

Agroecology, Horticulture and Environmental Quality

Horticulture & Urban Landscape Management Option

Why study horticulture and urban landscape management?

Are you curious about how soils, microbes, and plants contribute to healthy—and not-so-healthy—landscapes and turf?

Do you enjoy working outdoors or in greenhouses?

Do you like to grow flowers, fruits, shrubs, trees, or vegetables?

Are you interested in applying sound science to keeping landscapes healthy and attractive?

Students enrolled in the **horticulture and urban landscape management option** focus on producing horticultural crops or on managing and maintaining urban landscapes including trees, shrubs, flowering plants, and turf. This option provides a background in environmental awareness and protection of natural resources.

Program strengths/highlights

You can specialize in horticultural field production of crops, flowers, vegetables and fruits, shrubs and trees, or in landscape maintenance, including golf or sports turf management.

You will do an internship with a commercial or municipal horticultural enterprise, such as greenhouses, nurseries, vineyards, golf courses, parks, or managed landscapes, or you can design and complete a research project.

Faculty and facilities

Faculty instructors and advisors are committed to educating and assisting students. Our faculty members also interact with green industries throughout the United States and keep up-to-date on employment trends. Urban landscapes, greenhouses, and field plots are available for student research, coursework, and hands-on learning.

Specialized clubs

The University of Idaho chapter of the Student Society of Arboriculture (UJSSA), a recognized student branch of the International Society of Arboriculture-Pacific Northwest Chapter, is for all students interested in trees and tree-related issues on campus, in the local community, and in the Pacific Northwest. Annual activities include tree planting and nursery operations, tree-climbing events, and tree education for local schools.

Career opportunities

You will be prepared for positions in the booming green industries. Career opportunities include utility, municipal, and commercial tree care; landscape design; landscape construction; landscape, tree, and turf maintenance; and plant health care. You might also go on to careers in horticultural research, extension, or plant breeding.

Field representative—Work for a processing company, helping to ensure that contract growers produce an adequate supply of high-quality crops for processing. Advise growers on crop cultivars and field practices.

Golf course superintendent—Provide technical advice to maintain a high-quality landscape, including turf; communicate with suppliers and customers.

Grounds supervisor—Train workers and coordinate grounds maintenance. Often, work directly with general management in plant maintenance and improvement.

Sod producer—Plant, grow, harvest, and market sod for supply to landscape contractors and others involved in installation.

Arborist and urban forester—Provide care, cultivation, and management of trees and shrubs. Often, work for a large park, community, or state organization.

Grower—Take charge of all stages of the production of one crop or many. Train workers and supervise crop production employees. Large firms employ many growers.

Product buyer—Investigate producers of cut flowers, potted plants, foliage, and hard goods, and stay in communication with them. Determine the availability of supplies, make recommendations to managers, and monitor the quality of plants and supplies being received.

Propagator—Produce new plants by techniques such as grafting, budding, cutting, and tissue culture. Oversee the work and training of propagation crews.

Viticulture assistant—Work with a wine-making team and aid in decision-making during the process of making fine wines.

“The PSES department is awesome because professors know you and care! At the same time, it's big enough to offer amazing opportunities and a variety of clubs to get involved in.” **Mary Barstow, crop science major**

**Horticulture & Urban
Landscape Management Option**
4-year plan 2007-08

Fall			Spring		
Freshman					
Comm 101	Fundamentals of Public Speaking	2	Chem 101	Intro. to Chemistry I	4
CORE 103-149	Core Discovery	4	CORE 153-199	Core Discovery	3
Engl 101	Basic Skills—Writing	3	Engl 102	Essay Writing	3
Math 143	Pre-Calculus Algebra & Analytic Geometry	3	Biol 115	Cells & Evolution of Life	4
or Math 160	Survey of Calculus	4	PISc 201	Principles of Horticulture	3
PISc 102	Science of Plants in Ag.	3			
TOTAL		15-16	TOTAL		17

Sophomore					
Geog 385	GIS Primer	3	Biol 213	Prin. of Biol. Structure & Function	4
Chem 275	Carbon Compounds	3	or PISc 205	General Botany	4
Chem 276	Carbon Compounds Lab	1	MMBB 154/155	Intro. Microbiology/Lab	4
Soil 205	Soil Ecosystem	3	or MMBB 250/255	General Microbiology/Lab	5
Soil 206	Soil Ecosystem Lab	1	Stat 251	Statistical Methods	3
Elective	Core Cluster Course	3	Elective	Core Cluster Course	3
Elective	Ecology Elective	2-4	Elective**	Horticulture Elective	3
TOTAL		16-18	TOTAL		17-18

Junior					
Ent 322	Economic Entomology	3	Gene 314	General Genetics	3
PISc 338	Weed Control	3	Elective	Biotech Elective	3
PISc 398	Internship	3	Elective	Core Cluster Course	3
or PISc 499	Directed Study	3	Elective**	Horticulture Elective	3
PISc 415/416	Plant Pathology/Lab	4	Elective*	Specialization Course	3
Elective**	Horticulture Elective	3			
TOTAL		16	TOTAL		15

Senior					
PISc 400	Seminar	1	Soil 446	Soil Fertility	3
Engl 313	Business Writing	3	PISc 401	Plant Growth and Development	3
or Engl 317	Technical Writing	3	PISc 438	Pesticides in the Environment	3
MMBB 300	Survey of Biochemistry	3	Elective*	Specialization Course	3
Elective*	Specialization Course	3	Elective*	Specialization Course	3
Elective**	Horticulture or Core Cluster Course	3			
Elective	General Elective	3			
TOTAL		16	TOTAL		15

Note: Course offerings may change from year to year. Always check the current course catalog.

* Specialization courses include any courses in accounting, animal and veterinary sciences, agricultural economics, biology, business, business education, business law, chemistry, computers, economics, entomology, foreign language (4 credits max), forestry, landscape architecture, molecular biology/biochemistry, physics, plant science, range, or soils.

**Horticulture electives can be selected from the following plant science (PISc) courses: 300, 302, 310, 311, 313, 320, 321, 334, 340, 341, 418, 433, 439, 464, 480, or 499.

To learn more
Call toll free 1.88.88.UIDAHO
<http://www.uidaho.edu>

Kim Nelson
Student Recruitment Coordinator
College of Agricultural and Life Sciences
208.885.7984 • kanelson@uidaho.edu
<http://www.cals.uidaho.edu>

Lisa Washburn
Plant, Soil and Entomological Sciences
208.885.6930 • lisaw@uidaho.edu
<http://www.cals.uidaho.edu/pses>