Class will meet at 5 pm CST in the UF Greenhouses on the Milton Campus of PSC. Maximum capacity for each greenhouse structure is 8 people. Alternative meeting days and times may be arranged with the instructor as the class progresses. Please keep on your masks and practice distancing requirements.

We typically have a field trip in this class but will revisit the subject as the semester progresses. If we can schedule a field trip we will maintain ALL Covid19 safety protocols. The Campus vans will not be available for transportation so we will coordinate as a class the best alternatives so that you may participate in the experience if it is scheduled. A minimum alternative will be that I visit the business and work with the owners/staff to prepare a video for your review.

Course Description and Objectives

Description of course: The propagation of plants is of fundamental importance to any individual in horticulture or for that matter, any individual in the plant sciences. This Laboratory course is a study of the principles and practices involved in methods of sexual (seed) and asexual (vegetative) propagation on a variety of plants. Methods of vegetative propagation studied will include propagation by cuttings, layering grafting and budding, division, separation, and micropropagation (tissue culture). Time of propagation, media, importance of sanitation, and intermittent mist propagation will be extensively studied and stressed.

Course objectives:
• To provide students with theoretical and practical knowledge about most types of sexual and asexual propagation which will enable students to function in most commercial operations involving propagation of various plants.
• To develop a level of skill in the art and techniques of sexual and asexual plant propagation.
• To provide hands-on field practice in the application of sexual and asexual plant propagation.

Course Prerequisites: BOT 2010C or BSC 2010 Course Corequisite: PLS 3223

Course Materials:

website:  http://irrecenvhort.ifas.ufl.edu/Propagation/index.html

Sample propagation exercises and experiments are provided with data sets, photographs, and thought questions to assist you in evaluating the outcome of the experiments. Your local instructor will determine which of these materials to utilize at your site.

Course Textbook:
*There also will be supplemental reading material available online.
Student Evaluation

Regional environment, available facilities, and plant availability will dictate the specific laboratory activities at each site. Hence, instructors may vary the format of the products you turn in for grading, ie you may submit all products in the format of a lab notebook. Each site instructor will provide a description of the lab activities and a tentative schedule at the first meeting of the class.

Activities will include demonstration or investigation of Seed Germination, Propagation environments and substrates, Asexual plant propagation (includes testing of auxins, cutting types), Grafting, Propagation by specialized stems or roots, and Layering. Demonstration or participation in tissue culture procedures. Where possible, instructors will work with students to coordinate field trip(s) to area facilities to provide exposure to commercial propagation operations.

Grades for the course will be based on a total of 100 points, allocated as follows:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Questions</td>
<td>40%</td>
</tr>
<tr>
<td>Laboratory Exercise Reports</td>
<td>40%</td>
</tr>
<tr>
<td>Oral presentation/discussion of Lab summaries or Field Trip reports</td>
<td>5%</td>
</tr>
<tr>
<td>Lab Practical Exam</td>
<td>15%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Grading follows University standards and will based on the following scale:

94-100%   A
90-93%     A-
87-89%     B+
83-86%     B
80-82%     B-
77-79%     C+
73-76%     C
70-72%     C-
67-69%     D+
63-66%     D
60-62%     D-
<59%       E
**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/honorcodes/honorcode.php.

It is assumed all work will be completed independently unless the assignment is defined as a group project, in writing by the instructor. This policy will be vigorously upheld at all times in this course.

**Computer Requirement:** Access to and on-going use of a computer are required of all students to complete their degree programs successfully. The university expects each student entering the university and continuing students to acquire computer hardware and software appropriate to the degree program. Competency in the basic use of a computer is a requirement for graduation (www.circa.ufl.edu/computers).

E-learning technical support, 352 392-4357 (select option 2) or e-mail learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml

**Counseling Center:** The University Counseling Center offers counseling services to currently enrolled students for personal, career and educational concerns (www.counsel.ufl.edu).

**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 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

**Academic Resources**


**Library Support,** http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.


**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, http://www.dso.ufl.edu/drc/

**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:** The tentative lecture schedule is presented below. However, this schedule is subject to change at the instructor’s notice and is subject to weather and day length constraints.

**NOTE:** The visual aspects and memorization requirements of this course make it imperative that students view all lectures, read all handouts.

**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.
COVID RELATED PRACTICES:
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) (https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html), 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 (https://coronavirus.ufhealth.org/screen-test-protect/covid-19-exposure-and-symptoms-who-do-i-call-if/).

• 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 (https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/).

In the event we must transition to 100% online instruction we will utilize Zoom meetings for review sessions. The University policy below governs your agreement to engage your camera if the meeting is to be recorded.

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.