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](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.

**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 fruits, 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 2100C or BOT 2110C.

**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 Horticulture Crop Production 4 Credits**  
*Grading Scheme: Letter Grade*  
Introduces 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. Includes a hands-on practicum.  
*Prerequisite:* BOT 2100C 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*  
Concepts/techniques of organic and sustainable 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 transdisciplinary 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 2100C or BSC 2100.

**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.

**HOS 4283C Advanced Organic and Sustainable Crop Production 3 Credits**  
*Grading Scheme: Letter Grade*  
Intensive examination of the methods and techniques necessary for organic and sustainable production and marketing of horticultural products.  
*Prerequisite:* HOS 3281C.

**HOS 4304 Horticultural Physiology 3 Credits**  
*Grading Scheme: Letter Grade*  
Basic concepts and processes of physiology as they relate to plant growth and development.  
*Prerequisite:* BOT 2100C or BSC 2100.

**HOS 4313C Laboratory Methods in Plant Molecular Biology 2 Credits**  
*Grading Scheme: Letter Grade*  
Hands-on laboratory experience in plant molecular biology. Utilizing current techniques for isolation, purification and cloning of plant DNA, students learn many basic techniques in plant biotechnology.  
*Prerequisite:* (AGR 3303 or HOS 3305) and PCB 2106.

**HOS 4332C Principles of Postharvest Horticulture 3 Credits**  
*Grading Scheme: Letter Grade*  
Biological principles involved in harvesting, grading, packaging, transportation, and marketing horticultural crops, and their effects on quality maintenance. Commercial postharvest practices explained in relation to general procedures and technologies as well as the recommended postharvest best handling practices and optimum postharvest conditions for different types of horticultural crops.  
*Prerequisite:* HOS 4304.
HOS 4341 Advanced Horticultural Physiology 3 Credits  
Grade Distribution: Letter Grade  
Environmental effects (light, temperature and water) on physiology, growth and development of plants.  
Prerequisite: HOS 4304.

HOS 4900 Supervised Extension Experience in Horticultural Sciences 0-3 Credits  
Grade Distribution: S/U  
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

HOS 4905 Independent Study in Horticultural Science 1-6 Credits  
Grade Distribution: Letter Grade  
Selected research topics in molecular biology, physiology and/or genetics of horticultural crops.

HOS 4911 Supervised Research in Horticultural Sciences 0-3 Credits  
Grade Distribution: S/U  
Firsthand, authentic research in horticultural sciences under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

HOS 4915 Honors Thesis Research in Horticultural Sciences 0-3 Credits  
Grade Distribution: S/U  
Independent research in horticultural sciences leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)  
Prerequisite: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

HOS 4918 Capstone Planning in Horticultural Sciences 1 Credit  
Grade Distribution: S/U  
Focuses on planning service learning, scientific research, cooperative extension, or industry liaison projects for the Horticultural Sciences capstone. Also fosters reflection of academic and professional development in the major.  
Prerequisite: HOS 4933.

HOS 4921 Horticultural Sciences Capstone 2-4 Credits  
Grade Distribution: S/U  
Focuses on executing service learning, scientific research, cooperative extension, or industry liaison projects designed during capstone planning. Perfect professional portfolios and present the outcomes of the capstone project.  
Prerequisite: HOS 4918.

HOS 4932 Special Topics in Horticultural Sciences 1-3 Credits  
Grade Distribution: Letter Grade  
Critical review of selected topics in specific areas not covered in other horticultural sciences courses.  
Prerequisite: instructor permission.

HOS 4933 Professional Development in Horticulture 1 Credit  
Grade Distribution: Letter Grade  
Professional skills development, including job searching, resume writing, interview skills, professional etiquette, communications and salary negotiations.

HOS 4941 Practical Work Experience in Horticultural Sciences 1-4 Credits  
Grade Distribution: S/U  
Practical work that must be a new experience and related to the field of study. (S-U)  
Prerequisite: advisor arrangement and permission.

PLS 3421C Hydroponic Systems 3 Credits  
Grade Distribution: Letter Grade  
This course offers students foundational information and hands-on experience on hydroponic and soilless cultivation of horticultural crops. Production practices, growing systems, new technologies and current challenges are discussed.  
Prerequisite: HOS 3020C or PLS 3004C.

VEC 2100 World Herbs and Vegetables 3 Credits  
Grade Distribution: Letter Grade  
Introduces a variety of vegetables and culinary herbs. Emphasizes genetic, phytochemical and botanical diversity and importance of food phytochemicals and role of vegetables in nutrition. (B)  
Attributes: General Education - Biological Science

VEC 3221C Vegetable Production 4 Credits  
Grade Distribution: Letter Grade  
Principles and practices of successful commercial vegetable production, including crop requirements, growth patterns and production techniques along with consumption/marketing patterns and U.S./Florida production areas.

WDS 4001 Organic Weed Management 3 Credits  
Grade Distribution: Letter Grade  
Apply ecological principles in agroecosystems to manage weeds sustainably. Emphasizes alternative weed management approaches that are less dependent on herbicides and utilize ecological processes detrimental to weeds and their propagules. Learn actively by critically analyzing pertinent literature and participating in discussions of supplemental reading.  
Prerequisite: HOS 3020C or ALS 3153.