

HORTICULTURE, ASSOCIATE IN SCIENCE DEGREE

Financial Aid Eligible
Banner Code: 1_AS_OH
Control Number: 03954

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.

Associate in Arts Degree Requirements

1. **UNIT REQUIREMENT** - 60 UNITS, with at least a 2.0 grade point average. At least 12 of the units must be earned at OCC, with a minimum of one course taken for a letter grade. At least 3 units in an advanced course from the program must be completed at OCC. A student must be enrolled at the time of application for graduation. Units earned at an accredited college or university on a credit/no credit basis will be counted toward the degree requirements of the college, to a maximum of 15 units.
2. **MAJOR REQUIREMENT** - Complete the AA or AS major requirements as detailed in the Degree and Certificate section of this catalog.
3. **MATHEMATICS REQUIREMENT** - Demonstrate competence in mathematics by either obtaining a satisfactory grade (grade of "C" or better or "pass") in a mathematics course at or above the level of Intermediate Algebra as demonstrated by prior coursework, or by demonstrating competency that is comparable through the completion of a college-level math course that has Intermediate Algebra as a prerequisite: Psychology A160 or Math A100 or higher, with the exception of Math A220.
4. **GENERAL EDUCATION REQUIREMENT** - Students may choose to complete Option 1 (OCC AA GE) (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-arts-general-education-option-1/>), Option 1 (OCC AS GE) (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/horticulture/horticulture-associate-science-degree/orange-coast/general-education-patterns/associate-science-general-education-option-1/>), Option 2 (CSU GE) (<https://catalog.cccd.edu/orange-coast/general-education-patterns/>), or Option 3 (IGETC (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-degree-general-education-option-3/>)) to satisfy the general education requirement. See the General Education Patterns section of this catalog for more information.

associate-degree-general-education-option-2/), or Option 3 (IGETC (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-degree-general-education-option-3/>)) to satisfy the general education requirement. See the General Education Patterns section of this catalog for more information.

5. **GLOBAL AND MULTICULTURAL REQUIREMENT** (*Required for AA degree only*) Some of the courses listed in this requirement can also be used to meet General Education Requirements. Courses that are repeatable for credit can only be used once in this area. - Select one or more courses from the following totaling 3 units: Anthropology A100*, A100H*, A102*, A190*, Art A108*, Communication Studies A155*, Counseling A107*, A107H*, Dance A130*, A133*, A135*, A137*, A138*, Early Childhood A126, English A152*, A173*, Ethnic Studies A100*, A150*, Fashion A125, Food and Nutrition A185, Geography A185*, History A101*, A110*, A141, A142, A145*, A150*, A151*, A152*, A161*, A161H*, A162*, A162H*, Philosophy A120*, Psychology A105*, Religious Studies A110*, A120*, A140*, A150*, A160, Sociology A100*, A100H*, A115*, A150*, A190* *Denotes courses that fulfill CSU GE Breadth and/ or IGETC requirements.

Course	Title	Units
Year 1		
Fall		
BIOL A183 or HORT A105	Botany ¹ or Botany for Gardeners	3
HORT A109	Knowing Your Soils	3
HORT A181	Ornamental Trees	3
	Units	9
Spring		
HORT A182	Ornamental Shrubs	3
	Units	3
Year 2		
Fall		
Select 12 units of the following:		12
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 Landscaping	
HORT A200	Chronicles of Garden Design through the Ages ²	
HORT A231	Business of Landscape Design and Construction	
HORT A284	Portfolio Development ²	
HORT A290	Low-Voltage Landscape Lighting	
HORT A285	Introduction to Landscape Design ²	
HORT A297	Garden Pools, Fountains and Waterfalls in the Landscape	
	Units	12
Spring		
Select 12 units of the following:		
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 ²	
HORT A230	Calculations for Horticulture and Landscape Professionals	
HORT A284	Portfolio Development ²	

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Course	Title	Units
HORT A285	Introduction to Landscape Design ²	
HORT A283	Therapeutic Gardens: Design for Healing Spaces	
HORT A286	Landscape Design Elements	
HORT A287	Planting Design	
HORT A288	Sprinkler Irrigation Systems Design	
HORT A289	Installation of Residential Irrigation Systems	
Business Elective (any OCC Business course 100 or higher)		
HORT A296	Grading and Drainage for Landscape Design	
Units		0
Total Units		24

¹ Transfer students should also take BIOL A183L Botany Lab.

² HORT A200 Chronicles of Garden Design through the Ages, HORT A284 Portfolio Development, HORT A285 Introduction to Landscape Design taken in Fall term may not be repeated in Spring term.

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