

LANDSCAPE MANAGEMENT, ARBORICULTURE OPTION, AAS

Program Code: AAS.LANDMGMTARBOR

This degree prepares students for a career in arboriculture and urban forestry, providing the necessary knowledge base to pass the International Society of Arboriculture (ISA) Certified Arborist exam. Courses within this program are useful for both beginning students and working arborists trying to expand the breadth and depth of their knowledge. It provides a learning environment free of the demands of production arboriculture to practice techniques used in climbing, rigging, and operations management. We focus on safety, efficiency, and the reasoning behind industry standard planting, pruning, communication, tree health, and risk assessment. Students use common tree care equipment to manage CCC's arboretum and campus trees, gaining practical experience to enhance their knowledge.

Students are encouraged to start as a cohort in fall, as several classes in this program have pre- or co-requisites. Following the course offerings in the order listed allows for completion in a 2-year period, but isn't required. Part-time students should check with the Horticulture advisor to determine an appropriate schedule. Working arborists are encouraged to attend and can have the prerequisites waived for higher-level classes, with enough on-the-job experience.

Oregon State University Transfer Agreement

Some horticulture classes transfer to Oregon State University as part of a bachelor's degree. Arboriculture 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.

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 - HE-252 First Aid/CPR/AED
- Use effective life skills to improve and maintain mental and physical wellbeing.

Program Outcomes

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

- demonstrate competency with the use of standard arboriculture equipment, including: climbing gear, chainsaw, chipper, hydraulic sprayer, truck and trailer;
- identify common woody and herbaceous plants in the landscape;
- recognize and identify key biotic and abiotic disorders in trees;
- perform site assessments, including: plant health inspections of key plants, hazard tree identification, and water audit interpretations;
- effectively communicate with co-workers and customers through speaking, report writing and computer technology.

Requirements

First Year

Fall Term		Credits
HE-252	First Aid/CPR/AED ¹	3.00
HOR-115	Horticulture Safety	1.00
HOR-223	Applied Plant Science	4.00
HOR-226	Plant Identification/Fall	4.00
HOR-236	Insect Identification	2.00
Credits		14

Winter Term

HOR-131	Tree & Shrub Pruning	3.00
HOR-216	Integrated Pest Management	3.00
HOR-222	Horticultural Computer Applications	2.00
HOR-227	Plant Identification/Winter	4.00
HOR-230	Equipment Operation & Maintenance	2.00
HOR-239	Tree Climber Training	1.00
Credits		15

Spring Term

BA-285 or COMM-100Z or COMM-111Z or COMM-140 or COMM-218Z	Human Relations in Business or Introduction to Communication or Public Speaking or Introduction to Intercultural Communication or Interpersonal Communication	4.00
HOR-120	Pesticide Laws & Safety	1.00
HOR-140	Soils	3.00
HOR-228	Plant Identification/Spring	4.00
WR-101 or WR-121Z	Workplace Writing or Composition I	4.00
Credits		16

Summer Term

HOR-211	Native Plant Identification	1.00
HOR-280	Horticulture/CWE	3.00
Credits		4

Second Year**Fall Term**

HOR-225	Arboriculture I	3.00
HOR-262	Treework Practicum I	2.00

Select one of the following: 4.00-5.00

MTH-050	Technical Mathematics I	
MTH-065	Algebra II	
	Higher Level Math or Statistics	

Electives (p. 2) 3.00

Credits 12-13

Winter Term

BA-119	Project Management Practices	2.00
HOR-229	Introduction to Landscape Design	3.00
HOR-237	Disease Identification	2.00
HOR-260	Arboriculture II	3.00

Electives (p. 2) 3.00

Credits 13

Spring Term

HOR-123	Landscape Maintenance	3.00
HOR-215	Herbaceous Perennials	3.00
HOR-261	Tree Diagnostics	2.00
HOR-263	Plant Health Care Practicum	2.00
HOR-282	Horticulture/CWE	3.00

Electives (p. 2) 3.00

Credits 16

Summer Term

HOR-281	Horticulture/CWE	6.00
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Credits 6

Total Credits 96-97

¹ May be waived with current CPR certification

Careers

Career opportunities include:

- climbing arborist
- plant health care technician
- city forester
- grounds keeper
- plant pathologist

Electives

Code	Title	Credits
Summer		
HOR-146	Fruit & Berry Growing	3.00
Fall		
HOR-118	Spanish for Horticulture	4.00
HOR-224	Landscape Installation	3.00
HOR-235	Weed Identification	2.00
HOR-264	Treework Practicum II (Aerial)	2.00
Winter		
HOR-231	Irrigation Design	3.00
HOR-290	Special Topics in Horticulture	1.00
Spring		
BA-207	Prepping for Business Success	4.00
HOR-240	Irrigation Practices	3.00
HOR-244	Ecological Landscape Design	3.00
HOR-249	Landscape Bidding and Estimating	1.00
Multiple Terms		
FYE-101	First Year Experience Level I	2.00