Not all courses are offered every semester. Refer to the schedule of courses for each term’s specific offerings.

More Info (http://registrar.ufl.edu/soc/)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Department Information

The Horticultural Sciences Department is a team of faculty, staff, and students dedicated to improving fruit and vegetable production for the benefit of farmers and consumers. Florida’s climatic diversity and the facilities at UF provide opportunities for cutting-edge research in plant breeding & genetics, plant and environmental physiology, fruit & vegetable production, postharvest physiology, biochemistry, and other disciplines. Website (https://hos.ifas.ufl.edu/)

CONTACT

Email (curtisr@ufl.edu) | 352.392.1928

P.O. Box 110690
2550 Hull Road
FIFEID HALL
GAINESVILLE FL 32611-0690
Map (http://campusmap.ufl.edu/#!/index/0717)

Curriculum

- Combination Degrees
- Horticultural Science
- Horticultural Science Minor
- Horticultural Therapy Certificate
- Organic and Sustainable Crop Production Minor
- Plant Molecular and Cellular Biology Minor

Courses

FRC 1010 Growing Fruit for Fun and Profit 1 Credit
Grading Scheme: Letter Grade
Especially for non-majors who desire a concise mini-course in fruit growing and marketing. Fruit crops include citrus, pecan, blueberry, strawberry, peach, grape, apple, mango and avocado.

FRC 3212 Introduction to Citrus Culture and Production 3 Credits
Grading Scheme: Letter Grade
Citrus botany, scion and rootstock selection, site selection, fruit quality grove design and production practices.

FRC 3252 Tropical and Subtropical Fruits 2 Credits
Grading Scheme: Letter Grade
Culture and management of important tropical and subtropical fruit, including avocado, banana, mango, papaya, loquat, persimmon, pineapple, coffee and others.

FRC 3274 Tree and Small Fruit Production 3 Credits
Grading Scheme: Letter Grade
Current principles and cultural practices in deciduous tree, bush and vine crops. Emphasizes practical aspects of production.

FRC 3802 Viticulture for Table Grapes and Wine 2 Credits
Grading Scheme: Letter Grade
Teaches current practices for establishing a vineyard and maintaining its health and productivity into the final quality of the grape. Topics covered include grape varietal selection, site selection and preparation, vine growth, training and trellis systems, and equipment used in vineyard and wine production.
Prerequisite: BSC 2005 or BOT 2010C or BOT 2011C.

HOS 1014 Vegetable Gardening 1 Credit
Grading Scheme: Letter Grade
Primarily for non-majors who desire to learn the basic principles of vegetable gardening. A garden is required of each student.

HOS 3020C Principles of Horticultural Crop Production 4 Credits
Grading Scheme: Letter Grade
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.
Prerequisite: BOT 2010C or equivalent.

HOS 3222C Greenhouse and Protected Agriculture 3 Credits
Grading Scheme: Letter Grade
Principles and practices of crop production in protected structures. Emphasizes structure type, media, fertilization and pest control practices.

HOS 3281C Organic and Sustainable Crop Production 3 Credits
Grading Scheme: Letter Grade
Introduction to organic and sustainable crop production of horticultural crops, including soil/water management, pest control, harvest, handling and marketing.

HOS 3285 The Organic Debate: Organic Agriculture Development & Regulations 1 Credit
Grading Scheme: Letter Grade
Organic farming is a rapidly developing production system. This introductory course provides a critical analysis of organic agriculture growth, consumer perceptions, and regulations at the national and international level. This course also focuses on organic agriculture for disciplinary innovations and challenges in advancing environmental, economic, and social sustainability of food production.
Prerequisite: BSC 2005 or equivalent.

HOS 3305 Introduction to Plant Molecular Biology 3 Credits
Grading Scheme: Letter Grade
Introduces plant molecular biology and genetic engineering, emphasizing plant genes and genomes, transformation of plants and basic molecular biology.
Prerequisite: APB 2150 or BOT 2010C or BSC 2010.

