



Syllabus
Annual and Perennial Gardening
ORH 4804/5026C – Spring, odd years
3 Credits

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Course Description

Credits: 3: Prereq: Junior Standing

Identification, propagation selection, use and management of annuals, perennials, vines, ornamental grasses, geophytes, and ground covers in the landscape. Hands-on care for plants in the outdoor laboratory. Learn the irrigation, fertilization, pruning and cultural needs of these popular plants. Students will be exposed to almost 200 different plant species during the semester in both lecture and lab.

Meeting Location: PSF 5, Greenhouse Complex, Wednesdays 2:00-5:00 pm. Hybrid course will offer designated lectures online to complement live laboratory learning experiences.

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

- Identify and differentiate 50+ annual and perennial plant species by common and scientific name.
- Manage annual and perennial plant propagation and production via crop management activities and evaluation of crop performance.
- Recognize and evaluate major annual and perennial plant categories and families.
- Identify, describe and evaluate various types of specialty gardens and the key concepts, designs, and plants that are particular to each.
- Assess annual and perennial plant performance in existing landscapes, determine maintenance and installation design recommendations.

Suggested Optional Textbooks

Florida Gardener's Handbook: All you Need to Know to Plan, Plant & Maintain a Florida Garden. 2012. T. MacCubbin and G. Tasker (ISBN: 1591865425)

Your Florida Guide to Bedding Plants. 1997 R. Black and E. Gilman. UF/IFAS. (ISBN: 0916287173).

Your Florida Guide to Perennials. 2006. S. Park Brown & R. Schoellhorn, University Press of Florida (ISBN: 0813029279)

*Additional readings are listed by week.

Other Useful Readings: -Instructor has these reference books in her lab

Armitage, A.M. 2009. *The Color Encyclopedia of Garden Plants: Annuals/Perennials.* Timber Press, Inc. Portland, Oregon.

Armitage, A.M. 2011. *Armitage's Garden Perennials,* 2nd ed. Timber Press, Inc. Portland, Oregon.

Brickell, C. 2004. *The American Horticultural Society-A-Z Encyclopedia of Garden Plants.* DK Publishing, New York, NY.

Crawford, P. 2003. Best Garden Color for Florida. vol. 2. Color Garden Publishing, Inc., Lake Worth, FL.

Crawford, P. 2005. Container Gardens for Florida. Color Garden Inc. Color Garden Publishing, Inc., Lake Worth, FL.

Nau, J. 2011. Ball RedBook, vol. 2., 18th ed. Crop Production. Ball Publishing, West Chicago.

Still, S.M. 1994. Manual of Herbaceous Ornamental Plants, 4th ed. Stipes Publishing, Champaign, IL

Useful Websites

Wilson's course website: irrecenvhort.ifas.ufl.edu (course outline, pictures, syllabi, etc)

Elearning/CANVAS: elearning.ufl.edu (for syllabus, lectures, print-outs, additional readings, assignments, discussions, etc.)

Ball Seed Production Guides: <http://www.ballseed.com/QuickCulture/ProductionGuides/>

Proven Winners Plant Search: <https://www.provenwinners.com/plants/search>

Park Seed Flower Guide: <http://parkseed.com>

Student Responsibilities

- *Attendance:* You are expected to attend and participate in scheduled classes, <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>.
- *Preparation:* You are responsible for retrieving PP lecture notes and handouts through e-learning.
- *Plant ID Quizzes:* In order to do well in this lab, you will need to spend considerable time studying living plant samples and PowerPoints, and practicing rote memorization of the scientific and common names.
- *Submitting assignments:* Unless otherwise stated, all assignments must be turned in through e-learning.
- *Extra credit assignments:* The course requirements are clearly outlined in the syllabus. There is no option for Extra Credit Assignments.

Student Evaluation Format

Lecture materials will be tested using 2 exams comprised of multiple choice, short answer, true/false, matching and short essay questions. Any questions regarding your performance on any test are welcome. Please arrange an appointment whenever you need help or see instructor after class.

Plant identification materials will be tested using 3 Plant ID quizzes. On plant quiz days, plan on taking a 20-minute live quiz in Mehrhof or Fifield Gardens followed by other scheduled lab activities. The quizzes are cumulative, meaning that by the end of the semester the final identification quiz will cover all 50 plants.

There are 5 assignments that are outlined below. The use of tools and some outdoor, physical work can be expected. You will be notified when these outdoor activities are scheduled so that you can dress appropriately.

