Syllabus
Annual and Perennial Gardening
ORH 4804/5206C – 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.

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:

Lecture
- Recognize and evaluate major annual and perennial plant categories and choose annual and perennial plants suited to diverse regional climates.
- Identify, compare and contrast retail availability of annual and perennial plants across geographic regions and growth zones.
- Explain the importance of annual and perennial plant growth characteristics in assessing the potential use of problematic (invasive) annuals and perennials.
- 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, develop maintenance and installation design recommendations and compile lists of recommended plants based on application of basic landscape design principles related to specialty annual and perennial gardens.

Lab
- 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, evaluation of crop performance and interpretation of plant growth performance across geographic regions and growth zones.
- Critique annual and perennial plant use and practice implementation of garden design concepts through the development of specialty garden designs, compiling lists of recommended plants, and participating in critiques of specialty garden designs.

Suggested Optional Textbooks

Your Florida Guide to Bedding Plants. 1997 R. Black and E. Gilman. UF/IFAS.
Other Useful Readings: *Instructor has these reference books in her lab*


**Useful Websites**

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

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

Ball Seed Production Guides: [http://www.ballseed.com/QuickCulture/ProductionGuides/](http://www.ballseed.com/QuickCulture/ProductionGuides/)

Proven Winners Plant Search: [https://www.provenwinners.com/plants/search](https://www.provenwinners.com/plants/search)

Park Seed Flower Guide: [http://parkseed.com](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/](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.

- **Plant Identification:** Students will be exposed to almost 200 different plant species during the semester in both lecture and lab. A core set of plants representing several key groups of annual and perennial species are presented in CANVAS. During lab, students will learn plants in groups 10.

- **Written Assignments:** Four written/oral Garden Assignments are outlined below. These projects require you to visit local commercial landscapes and businesses that offer annual and perennial plants for sale. The dates these assignments are available in Canvas and the dates the assignments are due are listed on the course calendar and in the written instructions available to you in CANVAS. These assignments will require you to visit locations outside the classroom and also require you to collect specific data over several weeks. A full statewide summary of data will be prepared and provided to all
students as part of discussion questions that will appear on your exams or interactive online discussions via CANVAS or ZOOM.

**Student Evaluation Format**

Lecture will consist of 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.

Lab will consist of 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 and in written format. 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 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 choose plants from the list of plants that we are growing or have in the greenhouse/landscape and complete a detailed species report that will be submitted in CANVAS. (Plant selection should avoid plants presented in the plant group presentations from the lecture course). 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. 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.

- **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.

**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**

<table>
<thead>
<tr>
<th><strong>Lecture Exams</strong></th>
<th>.................................................................................................................................</th>
<th>200</th>
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</thead>
<tbody>
<tr>
<td>Mid-term exam (100 points)</td>
<td>Final exam (100 points)</td>
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<thead>
<tr>
<th><strong>Lab Plant ID Quizzes</strong></th>
<th>.................................................................................................................................</th>
<th>80</th>
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<tbody>
<tr>
<td>Quiz 1=20 pts, Quiz 2=20 pts, Quiz 3=40 pts</td>
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<tr>
<th><strong>Project Assignments</strong></th>
<th>.......................................................................................................................................</th>
<th>80</th>
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<tbody>
<tr>
<td>Plant lecture (20)</td>
<td>Germination of annual/perennial seed (20)</td>
<td>Container design and presentation (20)</td>
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**Total Course Points**............360

