**Horticultural Sciences**

### Course Search

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

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
  - 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
  - Citrus botany, scion and rootstock selection, site selection, fruit quality, grove design, and production practices.

- **FRC 3252 Tropical and Subtropical Fruits** 2 Credits
  - 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
  - Current principles and cultural practices in deciduous tree, bush, and vine crops. Emphasizes practical aspects of production.

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

- **HOS 3020 Principles of Horticulture Crop Production** 3 Credits
  - 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.

- **HOS 322C Greenhouse and Protected Agriculture** 3 Credits
  - 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
  - Concepts/techniques of organic and sustainable production of horticultural crops, including soil/water management, pest control, harvest, handling and marketing.

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

- **HOS 3430C Nutrition of Horticultural Crops** 3 Credits
  - Study and discussion of physiological, biochemical and environmental factors influencing nutritional status and productivity of horticultural crops.

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

- **HOS 4304 Horticultural Physiology** 3 Credits
  - Basic concepts and processes of physiology as they relate to plant growth and development.
  - **Prereq:** BOT 2010 or BSC 2010

- **HOS 4313C Laboratory Methods in Plant Molecular Biology** 2 Credits
  - 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.
  - **Prereq:** AGR 3303, or HOS 3305 and PCB 3063

- **HOS 4341 Advanced Horticultural Physiology** 3 Credits
  - Environmental effects (light, temperature and water) on physiology, growth and development of plants.
  - **Prereq:** HOS 4304

- **HOS 4900 Supervised Extension Experience in Horticultural Sciences** 3 Credits
  - 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
  - Selected research topics in molecular biology, physiology and/or genetics of horticultural crops.

- **HOS 4911 Supervised Research in Horticultural Sciences** 3 Credits
  - 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** 3 Credits
  - 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)
  - **Prereq:** junior standing, upper division GPA of 3

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

- **HOS 4933 Professional Development in Horticulture** 1 Credit
  - 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
  - Practical work that must be a new experience and related to the field of study. (S-U)
  - **Prereq:** advisor arrangement and permission

- **VEC 2100 World Herbs and Vegetables** 3 Credits
  - 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)
  - General Education - Biological Science

- **VEC 3221C Vegetable Production** 4 Credits
  - 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.