

## HOS 6545 – Advanced Citriculture I – Fall 2017

### Syllabus

Instructor: Christopher Vincent

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Office Hours: by appointment

Class meeting time: Tuesdays 3-5pm, Thursdays 4-5pm

**Course description:** 3 credits.

This course should provide you with an understanding of the biological and ecological processes involved in citrus production, with consideration of economic factors. Upon completion of the course you should:

- Understand the major challenges facing citrus producers today.
- Have an understanding of citrus crops' unique biological characteristics and Florida's unique ecological characteristics, and their importance in management.
- Have sufficient knowledge of management to make recommendations regarding basic management decisions, and be able to find relevant and trustworthy information for advanced management decisions.

This course will be taught at the UF Citrus Research & Education Center in Lake Alfred, FL, and Polycom video conferencing will be arranged for Gainesville-based students, and for those at other RECs, assuming prior communication with the instructor.

### **Format**

Class will include two lecture periods and one discussion period each week. Lectures will be oriented toward conveying topical overviews and technical knowledge, and discussions will consider a specific paper or management-related question in light of that week's lectures. Students lead discussion.

## Schedule

Topics may change, an updated list will be available on the first day of class.

Date	Section	Topic	Guest lecture
8/22/17	Ecology and biology	Florida climate and edaphic conditions	
8/24/17		Humid subtropical ecology	
8/29/17		Citrus environmental physiology	
8/31/17		Developmental physiology	
9/5/17		Citrus genus evolution, diversity and ecology	*
9/7/17		Root biology	
9/12/17		Cold tolerance and breeding	*
9/14/17		Nutrition	
9/19/17	Production management	Canopy architecture	*
9/21/17		Crop load management	*
9/26/17		Soil fertility management	*
9/28/17		Propagation and nursery management	
10/3/17		Precision agriculture applications	*
10/5/17		Planting design	*
10/10/17		Fruit development	
10/12/17	Economics	Labor management	
10/17/17	Pest and disease management	HLB - Vector biology	*
10/19/17		HLB - Vector biology	*
10/24/17		<i>Candidatus liberibacter asiaticus</i>	*
10/26/17			
10/31/17		Emerging pathogens	*
11/2/17		Viral diseases of citrus	*
11/7/17		Citrus canker	
11/9/17	Economics	Citrus market overview	
11/14/17		Biotechnology-improvement	*
11/16/17		Biotechnology/improvement	*
11/21/17		Weed management	*
11/23/17	Economics	Public perception of GE crops	
11/28/17		Intensive management	*
11/30/17	Post-harvest management	Juicing processes and safety	*
12/5/17		Packing house operations	*

**Reading Materials:** The course reading will focus on the primary literature related to each of the above topics. PDF versions of the required reading will be provided prior to each lecture.

**Grading:** Grades will be determined by discussion participation (25%), extension presentations (35%), and a semester research paper or research proposal (40%). For information on current UF policies for assigning grade points, see

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

**Absences 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/ugrad/current/regulations/info/attendance.aspx>.

**Additional information:**

*Academic Honesty:*

The University of Florida requires all members of its community to be honest in all endeavors. Cheating, plagiarism, and other acts diminish the process of learning. When students enroll at UF they commit themselves to honesty and integrity. Your instructor fully expects you to adhere to the academic honesty guidelines you signed when you were admitted to UF. As a result of completing the registration form at the University of Florida, every student has signed the following statement: *“I understand the University of Florida expects it students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.”* Furthermore, on work submitted for credit by UF students, 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 to be assumed all work will be completed independently unless the assignment is defined as group project, in writing by the professor. This policy will be vigorously upheld at all times in this course.

