Postharvest Technologies for Horticultural Crops  
HOS 5330, Section 0101  

Thursdays, Periods 9, 10 (4:05 – 6:00 PM)  
2318 Fifield Hall  

Spring 2016 Syllabus  

Instructors  
Steven A. Sargent, Ph.D.  Professor  
Mark A. Ritenour, Ph.D.  Associate Professor  

Office  
Horticultural Sciences Department  
1211 Fifield Hall, campus  
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2199 S. Rock Road, Ft. Pierce FL 34945  
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Office Hours – Sargent and Ritenour:  
Thursdays 3:00-3:45 PM on class days, or by appointment.  

Course Technical Assistant: Adrian Berry, adberry@ufl.edu  

Course Website  
Materials, resources and assignments will be accessible at:  
http://irrec.ifas.ufl.edu/postharvest/HOS5330.shtml  

Catalog Description  
Prerequisite:  
HOS 5085 suggested. Open to graduate students, and to upper-division undergraduate students (with instructor consent).  

Description:  
Intensive study of current technologies and procedures for harvesting and handling fresh fruit, vegetable, and ornamental crops grown in Florida. Requires field trip during spring break. Offered spring semesters.  

Course Learning Objectives  
1) To familiarize students with the current commercial methods used to harvest, pack, transport and market fresh horticultural crops grown in Florida, with emphasis on maintaining product quality and safety.  
2) To prepare students to systematically evaluate and critically analyze these operations based on field trip experiences and course assignments.  

Course Format, Expectations and Evaluation  
The class will meet weekly prior to a 5-day field trip to central and south Florida during Spring Break. Students will self-divide into interdisciplinary teams and will work together to write a field trip journal. The field trip will provide students with first-hand experience with principles of postharvest physiology and the technologies used to maintain quality and food safety of fresh
fruits and vegetables from harvest through packing, handling and transportation. Each student will also select a topic related to postharvest technology and physiology and write an individual technical report.

Lecture Topics and Field Trips:
1. Postharvest Losses and Systems Analysis; Produce Quality
2. Postharvest Physiology for Horticultural Crops
3. Harvest and Handling Operations; Temperature Management
4. Storage and Shipping Operations; Postharvest Treatments
5. Sanitation and Food Safety
6. Field trip to local supermarket produce department
7. Spring Break field trip
8. In-class review/discussion of field trip

Course grading:
- During the field trip students will maintain a written log of observations for each visit. Observations should include pertinent information including a description of the operation visited, crops, handling methods, and their impacts on quality. Afterwards the team will prepare a written journal (pdf file) that collates team members’ observations in a neatly organized and illustrated manner. (50% of grade)

- Each student will develop and write a technical report on a predetermined technology using examples and details observed during the field trip and pertinent literature. The goal of the technical report is to describe how fresh produce quality is maintained (or lost) by the appropriate use (or misuse) of the selected technology. (50% of grade)

- In-class participation in group assignments and discussions is critical to successful completion of this course.

All assignments will be submitted in pdf format for grading and will be returned at the end of the semester.

Reference Text (online)

Recommended Text

Supplemental materials will be provided by the instructors as necessary.
Grades and Grade Points
For information on current UF policies for assigning grade points, see https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Attendance and Make-Up Work
Class attendance and field trip participation are required. University policies can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx.

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. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open for students to complete during the last two or three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results.

Academic Honesty, Software Use, UF Counseling Services and Services for Students with Disabilities

Grades and Grade Points
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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.

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.
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 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/cwc/
  Counseling Services
  Groups and Workshops
  Outreach and Consultation
  Self-Help Library
  Training Programs
  Community Provider Database

- Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/

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, www.dso.ufl.edu/drc/