

# HORTICULTURE, ASSOCIATE IN SCIENCE DEGREE

**Banner Code:** 1\_AS\_OH

**Control Number:** 03954

**Financial Aid Eligible**

Upon completion of the Horticulture Program students will have the knowledge, skills and experience to work with plant material in multiple applications and multiple fields in the Landscaping and Nursery industries. Students will be qualified for careers in Landscape Design, Landscape Contracting, Landscape Maintenance, Arboriculture, Nursery practices, and Irrigation and Water Management.

Complete the Horticulture Certificate of Achievement and the Associate in Science graduation requirements as outlined in the Graduation Requirements section of the catalog.

## Program Outcomes

1. Use knowledge of various plant materials to better design and maintain an outdoor garden or landscape.
2. Describe man's relationship with plants for food and environmental enhancement.
3. Describe current sustainability issues in Southern California and how good horticultural practices will improve long term sustainability.
4. Use knowledge of a particular chosen plant, greenhouse systems and propagation practices to successfully produce a healthy crop by a target date.
5. Use knowledge of site conditions, drafting skills, client needs, and various plant and building materials to solve a design problem.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/associate-degree/>) and General Education (<https://catalog.cccd.edu/orange-coast/general-education-patterns/>).

Course	Title	Units
<b>Required Courses</b>		
BIOL A183	Botany <sup>1</sup>	3
or HORT A105	Botany for Gardeners	
HORT A109	Knowing Your Soils	3
HORT A181	Ornamental Trees	3
HORT A182	Ornamental Shrubs	3
<i>Restricted Electives (select 12 units)</i>		12

Elective courses generally offered in Fall (any course may only be completed once):

HORT A111	Landscape Drafting Techniques
HORT A151	Introduction to Tree Care
HORT A170	Pest Control Applicators and Gardeners P.C.O. Certification
HORT A184	Greenhouse and Nursery Science
HORT A185	Plant Diseases
HORT A187	Interior Plantscaping <sup>2</sup>
HORT A200	Chronicles of Garden Design through the Ages
HORT A231	Business of Landscape Design and Construction <sup>2</sup>

Course	Title	Units
HORT A285	Introduction to Landscape Design	
HORT A290	Low-Voltage Landscape Lighting <sup>2</sup>	
HORT A297	Garden Pools, Fountains and Waterfalls in the Landscape	

Elective courses generally offered in Spring (any course may only be completed once):

HORT A115	Landscape Graphics
HORT A116	Digital Design
HORT A150	Landscape Maintenance
HORT A183	Plant Propagation
HORT A186	Pests of Ornamentals
HORT A189	Weeds and Their Control
HORT A190	California Friendly Landscape
HORT A191	Cacti and Succulents
HORT A200	Chronicles of Garden Design through the Ages
HORT A230	Calculations for Horticulture and Landscape Professionals
HORT A283	Therapeutic Gardens: Design for Healing Spaces
HORT A285	Introduction to Landscape Design
HORT A286	Landscape Design Elements
HORT A287	Planting Design
HORT A288	Sprinkler Irrigation Systems Design
HORT A289	Installation of Residential Irrigation Systems
HORT A296	Grading and Drainage for Landscape Design
Any OCC Business Course A100 or higher	

**Total Units** **24**

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Transfer students should also take BIOL A183L Botany Lab.

Requirement	Units
Minimum Program Major Units	24
AS General Education Option 1, 2, or 3	Varies
Transferable electives to satisfy unit requirement	Varies
<b>Total Degree Units</b>	<b>60</b>

## Program Sequence

These sequences at Orange Coast College are general course curriculum maps for students to finish all major and general education requirements for two-year completion of degrees, and/or fulfillment of transfer requirements. The course sequence may include course prerequisites and other placement requirements. **Students are advised to meet with an Orange Coast College Counselor to review course selections and sequences to ensure that completion of this program will meet a student's transfer and career goals.**

