

# HORTICULTURE (HORT)

## HORT A100 3 Units (54 lecture hours)

### Horticulture Science

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

The science and culture of plants upon which man's very existence depends. The principles and practices used to grow plants for food and environmental enhancement will be emphasized. Graded or Pass/No Pass option.

## HORT A101 1-4 Units (18-72 lecture hours)

### Current Topics in Horticulture

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

Current issues in the field of Ornamental Horticulture. Graded or Pass/No Pass option. Formerly OH A101.

## HORT A105 3 Units (54 lecture hours)

### Botany for Gardeners

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

The world of garden plants, their structure, form and how they function. A course for the plant professional and plant enthusiasts. Graded or Pass/No Pass option.

## HORT A109 3 Units (54 lecture hours)

### Knowing Your Soils

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

A nontechnical study of the fundamental concepts of soil science. Methods of investigations for the managements of soils and soil substitutes. Graded or Pass/No Pass option.

## HORT A111 1 Unit (9 lecture hours; 18 lab hours)

### Landscape Drafting Techniques

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

Basic landscape drafting practices, lettering, line work, symbols, sheet composition and dimensioning. Graded or Pass/No Pass option.

## HORT A115 3 Units (18 lecture hours; 108 lab hours)

### Landscape Graphics

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

This course begins exploring drawing techniques necessary to perform tasks related to communicating design concepts in landscape design. The emphasis is on easy, time-saving techniques that build from understanding perspective to rapid sketching skills. Field sketching is also a vital communication skill in environmental design, as it enables designers to quickly record ideas whether simply for their own use, or to share with a client to gather early feedback on usability, form, and aesthetic. Using both indoor and outdoor venues around the campus, students will learn to communicate their thoughts visually and integrate their sketching into the design process. Graded or Pass/No Pass option.

## HORT A116 3 Units (18 lecture hours; 108 lab hours)

### Digital Design

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

This course provides an introduction to digital techniques while explaining the processes associated with describing and designing the landscape. In addition, this course guides the student through from their first impression of a site, through concept and schematic design and presentation to construction and site drawings, concluding with a case study that shows the final result. The designer needs to know about digital tools and use them at the various stages of a concept development. In the journey from concept to realization, it is important to have the right tools and methods of representation and use them in an intelligent and skillful way. Graded or Pass/No Pass option.

## HORT A150 3 Units (54 lecture hours)

### Landscape Maintenance

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

Maintenance of residential and small commercial landscapes to include: small tree and shrub trimming, all aspects of lawn care, soil amending, fertilizing, sprinkler adjustments, watering, pest inspections, and scheduling. Graded or Pass/No Pass option.

## HORT A151 2 Units (36 lecture hours)

### Introduction to Tree Care

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

An introduction to the many aspects of tree care. Graded or Pass/No Pass option.

## HORT A170 1 Unit (18 lecture hours)

### Pest Control Applicators and Gardeners P.C.O. Certification

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU.

Preparation for California Certification Exam as Pesticide Applicator and Gardeners Maintenance Pest Control Operators. Emphasis on safe use of pesticides, alternative pest management. Ornamental, turf grass, industrial, right-of-way and seed treatment control. Graded or Pass/No Pass option.

## HORT A181 3 Units (36 lecture hours; 54 lab hours)

### Ornamental Trees

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU; UC: Credit Limitation: HORT A181 and HORT A182 combined: maximum credit, 1 course.

Identification, habits of growth, culture, propagation, and use of ornamental trees in landscape design for Southern California. Graded or Pass/No Pass option.

**HORT A182 3 Units (36 lecture hours; 54 lab hours)****Ornamental Shrubs****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU; UC: Credit Limitation: HORT A181 and HORT A182 combined: maximum credit, 1 course.

Habits of growth, culture, propagation, and use in landscape design for Southern California. Identification will be emphasized. Graded or Pass/No Pass option.

**HORT A183 3 Units (36 lecture hours; 54 lab hours)****Plant Propagation****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU; UC.

Principles and practice of propagation of horticultural plants. Propagation from seed, cuttings, layering, and grafting. May be taken for grades or on a pass-no pass basis.

**HORT A184 3 Units (36 lecture hours; 54 lab hours)****Greenhouse and Nursery Science****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU.

A survey of the nursery industry. Nursery structures and equipment, construction, operation and use in the production of commercial crops. Cultural aspects of crop production. Graded or Pass/No Pass option.

**HORT A185 1.5 Units (27 lecture hours)****Plant Diseases****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU.

Common diseases of plants, emphasis on ornamentals grown in Southern California. Their symptoms and control of salinity, air pollutants, fungi, bacteria, virus, nematodes and other causal agents of plant diseases. Graded or Pass/No Pass option.

**HORT A186 1.5 Units (18 lecture hours; 27 lab hours)****Pests of Ornamentals****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU.

Common mite, insect, and other animal pests of ornamental plants and common weeds of Southern California are described and identified and ways to prevent and treat infestations are discussed. Graded or Pass/No Pass option.

**HORT A187 2 Units (36 lecture hours)****Interior Plantscaping****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU.

Identification, selection, installation, care and maintenance of plants for interior situations. Graded or Pass/No Pass option.

**HORT A189 1.5 Units (18 lecture hours; 27 lab hours)****Weeds and Their Control****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU.

Recognition of landscape control of weeds in the landscape and in nurseries with emphasis on practical applications. Graded or Pass/No Pass option.

**HORT A190 2 Units (36 lecture hours)****California Friendly Landscape****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU.

Developing new and retrofitting existing landscapes with California friendly plant material. Graded or Pass/No Pass option.

**HORT A191 1.5 Units (27 lecture hours)****Cacti and Succulents****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU.

