

HORTICULTURE, AAS

Program Code: AAS.HORT1

The Horticulture Department provides quality education and training for industry and community members. Greenhouse, nursery, landscape, arboriculture, and organic farming courses integrate technical knowledge, critical thinking and environmental stewardship.

Horticulture is a hands-on, project-based curriculum with a variety of lecture-lab style classes where students practice industry related skills and experience growing and caring for plants in all seasons throughout the year. Learning activities involve students in the day-to-day operation of a wide range of power and hand tools used in the trade, including: mowers, rototillers, tractors, skid steer loader, pruning tools and greenhouse equipment. Students cultivate plants in CCC's extensive farm, ornamental gardens and greenhouse facilities. This degree sets a foundation for general horticulture, while allowing students to "choose their own adventure" with a wide selection of elective courses that meet their interests.

Students may begin this program any term, although a fall start is recommended. Following the course offerings in the order listed will allow for completion in the one or two-year period.

Oregon State University Transfer Agreement

Some horticulture classes transfer to Oregon State University as part of a bachelor's degree. Horticulture students planning to continue their studies at a four-year college should consult the Horticulture advisor to obtain the most recent transfer information.

For information contact April Chastain, Horticulture Department advisor, 503-594-3055 or april.chastain@clackamas.edu.

Code	Title	Credits
OSU Transfer Courses		
HOR-112	Horticulture Career Exploration	2
HOR-215	Herbaceous Perennials	3
HOR-226	Plant Identification/Fall	4
HOR-228	Plant Identification/Spring	4

Note: Many of the horticulture courses will also transfer as Lower Division Collegiate (LDC) credits.

Outcomes

Related Instruction Outcomes

Computation

- 1 course - MTH-050 Technical Mathematics I or MTH-065 Algebra II or higher
- Use appropriate mathematics to solve problems.

Communication

- 1 course - WR-101 Workplace Writing or WR-121Z Composition I
- Read actively, think critically, and write purposefully and capably for professional audiences.

Human Relations

- 1 course - BA-285 Human Relations in Business or COMM-100Z Introduction to Communication
- Engage in ethical communication processes that accomplish goals.

Physical Education/Health/Safety/First Aid

- 1 course - HOR-115 Horticulture Safety
- Use effective life skills to improve and maintain mental and physical well-being.

Program Outcomes

Upon successful completion of this program, students should be able to:

- demonstrate a broad range of skills in the production and maintenance of plants, including: safe use of tools and equipment, propagation from seeds and cuttings, landscape maintenance activities, growing in a greenhouse environment, and vegetable bed preparation;
- identify common woody plants in the landscape;
- recognize and evaluate key pests and propose solutions based on IPM strategies;
- use a basic understanding of plant biology and soil science to make sound decisions in the production and maintenance of plants;
- display effective decision making, time management and project management skills in the horticulture industry;
- communicate effectively with co-workers and customers through speaking, writing and computer technology.

Requirements

First Year

Fall Term		Credits
HOR-111	Horticulture Practicum/Fall	2
HOR-115	Horticulture Safety	1
HOR-223	Applied Plant Science	4
HOR-226	Plant Identification/Fall	4
Select one of the following:		4-5
MTH-050	Technical Mathematics I	
MTH-065	Algebra II	
Higher Level Math or Statistics		

Credits 15-16

Winter Term

FYE-101	First Year Experience Level I	2
HOR-133	Horticulture Practicum/Winter	2
HOR-216	Integrated Pest Management	3
HOR-222	Horticultural Computer Applications	2
HOR-227	Plant Identification/Winter	4
HOR-230	Equipment Operation & Maintenance	2

Credits 15

Spring Term

HOR-112	Horticulture Career Exploration	2
HOR-120	Pesticide Laws & Safety	1
HOR-140	Soils	3
HOR-143	Horticulture Practicum/Spring	2
HOR-228	Plant Identification/Spring	4