Course	Title	Units
<b>Year 1</b>		
<b>Semester 1</b>		
BIOL A183	Botany	3
or HORT A105	or Botany for Gardeners	

Course	Title	Units
HORT A109	Knowing Your Soils	3
HORT A181	Ornamental Trees	3
OCC AS GE AREA A1- CHOOSE ONE		3
AS RESTRICTED ELECTIVES (see list below)		3
<b>Units</b>		<b>15</b>
<b>Semester 2</b>		
HORT A182	Ornamental Shrubs	3
Select one of the following or satisfy Math competency (completion of High School Algebra 2 with a "C" or better): <sup>1</sup>		3-4
MATH A030	Intermediate Algebra	
or MATH A045	or Combined Elementary and Intermediate Algebra	
OCC AS GE AREA A2- CHOOSE ONE <sup>2</sup>		3-4
OCC AS GE AREA B- CHOOSE ONE		3-4
AS RESTRICTED ELECTIVES (see list below)		3
<b>Units</b>		<b>15-18</b>
<b>Year 2</b>		
<b>Semester 1</b>		
OCC AS GE AREA D- CHOOSE ONE		3
OCC AS GE AREA C1- CHOOSE ONE		3
AS RESTRICTED ELECTIVES (see list below)		3
ELECTIVE (DEGREE APPLICABLE)		6
<b>Units</b>		<b>15</b>
<b>Semester 2</b>		
OCC AS GE AREA C2- CHOOSE ONE		3
AS RESTRICTED ELECTIVES (see list below)		3
ELECTIVES (DEGREE APPLICABLE) <sup>3</sup>		9
<b>Units</b>		<b>15</b>
<b>Total Units</b>		<b>60-63</b>

## Restricted Electives

Course	Title	Units
<b>Fall 1 Recommended Choices:</b>		
HORT A151	Introduction to Tree Care	2
HORT A170	Pest Control Applicators and Gardeners P.C.O. Certification	1
HORT A185	Plant Diseases	1.5
HORT A187	Interior Landscaping	2
HORT A285	Introduction to Landscape Design	3
HORT A231	Business of Landscape Design and Construction	2
HORT A290	Low-Voltage Landscape Lighting	1.5
HORT A297	Garden Pools, Fountains and Waterfalls in the Landscape	2
<b>Spring 1 Recommended Choices:</b>		
HORT A183	Plant Propagation	3
HORT A186	Pests of Ornamentals	1.5
HORT A189	Weeds and Their Control	1.5
HORT A283	Therapeutic Gardens: Design for Healing Spaces	2
HORT A200	Chronicles of Garden Design through the Ages	3

Course	Title	Units
HORT A230	Calculations for Horticulture and Landscape Professionals	2
HORT A286	Landscape Design Elements	2
<b>Fall 2 Recommended Choices:</b>		
HORT A111	Landscape Drafting Techniques	1
HORT A184	Greenhouse and Nursery Science	3
HORT A288	Sprinkler Irrigation Systems Design	2
HORT A289	Installation of Residential Irrigation Systems	1
HORT A285	Introduction to Landscape Design	3
HORT A287	Planting Design	2
<b>Spring 2 Recommended Choices:</b>		
HORT A115	Landscape Graphics	3
HORT A116	Digital Design	3
HORT A150	Landscape Maintenance	3
HORT A190	California Friendly Landscape	2
HORT A191	Cacti and Succulents	1.5

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Math A030 or higher OR take 3-4 degree applicable elective units if math competency was met through completion of High School Algebra 2 with a "C" or better; \*100-level Math courses satisfy AS Math Requirement and OCC AS GE AREA A2

2

OCC AS GE AREA A2 - Required if 100-level MATH will not be taken to meet Math competency. If MATH A100 or higher will be taken, then needs to take 3-4 degree applicable elective units

3

VARIES TO REACH MINIMUM 60 DEGREE APPLICABLE UNITS