

Cover Sheet: Request 12995

HOS 3020C Principles of Horticultural Crop Production

Info

Process	Course Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Gerardo Nunez Villegas g.nunez@ufl.edu
Created	9/5/2018 11:52:11 AM
Updated	9/21/2018 5:07:32 PM
Description of request	We request to change HOS 3020 from 3 to 4 credit hours to add a lab and thus the C code.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Horticultural Sciences 514923000	Christine Chase		9/5/2018
No document changes					
College	Approved	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Edits requested by the CALS CC have been addressed.	9/21/2018
Syllabus HOS 3020C - Principles of Horticulture Crop Production - After CALS CC.pdf					9/21/2018
HOS 3020 Syllabus Fall 2017.pdf					9/21/2018
Support letter HOS3020C.pdf					9/21/2018
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			9/21/2018
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|Modify for request 12995

Info

Request: HOS 3020C Principles of Horticultural Crop Production

Description of request: We request to change HOS 3020 from 3 to 4 credit hours to add a lab and thus the C code.

Submitter: Gerardo Nunez Villegas g.nunez@ufl.edu

Created: 9/21/2018 10:26:44 AM

Form version: 5

Responses

Current Prefix

Enter the current three letter code (e.g., POS, ATR, ENC).

Response:
HOS

Course Level

Select the current one digit code preceding the course number that indicates the course level at which the course is taught (e.g., 1=freshman, 2=sophomore, etc.).

Response:
3

Number

Enter the current three digit code indicating the specific content of the course based on the SCNS taxonomy and course equivalency profiles.

Response:
020

Lab Code

Enter the current lab code. This code indicates whether the course is lecture only (None), lab only (L), or a combined lecture and lab (C).

Response:
None

Course Title

Enter the current title of the course as it appears in the Academic Catalog.

Response:
Principles of Horticulture Crop Production

Effective Term

Select the requested term that the course change(s) will first be implemented. Selecting "Earliest" will allow the change to be effective in the earliest term after SCNS approval. If a specific term and year are selected, this should reflect the department's expectations. Courses cannot be changed retroactively, and therefore the actual

effective term cannot be prior to SCNS approval, which must be obtained prior to the first day of classes for the effective term. SCNS approval typically requires at least 6 weeks after approval of the course change at UF.

Response:
Earliest Available

Effective Year

Select the requested year that the course change will first be implemented. See preceding item for further information.

Response:
Earliest Available

Requested Action

Indicate whether the change is for termination of the course or any other change. If the latter is selected, all of the following items must be completed for any requested change.

Response:
Other (selecting this option opens additional form fields below)

Change Course Prefix?

Response:
No

Change Course Level?

Note that a change in course level requires submission of a course syllabus.

Response:
No

Change Course Number?

Response:
No

Change Lab Code?

Note that a change in lab code requires submission of a course syllabus.

Response:
Yes

Current Lab Code

Response:
None

Proposed Lab Code

Response:
C

Change Course Title?

Response:
Yes

Current Course Title

Response:
Principles of Horticulture Crop Production

Proposed Course Title

Response:
Principles of Horticultural Crop Production

Change Transcript Title?

Response:
No

Change Credit Hours?

Note that a change in credit hours requires submission of a course syllabus.

Response:
Yes

Current Credit Hours

Response:
3

Proposed Credit Hours

Response:
4

Change Variable Credit?

Note that a change in variable credit status requires submission of a course syllabus.

Response:
No

Change S/U Only?

Response:
No

Change Contact Type?

Response:
No

Change Rotating Topic Designation?

Response:
No

Change Repeatable Credit?

Note that a change in repeatable credit status requires submission of a course syllabus.

Response:
No

Maximum Repeatable Credits

Enter the maximum credits a student may accrue by repeating this course.

Response:
0

Change Course Description?

Note that a change in course description requires submission of a course syllabus.

Response:

Yes

Current Course Description

Response:

Provides a basic understanding of the world fruit and vegetable industry. Emphasizes world, U.S. and Florida production regions, biology, soils, nutrition, terminology, types of fruits and vegetables, site selection and more.

Proposed Course Description (50 words max)

Response:

This course introduces students to concepts and practices used to produce fruit and vegetable crops in Florida, the U.S., and globally. Topics covered include production regions, crop biology, crop nutrition, types of fruits and vegetables, disease and pest management, and marketing. This course includes a hands-on practicum.

