



**Syllabus**  
**ORH 3815/5817C**  
**Florida Native Landscaping**  
*Spring 2022- 3 credits*

**Instructor**

**Gainesville campus:**  
**Dr. Sandra Wilson**  
Professor, Environmental Horticulture  
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Mehrhof Hall, Bldg 550, Room 102

**Teaching Assistants**

**Gainesville campus:**  
Lindsay Mikell  
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**Course Description:**

This is an upper-division environmental horticulture course designed to encourage students to have an interest, understanding, and appreciation of Florida's native flora. Weekly lectures will cover plant nomenclature, effective utilization, and design elements of native plants that are commercially available for landscape use. Web-based topical lectures will be provided from experts who have a range of knowledge in the field. Weekly lab exercises will cover some of best native plants for our area, propagation of native plants, and incorporation of native plants into gardens and landscapes.

**Prerequisite:**

There are no course prerequisites for this class. Environmental Plant Identification (ORH 3513) is useful but not required. This course has a junior level standing requirement.

**Class Meeting Time and Location:**

Wednesdays (2:00 pm-5:00 pm). Class may end early on days where online lectures are assigned instead live lectures.

Gainesville meeting location: Greenhouse complex, PSF5.

\*Students will be required to attend the scheduled field trips.

\*The Gainesville class may meet at alternate locations as needed such as Mehrhof Gardens, the UF Tree Unit, and the UF Herbarium.

### Office Hours:

Please feel free to email the instructor at any time to meet. Office: Mehrhof Hall, Bldg 550, Room 102. Or contact by email, canvas, or text.

### Learning Objectives:

*At the conclusion of this course, the student will be able to:*

1. Identify 50+ species that are native to Florida and used in landscapes
2. Examine the aesthetic and functional value of native plants and how they can be better incorporated into landscapes
3. Characterize underutilized natives using learned taxonomic descriptions, species distinctions among shared genera, herbarium sampling, and photography
4. Associate original plant ecosystems with selection, use, establishment and maintenance of natives in modified landscapes
5. Determine propagation and production practices for natives
6. Distinguish between native and non-native cultivars

### Course Website:

CANVAS (for lecture print-outs, recorded lectures, additional readings, group assignment descriptions, discussions, etc.) <http://elearning.ufl.edu/>

Native Landscaping website: <http://irrecenvhort.ifas.ufl.edu/FNL/Index.htm>

### Course Textbook:

Matrazzo, S. and N. Bissett. 2020. Native Plants for Florida Gardens. Pineapple Press, ISBN 978-1-4930-4378-1.

\*There also will be supplemental reading material available online

### Other Useful Book References: \*desk copies can be found in the instructor's office

Armitage's Native Plants for North American Gardens. 2006. Timber Press, Portland, OR.

Daniels, J.C. 2022. Native Plant Gardening for Birds, Bees & Butterflies: Southeast. Adventure Publications.

Hall, D.W. and W.J. Weber. 2019. Wildflowers of Florida and the Southeast.

Haehle, R.G. and J. Brookwell. 2004. Native Florida Plants. 2nd edition. Taylor Trade Publishing, Lanham, MD. (Recommended)

Huegel, C.N. 2010. Native Plant Landscaping for Florida Wildlife. University Press of Florida, Gainesville, FL.

Huegel, C.N. 2015. Native Plants for Shady Landscapes. University Press of Florida, Gainesville, FL.

Nelson, G. 2003. Florida's Best Native Landscape Plants. University Press of Florida, Gainesville, FL.

Nelson, G. 2011. Botanical keys to Florida's trees, shrubs, and woody vines. A Guide to Field Identification. Pineapple Press, Inc. Sarasota, FL.

Osorio, R. 2001. *A Gardener's Guide to Florida's Native Plants*. University Press of Florida, Gainesville, FL. (Recommended)

Rogers, G.K. 2011. *Landscape Plants for South Florida*. George Rogers Publishing, Palm Beach Gardens, FL. (Recommended)

Snow, A.M. and S.E. Stans. 2015. *Healing Plants: Medicine of the Florida Seminole Indians*. The University Press of Florida, Gainesville.

Stibolt, G. 2015. *The Art of Maintaining a Florida Native Landscaping*. University Press of Florida, Gainesville.

Stibolt, G. and M. Shropshire. 2018. *A Step-by-step Guide to a Florida Native Yard*. The University Press of Florida, Gainesville.

