAB MIDTERM (Canvas) Plant Lists 1-6; LECTURE MIDTERM on materials throu – Both exams open 2/22 8am and close 2/24 11:59pm	ıgh 2/16
8	<u>3/2</u> Plant List 7 (PSF, Fifield)	Vegetative Features 1 Vegetative Features 2 – Venation	
9	<u>3/9</u> Plant List 8 Powell House)	Plant Growth Modification	
10	<u>3/16</u>	SPRING BREAK	
11	<u>3/23</u> Plant List 9 (PSF, Fifield)	LAB QUIZ 3 Mon. 3/27 10am - Guest Lecture by Dr. Sandra Wilson: "INVASIVE PLANTS"	
12	<u>3/30</u> Plant List 10 (PSF, Fifield)	Phylogenetics	
13 (N	<u>4/6</u> Plant List 11 IcCarty/Forestry)	LAB QUIZ 4	
14	<u>4/13</u> Plant List 12 (E Campus)	Presentation of Dried Specimens and Lessons	
15	<u>4/20</u> Lab Final TBA	Lecture Final TBA	