Change Prerequisites?

Response:

Yes

Current Prerequisites

Response:

None

Proposed Prerequisites

Response:

BOT2010C or equivalent

Change Co-requisites?

Response:

No

Rationale

Please explain the rationale for the requested change.

Response:

We request to change HOS3020 from 3 to 4 credit hours, and to add "C" code. This change reflects instructor and program interest in increasing and enhancing experiential learning activities in the course. Additionally, student evaluations for this course have consistently called for more hands-on activities in the teaching garden.

HOS 3020 – Principles of Horticultural Crop Production

3 credits

Fall Semester 2017

MWF Period 3, 9:35-10:25 AM

2316 Fifield

Course Description and Requirements

Instructors:

Dr. Xin Zhao

1235 Fifield Hall

352-273-4773

Email: zxin@ufl.edu

Dr. Rebecca L. Darnell

1131 Fifield Hall

352-273-4789

Email: rld@ufl.edu

Course Website: To be announced during the first week of class

Prerequisites:

This introductory course is intended for students who have no prior coursework in fruits and vegetables, although participation by those with horticulture backgrounds is encouraged. It is desirable for students to have some background in plant science, but not necessary. Students from many different backgrounds have performed well in this course in the past.

Texts:

Some of the lectures will be presented in PowerPoint and will be available on the course website, or lecture outlines will be provided in class.

Three textbooks (optional) are recommended for the vegetable portion of the course (on Course Reserve at Marston Science Library):

- 1) John M. Swiader and George W. Ware. 2002. Producing vegetable crops. Fifth edition. Interstate Publishers, Inc.
- 2) Vincent E. Rubatzky and Mas Yamaguchi. 2012. World vegetables: Principles, production and nutritive values. Second edition. Springer.
- 3) Donald N. Maynard and George J. Hochmuth. 2007. Knott's handbook for vegetable growers. Fifth edition. John Wiley & Sons, Inc.

One text for the fruit section of the class is optional:

- 1) D. Jackson, N. Looney, M. Morley-Bunker and G. Thiele. 2011. Temperate and Subtropical Fruit Production. CABI International.

Course Content and Objectives:

The objective of this course is to provide the student with a basic understanding of the world, U.S. and Florida fruit and vegetable industries. Emphasis will be placed on production regions, biology, soils, nutrition, types of fruits and vegetables, site selection and planting, fruit and vegetable quality factors, propagation, pruning, pollination, flowering and fruit set, horticultural production practices and career opportunities.

Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Discuss growth and development patterns for fruit and vegetable species.
- Explain production conditions and practices for fruit and vegetable crops and compare the various cultural systems.
- Develop management plans for soil fertility, irrigation, and pest control in fruit and vegetable production.
- Critically analyze data from the fruit and vegetable industries at the regional, national, and global levels.
- Discuss and evaluate different marketing strategies for fruit and vegetable crops.

Grading and Attendance Policies:

The first and the second portions of the course will be evaluated separately and points added together to determine the final letter grade. There will be four exams throughout the semester covering lecture material prior to the exam (100 points each). There will also be a vegetable section CSA project that will be worth 80 points, as well as a fruit section media project that will be worth 80 points. In addition, there will be 8 unannounced, in-class quizzes during the semester including 4 quizzes in the vegetable section and 4 for the fruit section.

	Points Possible
Exam #1	100
Exam #2	100
Exam #3	100
Exam #4	100
Vegetable Section CSA Project	80
Fruit Section Media Project	80
Quizzes (10 points x 8)	80
Attendance and Participation	50
TOTAL	690

Please feel free to discuss your grades with us at any time during the semester.

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

We strongly urge students to attend class on a regular basis. Attendance and participation will be considered at the end of the semester and may affect the final grade. Self assessment of class attendance and participation as well as self and peer assessment of participation in class projects will be conducted during the semester. Final grades will be based on the performance of each student relative to the following standard percentages (%):

100-93	A
92-90	A-
89-87	B+
86-83	B
82-80	B-
79-77	C+
76-73	C
72-70	C-
69-67	D+
66-63	D
62-60	D-
59-00	E

Exam Policy:

Students who miss exams will receive a zero for those exams. Acceptable reasons for missing scheduled exams include illness or family emergency, religious holidays, and participation in official UF activities. Documentation is required. Under these circumstances, a make-up exam will be offered. The format of the make-up exam is at instructors' discretion.

