



HOS 3012L: Horticulture Science Lab Syllabus for Fall 2017 (1 credit)

Instructor: Dr. Amir Khoddamzadeh
AHC-5 391, Phone: 305-348-3083
Email: akhoddam@fiu.edu

Class Schedule: Wednesday, 3:30 – 6:00 pm

Class Room: Owa Ehan (OE) 161

Office Hours: Tuesdays and Thursdays 10:00 am- 12:00 pm, walk-in and by arrangement
(preferably via *e-mail*)

COURSE DESCRIPTION

✓ This course is designed to provide a broad range of training in practical horticulture to any student who likes to work with plants. Students will gain practical knowledge on plant propagation techniques, nursery management and production, pruning, and lawn care, seed testing and evaluation, and tissue culture.

COURSE OBJECTIVES

➤ Upon completion of this class, students will have the basic knowledge and skills in horticulture. With practical experience, students will be familiar with a wide range of subject matter including plant identification, propagation, plant tissue culture, seed biology, controlled environment production, pruning, and lawn care, plants for interior uses, and fruits and ornamentals.

PREREQUISITES

AGR 3930 Agriculture Colloquium, HOS 3012 or permission of the instructor.

TEXTBOOK

Plant Science - Growth, Development, and Utilization of Cultivated Plants, 5th Edition, by McMahon *et al.*

Introduction to Horticulture Science. 2nd Edition, by Richard Arteca.

Laboratory Manual of Horticulture - With Illustrations of Methods, Equipment, And Apparatus, 2013 by George William Hood.

Plant Tissue Culture, Development, and Biotechnology by Robert N. Trigiano, Dennis J. Gray Houtman.

The Ecker Poinsettia Manual, 2004 by Paul Ecker, James E. Faust, Jack A. Williams, and Andy Higgins.

COURSE REQUIREMENTS AND POLICIES

Prior to coming to the theory discussion session, each student is required:

- ✓ On-time participation in all scheduled class activities is required. Absenteeism and/or nonparticipation not only preclude a student's learning the material in this course, but also will likely affect his/her performance.
 - ✓ All electronic devices must be turned off/muted during class. Failure to comply with this rule, may result in the student being excused from class.
 - ✓ Reading of the assigned chapters from the textbook and additional readings from *Blackboard* prior to class is expected.
 - ✓ Learn from the diverse group of people in the class by listening and considering what each person says and writes. You may disagree, but it must be in a way that shows respect and values each person.
- Please note: All field trips are tentative and subject to change

INTERNET RESOURCES

- ✓ This is a web assisted course. A course webpage will be maintained with Blackboard Learn.

Additional course materials contain this syllabus articles, short videos, and the announcements will be posted on **Blackboard**

- To access this resource, go to <https://ecampus.fiu.edu/> and click on **Blackboard** under the **Login** menu. In the Blackboard Login window enter your FIU MyAccounts User

Name and Password. Select HOS 3012 –Horticulture Science Lab- Section U01 – Fall 2017. For help with Blackboard, click the Student menu on the e-campus website call the UTS Help Center at (305) 348-2284.

Format

- The lab portion of the class will consist of three main experiments: 1. Seed testing and evaluations, 2. Nursery production and management, and 3. Orchid tissue culture.
- Projects will be expected to submit with the format of research article.
- Reports will be based on the visits from botanical gardens and tropical fruit nursery.
- Students will make a 20 min presentation to the class. Grading will be based on quality and thoroughness of investigation, as well as delivery.

ESTIMATED POINTS

Experiments (1, 2, and 3)	45%
Reports (3)	30%
Class Participation	5%
Final Presentation	20%

GRADING SCALE

A: 100% - 93%; A-: 92% - 90%; B+: 89% - 87%; B: 86% - 83%; B-: 82% - 80%; C+: 79% - 77%; C: 76% - 70%; D: 69 – 60; F: <60%.

EARLY ALERT

In an effort to help you succeed in your academic courses, FIU utilizes an Early Alert system. Instructors are now able to notify students’ academic advisors if there are concerns about class performance. If an alert is submitted, your academic advisor will send you a message via your Student Dashboard (accessed via your MYFIU page) to discuss ways to improve your performance. Please respond to any communication you receive from your academic advisor about an early alert. Our goal with this program is to help you to be successful by identifying any issues as early on as possible and working to address them.

HONOR CODE

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the *Student Handbook* and through the following link:

<http://academic.fiu.edu/AcademicBudget/misconductweb/1acmisconductproc.htm>.

CHEATING AND PLAGIARISM are violations of the academic honesty section of the FIU student code of conduct and will be reported to Judicial Services. Plagiarism is a serious offence will not be taken lightly. Plagiarism can be intentional (copying another student's work, collaborating too closely with another student) or unintentional (not citing all references, collaborating too closely with another student.) The best ways to avoid unintentional plagiarism are to reference all outside information, and to do all work on your own. If you have any questions about what is plagiarism, please ask the instructor. Instructors may use plagiarism detection software (such as turnitin.com) to determine if plagiarism has taken place. Suspected acts of plagiarism may be investigated and taken to the FIU Grievance Committee. Plagiarism will result in you receiving a 0 grade for your assignment (no exceptions) and may also result in your suspension or expulsion from the University.

SEXUAL HARASSMENT POLICY

FIU's sexual harassment policy is available at:

http://hr.fiu.edu/index.php?name=sexual_harassment

Course Schedule:

Week	Date	Topic
1	Aug. 23	Welcome and Course Overview Role of Horticulture in the World
2	Aug. 30	Nursery Production and Management – Poinsettia “Experiment 1”
3	Sept. 6	‘Meet at Greenhouse’
4	Sept. 13	Plant Propagation by Seed and Vigor Tests Evaluation on Variety of Vegetables and Flowers – “Experiment 2”
5	Sept. 20	Continued Experiment “1 and 2”
6	Sept. 27	Plant Growth Regulators (PGRs)
7	Oct. 4	Visit the Fairchild Tropical Botanic Garden - “Report 1”
8	Oct. 11	Vegetative Propagation ‘Meet at Organic Garden’
9	Oct. 18	Visit the Pine Island Nursery - “Report 2”
10	Oct. 25	Orchid Tissue Culture – “Experiment 3”
11	Nov. 1	
12	Nov. 8	Visit the Montgomery Botanical Center - “Report 3”
13	Nov. 15	Poinsettia Sales Event
14	Nov. 22	Final Project Presentations
15	Nov. 29	

The Instructor reserves the right to change the outline, readings and dates of materials and the field trips covered in this course.