Taylor, W.K. 2009. *A Guide to Florida Grasses*. University Press of Florida, Gainesville, FL.

Walton, D. And L. Schiller. 2007. *Natural Florida Landscaping*. Pineapple Press, Inc. Sarasota, FL

Wunderlin, R.P. and B.F. Hansen. 2011. *Guide to the Vascular Plants of Florida*. 3rd edition. University Press of Florida, Gainesville, FL

Wunderlin, R. and G.R. Kish. 2015. *Native Florida Plants for Drought- and Salt- Tolerant Landscaping*. Pineapple Press, Inc., Sarasota.

**Student Responsibilities:**

- ✓ *Attendance:* You are expected to attend all classes and activities
- ✓ *Preparation:* You are responsible for retrieving and/or printing course materials
- ✓ *Plant ID Quizzes:* In order to do well, you will need to spend considerable time studying the live plants and PowerPoints presented, and practicing rote memorization of the scientific and common names. There are no make-up quizzes unless prior approval is granted for extreme circumstances.
- ✓ *Handing in written assignments:* Unless otherwise stated, all assignments must be posted in e-learning and/or turned in prior to class on the due date.
- ✓ *Late or make-up assignments:* Assignments will be marked down 5 percentage points for each day late. Please remember, homework is assigned to prepare the student for class discussions. If you do not complete the assignments, your participation will suffer.
- ✓ *Completion of all assignments:* You must complete all assignments and participate in class in order to pass the course.

**Student Evaluation:**

You will be graded on the accuracy, conciseness, and grammar of your work. Any questions regarding your performance on any assignment are welcome. Grading follows University standards and will be based on the following:

**EXAMS**

Midterm exam .....	100 pts
Final exam .....	100 pts

**ID QUIZZES**

Quiz 1 (plants 1-20).....	20 pts
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Quiz 2 (plants 1-40).....	20 pts
Quiz 3 (plants 1-50).....	40 pts

**ASSIGNMENTS**

Assignment 1- Germination of native seed .....	10 pts
Assignment 2- Small container project .....	5 pts
Assignment 3- Plant lecture presentation.....	10 pts
Assignment 4- Guest lecture questions and answers (4) .....	10 pts
Assignment 5- Field trip summary report .....	5 pts

**PARTICIPATION**

Active attendance and participation in class and lab.....	5 pts
Participation in landscape design and installation .....	5 pts

TOTAL=330 POINTS

**Format:**

- *Hands-on Activities:* The use of tools and some outdoor, physical work can be expected. These outdoor activities are indicated in the syllabus so that you can dress appropriately.
  
- *Plant Identification:* Students will be exposed to almost 200 different plant species but only quizzed on 50 plants. There will be three cumulative ID exams. On test days, plan on taking a 20-minute quiz followed by other scheduled lab activities. Grading will be designated as follows: 4 points for genus, 4 points for species, 1 point for common name, 1 point for spelling. The quizzes are cumulative, meaning that by the end of the semester the identification test will cover all 50 plants.
  
- *Germination of Native Seed:* Each student will germinate one or more flats of seed provided in lab and monitor its growth and development. You will be responsible for the care of the seeded trays. Germination should be monitored and recorded once a week and graphed as percent germination over time. Results should be summarized and presented orally and/or in written format. This assignment should be posted in canvas. and is worth 10 points graded by a rubric.
  
- *Small Container Project:* Each student will be given a container for greenhouse plants to be transplanted into (you will choose the design and plants for your individual container). You will be responsible for caring for your container garden. This includes watering, fertilizing, weeding, protecting from unusual cold temperatures, etc. You will orally present your container garden to the class, after which you will be able to take it home. This assignment is worth 5 points.
  
- *Plant Lecture Presentation:* Students will either work independently or pair in teams of two or three *depending on the size of the class*. Your instructor will determine this at the beginning of the semester. Each group will choose the number of plants that represents the number of people in the group. Plants should be selected from: 1)the list of plants that are NOT highlighted in your comprehensive plant list (i.e., not covered by the instructor in class), 2)plants in the greenhouse or landscape, or 3)other plants that

are suitable for landscape use. A detailed species report (plant data sheet) will be prepared and presented to the class. The lecture should include: scientific name, common name, family botanical description, native range in Florida and the U.S. when applicable, growth form, size, flower description, culture, tolerances, propagation and use. Photos and information on closely related species, or other available cultivars are encouraged. Presentations may use PowerPoint, video, photography, hands-on activities, or other methods. Presentations should be downloaded in e-learning prior to assignment due date. This assignment is worth 10 points and will be graded using a rubric.