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>.

We encourage all of you to participate in the class whether you come from a fruit and vegetable background or not. Please feel free to ask questions at any time and to discuss any aspect of the course with us. **We are always available by appointment, phone or via email.**

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/

Tentative Lecture Schedule
HOS 3020 – Principles of Horticultural Crop Production
Fall 2017

Week No.	Date	Topic
1	Aug 21	Introduction and Course Requirements
	Aug 23	Vegetables and the Vegetable Industry; CSA Project Introduction
	Aug 25	World and U.S. Fruit Production; Fruit Media Project Introduction
2	Aug 28	Classifying Vegetables; CSA Project Discussions
	Aug 30	Assessing Vegetable Quality Attributes
	Sept 1	Recap; CSA Project Work in the Teaching Garden
3	Sept 4	<i>Labor Day (No Class)</i>
	Sept 6	Vegetable Growing Conditions
	Sept 8	<i>Class cancelled due to hurricane</i>
4	Sept 11	<i>Class cancelled due to hurricane</i>
	Sept 13	<i>Class cancelled due to hurricane</i>
	Sept 15	Recap; Vegetable Plant Growth and Development Patterns (I)
5	Sept 18	Vegetable Grafting Lab
	Sept 20	IPM and Disease Management (Dr. Nick Dufault)
	Sept 22	CSA Project Work in the Teaching Garden
6	Sept 25	Recap; Vegetable Plant Growth and Development Patterns (II)
	Sept 27	Mulch Use in Vegetable Production (Dr. Josh Freeman)
	Sept 29	General Cultural Practices for Vegetables
7	Oct 2	Breeding and Improving Vegetables
	Oct 4	Exam 1
	Oct 6	<i>Homecoming (No Class)</i>
8	Oct 9	Recap; Vegetable Seeds
	Oct 11	Field Planting and Crop Establishment; Soil Management and Fertilization in Vegetable Production (I)

	Oct 13	Soil Management and Fertilization in Vegetable Production (II)
9	Oct 16	Drip Irrigation in Vegetable Production; Fertilization Calculations
	Oct 18	Extending the Production Season; Organic Crop Production
	Oct 20	Recap; Vegetable Teaching Garden Tour
10	Oct 23	CSA Project Update; Review
	Oct 25	Exam 2
	Oct 27	Climate Effects on Fruit Production
11	Oct 30	Annual vs Perennial Plant Growth
	Nov 1	Juvenility and the Ability to Flower
	Nov 3	Flowering and Pollination
12	Nov 6	Fruit Morphology; Fruit Growth and Development
	Nov 8	Fruit Maturation and Harvest, Postharvest Handling/Fruit Quality
	Nov 10	<i>Veterans Day (No Class)</i>
13	Nov 13	Dormancy and Cold Hardiness
	Nov 15	Exam 3
	Nov 17	Field Visit- Teaching Orchard- <i>Please dress appropriately.</i>
14	Nov 20	Pruning and Training Fruit Crops
	Nov 22	<i>Thanksgiving (No Class)</i>
	Nov 24	<i>Thanksgiving (No Class)</i>
15	Nov 27	Fruit Crop Propagation
	Nov 29	Using Biotechnology in Fruit Crops (Dr. Kevin Folta)
	Dec 1	Plant Growth Regulator Use in Fruit Production
16	Dec 4	Fruit Media Project Presentations
	Dec 6	Exam 4

Institute of Food and Agricultural Sciences
Horticultural Sciences Department

1113 Fifield Hall
PO Box 110690
Gainesville, FL 32611-0690
352-273-4765
352-392-6479 Fax

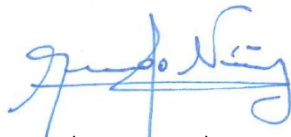
Dear colleagues in the CALS Curriculum Committee,

We have re-designed our course *Principles of Horticultural Crop Production* with the intention of increasing experiential learning activities and teaching students how to compose an e-portfolio. The following changes will take effect in future offerings of the course:

- Students will conduct a semester-long practicum growing fruits and vegetables (as opposed to the 8-week vegetable practicum).
- Students will plan and execute a Community Supported Agriculture (CSA) and U-Pick project (as opposed to planning and executing just the CSA).
- Students will have weekly scheduled time in the teaching garden (as opposed to 4 scheduled times in the entire semester).
- Students will learn to create professional electronic portfolios where they document their skills and experience as horticulturists.