WR-101 or WR-121Z	Workplace Writing or Composition I	4
Credits		16
Summer Term		
HOR-281 or HOR-280 and HOR-282	Horticulture/CWE or Horticulture/CWE and Horticulture/ CWE	6
Credits		6
Second Year		
Fall Term		
BA-285 or COMM-100Z	Human Relations in Business or Introduction to Communication	4
HOR-235 or HOR-236	Weed Identification or Insect Identification	2
SPN-101	First-Year Spanish I	4
Production and Management Focus Area courses (p. 3)		2-3
Electives (p. 2)		3
Credits		15-16
Winter Term		
BA-101	Introduction to Business	4
BA-119	Project Management Practices	2
HOR-231	Irrigation Design	3
HOR-237	Disease Identification	2
Production and Management Focus Area courses (p. 3)		3
Electives (p. 2)		3
Credits		17
Spring Term		
HOR-240	Irrigation Practices	3
Production and Management Focus Area courses (p. 3)		2-4
Electives (p. 2)		8
Credits		13-15
Total Credits		97-101

Production and Management Focus Area

Code	Title	Credits
Arboriculture		
HOR-262	Treework Practicum I	2
HOR-131	Tree & Shrub Pruning	3
HOR-261	Tree Diagnostics	2
Greenhouse/Nursery		
HOR-130	Plant Propagation Techniques	3
HOR-122	Greenhouse I	3
HOR-142	Greenhouse II	3
Landscape		
HOR-224	Landscape Installation	3
HOR-131	Tree & Shrub Pruning	3
HOR-123	Landscape Maintenance	3
Organic Farming		
HOR-113	Organic Farming Practicum/Fall	3
HOR-136	Organic Farming Practicum/Winter	3
HOR-141	Organic Farming Practicum/Spring	4

Electives

Code	Title	Credits
Summer		
HOR-146	Fruit & Berry Growing	3
HOR-211	Native Plant Identification	1
HOR-284	Organic Farming Practicum/Summer	3
Fall		
HOR-113	Organic Farming Practicum/Fall	3
HOR-124	Food Harvest	3
HOR-130	Plant Propagation Techniques	3
HOR-224	Landscape Installation	3
HOR-225	Arboriculture I	3
HOR-235	Weed Identification	2
HOR-236	Insect Identification	2
HOR-252	Kitchen Herbs	1
HOR-262	Treework Practicum I	2
Winter		
HOR-122	Greenhouse I	3
HOR-131	Tree & Shrub Pruning	3
HOR-136	Organic Farming Practicum/Winter	3
HOR-229	Introduction to Landscape Design	3
HOR-239	Tree Climber Training	1
HOR-251	Herbal Products	1
HOR-260	Arboriculture II	3
HOR-290	Special Topics in Horticulture	1-3
Spring		
HOR-123	Landscape Maintenance	3
HOR-126	Landscape Water Features ¹	1
HOR-127	Landscape Lighting ¹	1
HOR-128	Landscape Stones & Pavers ¹	1
HOR-129	Landscape Decks & Fences ¹	1
HOR-135	Propagation of Edible Plants	3
HOR-141	Organic Farming Practicum/Spring	4

Code	Title	Credits
HOR-142	Greenhouse II	3
HOR-215	Herbaceous Perennials	3
HOR-234	Advanced Landscape Design ¹	3
HOR-244	Ecological Landscape Design ¹	3
HOR-246	Organic Farming and Gardening	2
HOR-250	Herb Growing and Gardening	1
HOR-261	Tree Diagnostics	2
Multiple Terms		
BA-223	Principles of Marketing	4
HOR-281	Horticulture/CWE	6
or HOR-280 & HOR-282	Horticulture/CWE and Horticulture/CWE	
WET-109	Backflow Assembly Operation and Testing	4

¹ Offered alternate years.

Careers

Career opportunities include:

- nursery and garden center assistant manager and associate
- nursery production
- greenhouse assistant grower
- organic food production
- supply and equipment sales
- landscape design
- installation and maintenance worker
- parks department personnel
- groundskeeper