Germination of Annual/Perennial Seed: Each student will germinate one or more flats of seed provided in lab and monitor the four stages of plug development. You will be responsible for the care of the seeded trays and present the seedling performance orally (to be pre-recorded within canvas) and in written format (pdf of slides or word narration). Presentations may use PowerPoint, video, photography, or other digital presentation methods that can be submitted via CANVAS. This assignment is worth 20 points and will be graded using a rubric.

Individual 65 gal Container Project: Each student will be given a large container pot 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. Students will orally

present their container garden to the class (live in person) providing a written list of the species (submit in canvas) and why they were chosen. What would you have done differently, if anything? This assignment is worth 20 points and will be graded using a rubric.

Plant Lecture Presentation: Students will work in groups of two. Each group should choose plants from the list of plants that we are growing (not covered by instructor) or have in the greenhouse/landscape and complete a detailed species report that will be submitted in CANVAS. Your student lecture should include: scientific name, common name, botanical description, growth form, size, flower description, culture, tolerances, and use. Information on hybrid parentage, closely related species, or other available cultivars is encouraged. Creativity is encouraged as is live plant examples. Think of ways that will be engaging, informative, and help your classmates learn from you. This assignment is worth 20 points and will be graded using a rubric.

Field Trip: During a scheduled lab day we will take a field trip to a commercial plug producer or to an AAS ornamental trial site. Students will summarize the operation in a 1-2 page report and submit the report the following week in CANVAS. This assignment is worth 10 points. ***necessary modifications will be made for co-vid safety.

Pre and Post Course Assessment- a short list of questions to assess your knowledge before and after the course. These are each worth 5 pts and should be taken in Canvas.

Grading Summary- Grading follows University standards and will based on the following:

Distribution of Points

Lecture Exams	200
Mid-term exam (100 points)	
Final exam (100 points)	
Lab Plant ID Quizzes	80
Quiz 1=20 pts, Quiz 2=20 pts, Quiz 3=40 pts	
Project Assignments	80
Plant lecture (20)	
Germination of annual/perennial seed (20)	
Container design and presentation (20)	
Field trip report (10)	
Pre (5) and post (5) course assessments	
Total Course Points.....	360

TOTAL POINTS	PERCENTAGES	ASSIGNED GRADE
336.5 – 360.0	93.5–100.0%	A
301.0 – 336.4	89.5–93.4%	A-
250.0 – 300.9	86.5–89.4%	B+
221.0 – 249.9	82.5–86.4%	B
191.5 – 220.9	79.5–82.4%	B-
169.0 – 191.4	76.5–79.4%	C+
145.7 – 168.9	72.5–76.4%	C
120.9 – 145.6	69.5–72.4%	C-
101.7 – 120.8	66.5–69.4%	D+
83.0 – 101.6	62.5–66.4%	D
63.0 – 82.9	59.5–62.4%	D-
<62.9	<59.4%	E

***Graduate students will conduct a special project worth 35 points in addition to the assignments. Total possible course points for graduate students are 395 points.**