In attention to these modifications, we request to change HOS3020 from 3 to 4 credit hours and to add the "C" code.

Sincerely,



Gerardo Nunez, Ph.D.



Xin Zhao, Ph.D.

Instructors – HOS3020



HOS 3020C – Principles of Horticultural Crop Production

4 CREDITS

MEETING TIMES AND LOCATION

Mondays and Wednesdays 9:35 AM to 10:25 AM

Fridays 9:35 AM to 11:30 AM

Fifield Hall 2316 and Horticultural Sciences Teaching Garden

INSTRUCTORS

Dr. Xin Zhao
1235 Fifield Hall
352-273-4773
zxin@ufl.edu
MW 2:00PM – 2:50PM

Dr. Gerardo Nunez
1113 Fifield Hall
352-273-4765
g.nunez@ufl.edu
T 2:00pm – 4:00PM

PRE-REQUISITES BOT2010C or equivalent

COURSE DESCRIPTION

This course introduces students to concepts and practices used to produce fruit and vegetable crops in Florida, the U.S., and globally. Topics covered include production regions, crop biology, crop nutrition, types of fruits and vegetables, disease and pest management, and marketing. This course includes a hands-on practicum.

LEARNING OBJECTIVES

Upon successful completion of this course, students will be able to:

- Discuss growth and development patterns for fruit and vegetable species.
- Explain production conditions and practices for fruit and vegetable crops and compare the various cultural systems.
- Develop management plans for soil fertility, irrigation, and pest control in fruit and vegetable production.
- Critically analyze data from the fruit and vegetable industries at the regional, national, and global levels.
- Discuss and evaluate different marketing strategies for fruit and vegetable crops.

- Apply irrigation, fertilization, pruning, transplanting, and harvesting techniques in fruit and vegetable production.

COURSE MATERIALS

Textbooks

There is not a required textbook for this course. Lectures will be presented in PowerPoint available on the course website. The following textbooks are optional reference materials. They are placed on *Course Reserve* at Marston Science Library:

- John M. Swiader and George W. Ware. 2002. Producing vegetable crops. Fifth edition. Interstate Publishers, Inc. ISBN-10: 0813432030
- Vincent E. Rubatzky and Mas Yamaguchi. 2012. World vegetables: Principles, production and nutritive values. Second edition. Springer. ISBN: 9781461560159
- Donald N. Maynard and George J. Hochmuth. 2007. Knott's handbook for vegetable growers. Fifth edition. John Wiley & Sons, Inc. ISBN-10: 047173828X
- D. Jackson, N. Looney, M. Morley-Bunker and G. Thiele. 2011. Temperate and Subtropical Fruit Production. CABI International. ISBN: 9781845935016

COURSE GRADE

1. Exams

400 points

There will be four non-cumulative exams in the semester, two in the vegetables section and two in the fruits section. Exams 1-3 will take place during scheduled class periods. Exam 4 will take place during finals week. All exams will take 50 minutes. Each exam will be graded out of 100 points.

2. Quizzes

80 points

There will be eight online quizzes in the semester, four in the vegetables section and four in the fruits section. Each quiz will be timed to 10 minutes and can only be taken once. Students can refer to personal notes, slideshows, and other reference materials, but they must work individually. Each quiz will be graded out of 10 points.

3. Class Participation

50 points

At the beginning of every class, students will be chosen at random and asked to provide a 2-minute verbal summary of the previous lecture. Additionally, throughout the course there will be opportunities for students to ask or answer questions. Class interaction and class summaries will be graded out of 25 points according to the rubrics below. The sum of your class summary and class interaction scores will be used as your participation grade.

Participation frequency	Score
Never	5
Rarely	10
Sometimes	15
Often	20
Always	25

Participation quality	Score
Poor	5
Fair	10
Good	15
Very good	20
Excellent	25

4. Horticultural Production Practicum

150 points

Hands-on application of the concepts covered in lecture will focus on the design and maintenance of fruits and vegetable production plots in the Horticultural Sciences Teaching Garden. Students will work in teams of 6 to grow fruits and vegetables for the duration of the semester. Your contribution to your team's plot will be evaluated every two weeks based on your performance acceptability and reflective essays. Performance acceptability points (maximum 10 points) will be allocated by the instructor according to the rubric below.