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<thead>
<tr>
<th>TOTAL POINTS</th>
<th>PERCENTAGES</th>
<th>ASSIGNED GRADE</th>
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<tr>
<td>336.5 – 360.0</td>
<td>93.5–100.0%</td>
<td>A</td>
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<tr>
<td>301.0 – 336.4</td>
<td>89.5–93.4%</td>
<td>A-</td>
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<tr>
<td>250.0 – 300.9</td>
<td>86.5–89.4%</td>
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<tr>
<td>221.0 – 249.9</td>
<td>82.5–86.4%</td>
<td>B</td>
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<tr>
<td>191.5 – 220.9</td>
<td>79.5–82.4%</td>
<td>B-</td>
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<tr>
<td>169.0 – 191.4</td>
<td>76.5–79.4%</td>
<td>C+</td>
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<tr>
<td>145.7 – 168.9</td>
<td>72.5–76.4%</td>
<td>C</td>
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<tr>
<td>120.9 – 145.6</td>
<td>69.5–72.4%</td>
<td>C-</td>
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<tr>
<td>101.7 – 120.8</td>
<td>66.5–69.4%</td>
<td>D+</td>
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<tr>
<td>83.0 – 101.6</td>
<td>62.5–66.4%</td>
<td>D</td>
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<tr>
<td>63.0 – 82.9</td>
<td>59.5–62.4%</td>
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<tr>
<td>&lt;62.9</td>
<td>&lt;59.4%</td>
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*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.*
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture Topics</th>
<th>Live Lectures/Lab Activity</th>
<th>Quizzes/Assignments/Reading</th>
<th>Point Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 13</td>
<td>Course Overview</td>
<td>Introduction of students/faculty; Tour of greenhouses; Brian Owens-safety training; Plug planting, seed germination</td>
<td>Read: North FL Gardening <a href="https://edis.ifas.ufl.edu/ep451">https://edis.ifas.ufl.edu/ep451</a></td>
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<td></td>
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<td>Do: Pre-course Assessment (5 pts)</td>
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<tr>
<td>2</td>
<td>Jan 20</td>
<td>Cool and Warm Season Annuals-Thetford</td>
<td>Plug and/or seed planting continued Wilson-Plant ID List 1</td>
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<td>3</td>
<td>Jan 27</td>
<td>Basic Principles of Landscape Design - Hansen</td>
<td>Shutzman- mini-homenclature review</td>
<td>Read: Basic Principles of Landscape Design <a href="https://edis.ifas.ufl.edu/mg086">https://edis.ifas.ufl.edu/mg086</a></td>
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<td>Propagation and Production systems – Wilson</td>
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<td>4</td>
<td>Feb 3</td>
<td>Installation and Maintenance of Bedding Plants - Pearson</td>
<td>Shutzman-mini-morphology review Wilson-Plant ID List 2</td>
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<tr>
<td></td>
<td></td>
<td>Plant group Asteraceae</td>
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<td>5</td>
<td>Feb 10</td>
<td>Euphorbiaceae and Verbenaceae</td>
<td>Plant ID Quiz 1 (20 pts)</td>
<td>Read: Gardening with Annuals in Florida <a href="https://edis.ifas.ufl.edu/mg319">https://edis.ifas.ufl.edu/mg319</a></td>
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<td>Read: Gardening with Perennials in Florida <a href="https://edis.ifas.ufl.edu/mg035">https://edis.ifas.ufl.edu/mg035</a></td>
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<td></td>
<td>Plant ID Quiz 1</td>
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<td>6</td>
<td>Feb 17</td>
<td>Geophytes (Bulbs, Corms and Tubers) – Thetford</td>
<td>Wilson-Plant ID List 3 Exam 1 (100 pts)</td>
<td>Read: Bulbs for Florida <a href="https://edis.ifas.ufl.edu/topic_bulbous_flowers">https://edis.ifas.ufl.edu/topic_bulbous_flowers</a></td>
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<td>Exam 1</td>
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<td>7</td>
<td>Feb 24</td>
<td>Plant Group Crassulaceae</td>
<td>Potential all day Field Trip, to Disney Horticulture, co-vid pending</td>
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<td>8</td>
<td>March 3</td>
<td>Ornamental Grasses - Thetford</td>
<td>Wilson-Plant ID List 4 Student Germination Presentations (20 pts)</td>
<td>Read: Considerations for Selection and Use of Ornamental Grasses <a href="https://edis.ifas.ufl.edu/ep233">https://edis.ifas.ufl.edu/ep233</a></td>
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<td>Field Trip report due</td>
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<td>9</td>
<td>March 10</td>
<td>Container Gardening-Wilber</td>
<td>Student Germination Presentations - continued</td>
<td>Plant ID Quiz 2</td>
<td>20</td>
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<td>Plant Group Acanthaceae</td>
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<td>10</td>
<td>March 17</td>
<td>Rain Gardens Wildflower Gardening</td>
<td>Student Container Presentations (20 pts)</td>
<td>Read: Container Gardens for Outdoor Spaces <a href="https://edis.ifas.ufl.edu/ep326">https://edis.ifas.ufl.edu/ep326</a></td>
<td>20</td>
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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.uhealth.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