- *Guest Lecture Questions:* From the guest speakers, students will be asked to submit potential questions that the instructor *may* select to include on an exam. A total of four questions (with answers) are to be submitted in e-learning from any of the guest lectures. Questions are due 3 days prior to either the mid-term or final exam. Choose which exam you would like to submit questions for. *If one of your questions is selected, a total of 2 pts will be added to your total exam score!* This assignment is worth 10 points.

- *Field Trip:* During a scheduled class day we will take a field trip to a native plant nursery and 100% native yard. Students will summarize the nursery operation and/or yard in a one page or less report and submit the following week. This assignment is worth 5 points.

- *Landscape Installation Project:* As a group, students will design, install and maintain a section of Mehrhof Gardens. This activity is worth 5 points for participation.

**Grading Policy**

Final grades will be based on the follow scale:

93.5-100% .....	A	309-330 pts
89.5-93.4% .....	A-	296-308 pts
86.5-89.4% .....	B+	286-295 pts
82.5-86.4% .....	B	273-285 pts
79.5-82.4% .....	B-	263-272 pts
76.5-79.4% .....	C+	253-262 pts
72.5-76.4% .....	C	240-252 pts
69.5-72.4% .....	C-	230-239 pts
66.5-69.4% .....	D+	220-229 pts
62.5-66.4% .....	D	207-219 pts
59.5-62.4% .....	D-	197-206 pts
≤59.4%.....	E	≤196 pts

Please feel free to stop by, call or email your instructor(s) to discuss the class or your grades.

## ORH 3815/5817C – Florida Native Landscaping Schedule

Week	Date	Activity
1	Jan 5	<p>Introduction of students/faculty; Brian Owens-greenhouse safety; Tour of greenhouses</p> <p><b>Activity:</b> Propagation of natives: Seed germination</p>
2	Jan 12	<p><b>Lecture:</b> Defining Native Plants</p> <p><b>Live Zoom Speaker:</b> Cammie Donaldson, Executive Director, Florida Association of Native Nurseries/ Native Plant Horticulture Foundation- “Securing our Future with Native Plants”</p> <p><b>Activity:</b> Propagation of natives: Plug transplanting</p>
3	Jan 19	<p><b>In Person Speaker:</b> Dr. Bart Schutzman, Lecturer- “A Review of Native Plant Morphology”</p> <p><b>Plant ID Lecture:</b> Wilson- Plant ID List 1</p> <p><b>E-learning Speaker:</b> Stephen Brown, Extension Agent, Lee County. “South Florida Native Tree Identification” Parts 1 and 2.</p>
4	Jan 26	<p><b>Plant ID Lecture:</b> Wilson-Plant ID List 2</p> <p><b>E-learning Speaker:</b> Lloyd Singleton, Former Extension Agent, Florida-Friendly Landscaping; “Native Plant Use in Managed Communities”</p> <p><b>HERBARIUM VISIT</b>  <b>Gainesville-</b> UF Herbarium, Florida Museum of Natural History (<a href="https://www.floridamuseum.ufl.edu/herbarium/">https://www.floridamuseum.ufl.edu/herbarium/</a>), 379 Dickinson Hall. Tour provided by Dr. Marc Frank, Extension Botanist “Florida’s Flora and How to Prepare Voucher Specimens”</p>
5	Feb 2	<p><b>Plant ID Lecture:</b> Wilson-Plant ID List 3</p> <p><b>TREE UNIT VISIT</b>                  2977 SW 23<sup>rd</sup> Terrace Bldg 1356, UF, Gainesville                  Chris Harchick-Biological Scientist –“Years of Research used to Guide Growers and Arborists in Pruning and Planting Practices of Native Trees”-</p>