Level of performance acceptability	Score
Unacceptable	2
Slightly unacceptable	4
Neutral	6
Slightly acceptable	8
Acceptable	10

Reflective essays (maximum 10 points) will be short (200 words), well-written pieces that summarize the lessons learned in each activity. Reflective essays are due on canvas at 11:59PM on Sundays starting on week 3 of the semester. Ten additional points will be earned by preparing and delivering a short presentation (2 minutes, one visual aid) for the fall open house scheduled for week 14 of the semester. Additional guidelines for the presentation will be provided in class.

5. E-portfolio

Not graded

Reflective essays are a good way to document your professional skills as a horticulturist. Students are encouraged to improve their reflective essays based on instructor feedback. Then, students are encouraged to deposit their fruit and vegetable production plan, season extension plan, and fruit tree grafting reports in an electronic portfolio. E-portfolios can be created using wordpress.com or wix.com. A tutorial on how to create a professional e-portfolio will be conducted in class. All students are encouraged to create an e-portfolio. Horticultural Sciences students must submit a link to their e-portfolio in the Canvas site for the major. Horticultural Sciences students will update and enhance this e-portfolio throughout their program of study.

All points earned in the course will be summed to calculate your final grade. Letter grades will be based on the performance of each student relative to the following standard percentages (%):

100-93	A	> 76.9 - 73	C
>92.9 - 90	A-	> 72.9 - 70	C-
> 89.9 - 87	B+	> 69.9 - 67	D+
> 86.9 - 83	B	> 66.9 - 63	D
> 82.9 - 80	B-	> 62.9 - 60	D-
> 79.0 - 77	C+	<60	E

Additional information on current UF grading policies for assigning grade points can be found here:

- *Grading policy*, <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

COURSE POLICIES

Attendance and Make-up Policy

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

- *UF Attendance policy*, <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/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 when appropriate.

Services for Students with Disabilities

Students with disabilities requesting accommodations should first register with the Disability Resource Center by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

- *Disability Resource Center*, 0001 Reid Hall, (352) 392-8565, www.dso.ufl.edu/drc/

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.

- *Counseling and Wellness Center*, 3190 Radio Road, 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
- *Sexual Assault Recovery Services (SARS)*, Student Health Care Center, 392-1161.
- *University Police Department*, 392-1111 (or 9-1-1 for emergencies), www.police.ufl.edu

Additionally, if you would like orientation on choosing a major, finding an internship, or planning your career, I encourage you to use the university's on-campus resources.

- *Career Resource Center*, CR-100 Reitz Union, 392-1601, www.crc.ufl.edu/next-level

Course Evaluation Process

Student assessment of instruction is an important part of the effort to improve teaching and learning. At the end of the semester, you 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:

- *Course evaluations*, www.evaluations.ufl.edu

Evaluations are typically open during the last two or three weeks of the semester. You will be notified of the specific times when evaluations for this course are open. Summary results of these assessments are available to students at:

- *Evaluations summary*, www.evaluations.ufl.edu/results

Student Complaints

You can file and resolve any complaints about your experience in this course in the following site:

- *Student complaints in residential courses*, <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

HOS 3020C – Principles of Horticultural Crop Production

Date	Topics and assessments due
Week 1	Introduction and Course Requirements
Week 2	Fruit and vegetable industry in Florida, the U.S., and globally
Week 3	Classifying vegetables; Quality attributes
Week 4	Vegetable growing conditions and patters; Plasticulture <i>Exam #1</i>
Week 5	Field planting and transplanting; Vegetable grafting lab
Week 6	Soil management and fertilization
Week 7	Fertilizer calculations; Drip irrigation
Week 8	Organic crop production ; Season extension
Week 9	Vegetable marketing; Technological innovations <i>Exam #2</i>
Week 10	Climate effects on fruit production; Protected agriculture
Week 11	Fruit crop propagation; Citrus grafting lab
Week 12	Juvenility ; Flower bud initiation <i>Exam #3</i>
Week 13	Dormancy; Cold acclimation
Week 14	Groove, orchard, and vineyard design <i>Fall Open House</i>
Week 15	Mechanization; Plant breeding
Final exams week	<i>Exam #4</i>