HOS 3430C Nutrition of Horticultural Crops 3 Credits
Grading Scheme: Letter Grade
Study and discussion of physiological, biochemical and environmental factors influencing nutritional status and productivity of horticultural crops.

HOS 4241C Genetics and Breeding of Vegetable Crops 3 Credits
Grading Scheme: Letter Grade
Traditional and molecular breeding methods for vegetable crops and the influence of scientific research, government policies, industry needs, and consumer preferences on vegetable crop improvement.
Prerequisite: AGR 3303.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grading Scheme</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOS 4283C</td>
<td>Advanced Organic and Sustainable Crop Production</td>
<td>3</td>
<td>Letter Grade</td>
<td>HOS 3281C.</td>
</tr>
<tr>
<td>HOS 4304</td>
<td>Horticultural Physiology 3 Credits</td>
<td>3</td>
<td>Letter Grade</td>
<td>BOT 2010C or BSC 2010.</td>
</tr>
<tr>
<td>HOS 4313C</td>
<td>Laboratory Methods in Plant Molecular Biology</td>
<td>2</td>
<td>Letter Grade</td>
<td>(AGR 3303 or HOS 3305) and PCB 3063.</td>
</tr>
<tr>
<td>HOS 4332C</td>
<td>Principles of Postharvest Horticulture 3 Credits</td>
<td>3</td>
<td>Letter Grade</td>
<td>HOS 4304.</td>
</tr>
<tr>
<td>HOS 4341</td>
<td>Advanced Horticultural Physiology 3 Credits</td>
<td>3</td>
<td>Letter Grade</td>
<td>HOS 4304.</td>
</tr>
<tr>
<td>HOS 4900</td>
<td>Supervised Extension Experience in Horticultural Sciences 0-3 Credits</td>
<td>1-6</td>
<td>S/U</td>
<td>HOS 3020C or ALS 3153.</td>
</tr>
<tr>
<td>HOS 4905</td>
<td>Independent Study in Horticultural Science 1-6 Credits</td>
<td>1-3</td>
<td>Letter Grade</td>
<td>(AGR 3303 or HOS 3305) and PCB 3063.</td>
</tr>
<tr>
<td>HOS 4911</td>
<td>Supervised Research in Horticultural Sciences 0-3 Credits</td>
<td>1-3</td>
<td>S/U</td>
<td>HOS 3020C or ALS 3153.</td>
</tr>
<tr>
<td>HOS 4915</td>
<td>Honors Thesis Research in Horticultural Sciences 0-3 Credits</td>
<td>1-3</td>
<td>S/U</td>
<td>HOS 3020C or ALS 3153.</td>
</tr>
<tr>
<td>HOS 4918</td>
<td>Capstone Planning in Horticultural Sciences 1 Credit</td>
<td>1</td>
<td>S/U</td>
<td>HOS 4933.</td>
</tr>
<tr>
<td>HOS 4921</td>
<td>Horticultural Sciences Capstone 2-4 Credits</td>
<td>2-4</td>
<td>S/U</td>
<td>HOS 4918.</td>
</tr>
<tr>
<td>HOS 4932</td>
<td>Special Topics in Horticultural Sciences 1-3 Credits</td>
<td>1-3</td>
<td>Letter Grade</td>
<td>instructor permission.</td>
</tr>
<tr>
<td>PLS 3421C</td>
<td>Hydroponic Systems 3 Credits</td>
<td>2</td>
<td>Letter Grade</td>
<td>HOS 4933.</td>
</tr>
<tr>
<td>VEC 3221C</td>
<td>Organic Weed Management 3 Credits</td>
<td>3</td>
<td>Letter Grade</td>
<td>HOS 4918.</td>
</tr>
<tr>
<td>VEC 3222C</td>
<td>Vegetable Production 4 Credits</td>
<td>4</td>
<td>Letter Grade</td>
<td>HOS 4933.</td>
</tr>
<tr>
<td>WDS 4001</td>
<td>Organic Weed Management 3 Credits</td>
<td>3</td>
<td>Letter Grade</td>
<td>HOS 4933.</td>
</tr>
</tbody>
</table>