6	Feb 9	<p><b>Lecture:</b> Right Plant/right Place-How Native Ecosystem Associations Can Help</p> <p><b>ID Quiz 1 (plants 1-20)- Mehrhof Gardens</b></p>
7	Feb 16	<p>ALL DAY FIELD TRIP: Green Isle Gardens, 11303 Florida 33 Groveland, FL 34736 (<a href="https://www.greenislegardens.com">https://www.greenislegardens.com</a>)</p>
8	Feb 23	<p><b>Activity:</b> Individual Container Planting</p> <p><b>E-learning Speaker:</b> Meg Whitmer, Landscape Architect- “Native Designs that Work”</p> <p><b>Mid-term Exam</b></p>
9	March 2	<p><b>Lecture:</b> Native Alternatives to Ornamental Invasives</p> <p><b>Plant ID Lecture:</b> Wilson-Plant ID List 4</p> <p><b>E-learning Speaker:</b> Dr. Rachel Mallinger, Assistant Professor, Dept. Entomology and Nematology. “How can we support native wild bees in our Florida landscapes? ”</p>
10	March 9	<p><b>Spring Break</b></p>
11	March 16	<p><b>In Person Speaker:</b> Dr. Gail Hansen, Associate Professor- “ Novel landscapes: alternatives to traditional landscapes”- UF’s master landscape plan is discussed</p> <p><b>Individual Container Plant Presentations</b></p>
12	March 23	<p><b>FIELD TRIP</b>  <b>Gainesville-</b> Florida Wildflower Growers Cooperative (<a href="http://www.floridawildflowers.com">http://www.floridawildflowers.com</a>) 27715 NW 107 Street, Alachua FL 32615; vans will leave GNV at 2:00 pm and return by 5:00 pm</p>
13	March 30	<p><b>Activity:</b> Group Landscape Planting at Mehrhof Hall</p> <p><b>E-learning Speaker:</b> Dr. Jaret Daniels- Professor, Entomology and Nematology Department, “Maximizing Residential Landscape Resources for Insect Pollinators”.</p>

		<b>ID Quiz 2 (plants 20-40, plus review)- Mehrhof Gardens</b>
14	April 6	<b>Lecture:</b> The propagation of native plants <b>Plant ID Lecture:</b> Wilson-Plant ID List 5 <b>E-learning Speaker:</b> Dr. Jeff Norcini- OecoHort Consulting, FDOT State Wildflower Specialist- “Native Wildflower Gardening for Residential Landscapes” <b>Student Plant Lecture Presentations</b>
15	April 13	<b>Lecture:</b> Introduction of New Native Plants to the Market <b>Activity:</b> Crop Management <b>ID Quiz 3 (plants 1-50)- Mehrhof Gardens</b>
16	April 20	Greenhouse cleanup, plant giveaway <b>Final Exam</b>

\*UF classes begin Jan 5<sup>th</sup>, 2022, drop deadline April 8<sup>th</sup>, classes end April 20<sup>th</sup>, Reading days April 21-22, final Exams April 23-May 1. Holidays Jan 17<sup>th</sup>, March 5-12<sup>th</sup> (spring break).

### **Grades and Grade Points**

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>.

### **Attendance 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/UGRD/academic-regulations/attendance-policies/>.

### **COVID Response Statements**

For face to face courses a statement informing students of COVID related practices such as: We will have face-to-face instructional sessions to accomplish the student learning objectives of this course. In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions. • You are required to wear approved face coverings at all times during class and within buildings. Following and enforcing these policies and requirements are all of our responsibility. Failure to do so will lead to a report to the Office of Student Conduct and Conflict Resolution. • This course has been assigned a physical classroom with enough capacity to maintain physical distancing (6 feet between individuals) requirements. Please utilize designated seats and maintain appropriate spacing between students. Please do not move desks or stations. • Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at



the end of the class. • Follow your instructor's guidance on how to enter and exit the classroom. Practice physical distancing to the extent possible when entering and exiting the classroom. • If you are experiencing COVID-19 symptoms (Click here for guidance from the CDC on symptoms of coronavirus), please use the UF Health screening system and follow the instructions on whether you are able to attend class. Click here for UF Health guidance on what to do if you have been exposed to or are experiencing Covid-19 symptoms. • Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work. Find more information in the university attendance policies. For online course with recorded materials a statement informing students of privacy related issues such as: Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

### **Online Course Evaluation Process**

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at: <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at: <https://gatorevals.aa.ufl.edu/public-results/>.

### **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>.

### **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**

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.

• *University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575,*  
**[www.counseling.ufl.edu](http://www.counseling.ufl.edu)**

Counseling Services

Groups and Workshops

Outreach and Consultation

Self-Help Library

Wellness Coaching

• U Matter We Care, **[www.umatter.ufl.edu/](http://www.umatter.ufl.edu/)**

• *Career Connections Center, First Floor JWRU, 392-1601, <https://career.ufl.edu/>.*

Student Complaints:

- Residential Course: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>.
- Online Course: <http://www.distance.ufl.edu/student-complaint-process>