Annual and Perennial Gardening Schedule 2:00-5:00 pm

Week	Date	Lecture Topics	Lab Activity	Quizzes/Assignments/Readings	Point Value
1	Jan 13	Course Overview Introduction of students/faculty	Tour of greenhouses; Safety training-Brian Owens Plug planting	Read: North FL Gardening https://edis.ifas.ufl.edu/ep451 Do: Pre-course Assessment (5 pts)-Canvas	5
2	Jan 20	Cool Season Annuals- Parts I and II Annual and Perennial Terms and Concepts- Mack Thetford	Seed germination project Plant ID List 1-Wilson	Read: Gardening with Annuals in Florida https://edis.ifas.ufl.edu/mg319 Do: Download and review bee-friendly plant identification in the mobile bee application https://ffl.ifas.ufl.edu/bees	
3	Jan 27	Mini-nomenclature review- Bart Shutzman Propagation and Production systems		Read and Do: Lab Workbook Part I, Exercise #1-Tools of Plant Nomenclature	
4	Feb 3	Mini-morphology review- Bart Shutzman Plant Group- Annual Asteraceae	Plant ID List 2-Wilson	Read and Do: Lab Workbook Part II, Exercise #2-Leaf Terminology. Choose any 4 species from plant list to practice this. Read and Do: Lab Workbook Part III, Exercise #3-Flower Anatomy	
5	Feb 10	Principles of Landscape Design; Designing for Color- Gail Hansen Plant Group- Euphorbiaceae and Verbenaceae	Plant smaller containers to take home Plant large 65-gal containers for project	Read: Basic Principles of Landscape Design https://edis.ifas.ufl.edu/mg086 Do: Review bee-friendly landscape designs in the mobile bee application https://ffl.ifas.ufl.edu/bees Plant ID Quiz 1 (20 pts)	20
6	Feb 17	Geophytes (Bulbs, Corms and Tubers) – Mack Thetford Installation and Maintenance of Bedding Plants- Brian Pearson	Plant ID List 3-Wilson	Read: Bulbs for Florida https://edis.ifas.ufl.edu/topic_bulbous_flowers Read: Lab Workbook Part IV, Exercise #4- Site Analysis and Preparation, Soil Analysis Exam 1 (100 pts)	100
7	Feb 24	Tropical Perennials- Sydney Park Brown Perennial Vertical Gardening- Sydney Park Brown Plant Group-Perennial Asteraceae	Potential <i>all day</i> Field Trip, to Disney Horticulture, <i>co-vid pending</i> Alternative: Wildflowers of Florida Inc. 27715 NW 107th St Alachua, FL 32615	Read: Gardening with Perennials in Florida https://edis.ifas.ufl.edu/mg035 Read: All-American Selections Trialing Process. https://all-americanselections.org/about-aas-winners/ Read: Seed packets: An Economic Opportunity for Native Wildflower Seed Producers https://ufdcimages.uflib.ufl.edu/IR/00/00/17/69/00001/EP31800.pdf	
8	March 3	Ornamental Grasses – Mack Thetford	Plant ID List 4-Wilson	Read: Considerations for Selection and Use of Ornamental Grasses https://edis.ifas.ufl.edu/ep233	20

		Plant Group- Crassulaceae	Student Germination Presentations (20 pts)- <i>post in canvas</i>	Field Trip report due	10
9	March 10	Container Gardening- Wendy Wilber Plant Group Acanthaceae	Container gardening hands-on with Wendy Wilber	Plant ID Quiz 2 (20 pts) Read: Container Gardens for Outdoor Spaces https://edis.ifas.ufl.edu/ep326	20
10	March 17	Warm Season Annuals Molecular breeding of Begonia and Snapdragon for stress tolerance- Alfred Huo Plant Group- Lamiaceae	Student Container Presentations (20 pts) Plant ID List 5-Wilson Plant availability, Landscape assessment and design	Read: Development of a model mutagenesis system for snapdragon https://edis.ifas.ufl.edu/ep584 Read and Do: Lab Workbook Part V, Exercise #5- Plant selection and cost analysis	20
11	March 24	Groundcover Alternatives to Turfgrass Lawns- Gary Knox	Student Plant Lectures (20 pts)- <i>present in class</i> Landscape installment	Do: Review bee pollinator identification in the mobile bee application https://ffl.ifas.ufl.edu/bees	20
12	April 7	Pollinator Gardening – Heather Kalamán Optional- Butterfly gardening with Dr. Jaret Daniels Plants 1-50 Review	Student Plant Lectures- <i>continued</i>	Read: Butterfly Gardening in Florida https://edis.ifas.ufl.edu/uw057 Read: Attracting Bees to Your Florida Landscape https://edis.ifas.ufl.edu/in1255	5
13	April 14	Gardening with non- invasive cultivars- Sandy Wilson	Last Day of Lab	Read: Managing Mexican Petunia in your Home Landscape https://edis.ifas.ufl.edu/ep498 Read: ‘Bloomify Red’ and ‘Bloomify Rose’, Two Infertile <i>Lantana camara</i> Cultivars for Production and Use in Florida https://edis.ifas.ufl.edu/ep544 Do: Post Course Assessment (5 pts) Plant ID Quiz 3 (40 pts)	40
14	April 21		Last Day of Class Greenhouse cleanup; take home plants	Exam 2	100
				Total Points	360

*Classes begin Jan 11; classes end April 21; Reading days April 22-23; Final exams April 24-30

Course Policies and Campus Resources

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/>.

Fees: Materials and Supplies, \$50.00

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

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, go to <https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html> 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. Go to <https://coronavirus.uflhealth.org/screen-test-protect-2/frequently-asked-questions/covid-19-exposure-and-symptoms-who-do-i-call-if/> 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.

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*

Counseling Services

Groups and Workshops

Outreach and Consultation

Self-Help Library

Wellness Coaching

- U Matter We Care, 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>