*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:*

Students experiencing crisis or personal problems that interfere with their general wellbeing are encouraged to utilize the university’s counseling resources. Both the Counseling Center and

Student Mental Health provide confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal or lacking clear career and academic goals, which interfere with their academic performance. The Counseling Center is located at 301 Peabody Hall (next to Criser Hall). Student Mental Health is located on the second floor of the Student Health Services in the Infirmary. 1. *University Counseling Center*, 301 Peabody Hall, 392-1575; personal and career counseling: [www.counsel.ufl.edu](http://www.counsel.ufl.edu)

2. *Student Mental Health*, Student Health Care Center, 392-1171, personal counseling: [www.hsc.ufl.edu/shcc/smhs.htm](http://www.hsc.ufl.edu/shcc/smhs.htm) 3. *Sexual Assault Recovery Services (SARS)*, Student Health Care Center, 392-1161, sexual assault counseling; and

4. *Career Resource Center*, Reitz Union, 392-1601, career assistance and counseling.

#### *Students with Disabilities Act:*

The Dean of Students Office coordinates the needed accommodations of students with disabilities. This includes the registration of disabilities, academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services, and mediating faulty-student disability related issues. *Dean of Students Office*, 202 Peabody Hall, 392-7066, [www.dso.ufl.edu](http://www.dso.ufl.edu).

#### **Absences**

Students are responsible for satisfying all academic objectives as defined by the instructor. Absences count from the first class meeting. In general, acceptable reasons for absence from class include illness, serious family emergencies, special curricular requirements (e.g., judging trips, field trips, professional conferences), military obligation, severe weather conditions, religious holidays and participation in official university activities such as music performances, athletic competition or debate. Absences from class for court-imposed legal obligations (e.g., jury duty or subpoena) must be excused. Other reasons also may be approved.

You cannot attend classes unless you are registered officially or approved to audit with evidence of having paid audit fees. The Office of the University Registrar provides official class rolls to instructors. If you do not attend at least one of the first two class meetings of a course or laboratory in which you are registered, and you have not contacted the department to indicate your intent, you can be dropped from the course. You must not assume that you will be dropped, however, if you fail to attend the first few days of class. By posting a notice in the department office, the department will notify you if you have been dropped from the course or

laboratory. You can request reinstatement on a space-available basis if you present documented evidence. The university recognizes the right of the individual professor to make attendance mandatory. After due warning, professors can prohibit further attendance and subsequently assign a failing grade for excessive absences.

## **Religious Holidays**

The Florida Board of Education and state law govern university policy regarding observance of religious holidays. The following guidelines apply:

- Students, upon prior notification to their instructors, shall be excused from class or other scheduled academic activity to observe a religious holy day of their faith.
- Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence.
- Students shall not be penalized due to absence from class or other scheduled academic activity because of religious observances.

If a faculty member is informed of or is aware that a significant number of students are likely to be absent from class because of a religious observance, the faculty member should not schedule a major exam or other academic event at that time. A student who is to be excused from class for a religious observance is not required to provide a second party certification of the reason for the absence. Furthermore, a student who believes that he or she has been unreasonably denied an education benefit due to religious beliefs or practices may seek redress through the student grievance procedure.

## **Illness Policy**

If you are absent from classes or examinations because of illness you should contact your professors. You should contact your college by the deadline to drop a course for medical reasons. After the college petition deadline, you can petition the University Committee on Student Petitions to drop a course for medical reasons. The university's policy

regarding [medical excuse](#) from classes is maintained by the Student Health Care Center.

## **Twelve-Day Rule**

Students who participate in athletic or extracurricular activities are permitted to be absent 12

scholastic days per semester without penalty. (A scholastic day is any day on which regular class work is scheduled.) Instructors must be flexible when scheduling exams or other class assignments.

The 12-day rule applies to individual students participating on athletic or scholastic teams. Consequently, a group's schedule that requires absence of more than 12 days should be adjusted so that no student is absent from campus more than 12 scholastic days. If you previously have been warned about absences or unsatisfactory work you should not incur additional absences, even if you have not been absent 12 scholastic days. It is

the your responsibility to maintain satisfactory academic performance and attendance.