How to use the plants from the deserts of the world in the Southern California landscape. Identification, growth habits, culture, propagation, design considerations, and conservation. Graded or Pass/No Pass option.

**HORT A200 3 Units (54 lecture hours)****Chronicles of Garden Design through the Ages****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU.

This introduction course is a historical survey of the development of designed landscapes from ancient times through the 21st century. The course will emphasize the cultural, social, and economic contexts that have shaped and informed historic landscapes, broadly defined, and the influence of environmental concerns, horticultural techniques, and technological innovations. Graded or Pass/No Pass option.

**HORT A230 2 Units (36 lecture hours)****Calculations for Horticulture and Landscape Professionals****Grading Mode:** Standard Letter, Pass/No Pass**Transfer Credit:** CSU.

An applied calculations course geared for Landscape, Horticulture and Construction students. This course is necessary to effectively, safely, and economically manage a Landscape Construction operation. Examples of what a student will learn: determining area and volume, application of fertilizers, pesticides, and growth regulators, preparing design and installation cost estimates. Students will develop confidence when they perform the common mathematical tasks required of green industry professionals. Graded or Pass/No Pass option.

**HORT A231** **2 Units (36 lecture hours)**  
**Business of Landscape Design and Construction**  
**Grading Mode:** Standard Letter, Pass/No Pass  
**Transfer Credit:** CSU

This course examines aspects of landscape design and construction practice for professional services, the legal and financial contexts in which it operates, and the documentation and delivery of projects. This course introduces students to the legal and contractual issues, technical specification, financial, project management, starting and managing a business and preparing for the C-27 licensing. Graded or Pass/No Pass option.

**HORT A283** **2 Units (36 lecture hours)**  
**Therapeutic Gardens: Design for Healing Spaces**  
**Grading Mode:** Standard Letter  
**Transfer Credit:** CSU.

This course will introduce and broadly explore how Therapeutic Gardens and the field of Horticultural Therapy incorporates the use of plants and gardening activities to promote health and wellness for people of many ages, backgrounds, and abilities. Topics will include people/plant relationship theories, horticultural therapy as a specialized field, Therapeutic Gardens and their use, and the societal impacts of Horticultural Therapy and research that supports it.

**HORT A285** **3 Units (36 lecture hours; 54 lab hours)**  
**Introduction to Landscape Design**  
**Grading Mode:** Standard Letter, Pass/No Pass  
**Transfer Credit:** CSU; UC.

Landscape design, circulation, form, materials, scale. Preparation of landscape design plans. Graded or Pass/No Pass option.

**HORT A286** **2 Units (36 lecture hours)**  
**Landscape Design Elements**  
**Grading Mode:** Standard Letter, Pass/No Pass  
**Transfer Credit:** CSU.

Design of basic garden elements (i.e. walls, arbors, pools, steps, fences). Reviews construction materials and their inherent qualities. Preparation of construction drawings. Graded or Pass/No Pass option.

**HORT A287** **2 Units (36 lecture hours)**  
**Planting Design**  
**Grading Mode:** Standard Letter, Pass/No Pass  
**Transfer Credit:** CSU.

Design and preparation of landscape planting plans. Emphasis on ecological and aesthetic considerations. May be taken for grades or on a pass-no pass basis.

**HORT A288** **2 Units (36 lecture hours)**  
**Sprinkler Irrigation Systems Design**  
**Grading Mode:** Standard Letter, Pass/No Pass  
**Transfer Credit:** CSU.

How to design irrigation sprinkler systems for small areas, such as residential properties and small industrial sites. May be taken for grades or on a pass-no pass basis.

**HORT A289** **1 Unit (9 lecture hours; 18 lab hours)**  
**Installation of Residential Irrigation Systems**  
**Grading Mode:** Standard Letter, Pass/No Pass  
**Transfer Credit:** CSU.

A hands-on experience with the installation of a residential irrigation system to include: materials lists, layout, trenching, gluing and fitting lines, sprinklers and nozzles, valve manifolds, and clocks. Emphasis on planning, layout, and time saving practical methods. To include one Saturday installation. May be taken for grades or on a pass-no pass basis.

**HORT A290** **1.5 Units (27 lecture hours)**  
**Low-Voltage Landscape Lighting**  
**Grading Mode:** Standard Letter, Pass/No Pass  
**Transfer Credit:** CSU.

An interactive, hands-on LED landscape lighting course for those seeking to increase their knowledge and installation of low-voltage (12 volt) LED landscape lighting. This course provides detailed instruction and hands-on training across a range of topics to sharpen your skills and become proficient in this field. The design and installation of an actual LED lighting system including best practices for how to layout the lighting design and an explanation of fixture placement.

**HORT A296** **3 Units (54 lecture hours)**  
**Grading and Drainage for Landscape Design**  
**Grading Mode:** Standard Letter, Pass/No Pass  
**Transfer Credit:** CSU.

This course covers the basic grading and drainage techniques used in every landscape architecture project. Students learn the skills necessary to grade a site of moderate complexity while considering public health, safety, and welfare. Includes the design and installation of drainage elements per site requirements. Introduces tools and methods for grading landscape sites based on design documents and field measurements. Basic grading formulas and cut and fill calculations are presented. Graded or Pass/No Pass option.

**HORT A297** **2 Units (36 lecture hours)**  
**Garden Pools, Fountains and Waterfalls in the Landscape**  
**Grading Mode:** Standard Letter, Pass/No Pass  
**Transfer Credit:** CSU.

Design and installation of landscape water features including ponds, garden streams, fountains and container water gardens. Students learn current construction techniques through an on-site installation. Graded or Pass/No Pass option.