Agroecology, Horticulture, and Environmental Quality

HORTICULTURE AND URBAN LANDSCAPE MANAGEMENT OPTION

Grow flowers, fruits, vegetables, and trees; join the green industry.

THIS MAJOR IS A GOOD FIT
IF YOU CAN SEE YOURSELF:

MANAGING A CHAMPIONSHIP GOLF COURSE, taking charge of a botanic garden, running your own vegetable farm, or overseeing sales, inventory, and marketing for a major greenhouse or nursery

RESPONDING TO CONSUMER TRENDS and environmental pressures

DRAWING ON INFORMATION from microbiology, entomology, engineering, business, and other fields

Learn the science and skills of growing plants from seed to sales product. Focus either on growing horticultural crops—flowers, woody landscape plants, fruits, and vegetables, including famous Idaho potatoes, or on managing and maintaining urban landscapes, including golf courses and sports turf. Our curriculum is flexible, so if your goal is contracting, study more business. If you dream of breeding roses, delve deeply into molecular biology and genetics.

Horticulture scientists at the University of Idaho are selecting native plants for low-input landscapes, domesticating the wild mountain huckleberry, measuring the water savings of drip irrigation, evaluating specialty potato varieties, and much more.

INSIDE THE CLASSROOM
Study plant propagation, crop production, pollination, post-harvest handling, landscape and turf management, and pest control. Learn to multiply plants using techniques from simple stem cuttings to sterile tissue culture. Take field trips to nurseries, golf courses, and top-of-the line landscape installations. Build a water garden or patio. You'll get more hands-on opportunities at our on-campus plant science farms and computer-controlled greenhouses.

OUTSIDE THE CLASSROOM

INTERN. Get practical experiences like these: MONROVIA Take part in propagation, shipping, research, sales, and other aspects of a large wholesale nursery . . . GOLF COURSE Manage turf on fairways and greens . . . UI POTATO TISSUE CULTURE LABORATORY Produce disease-free plantlets and minitubers for certified seed potato production.

STUDY ABROAD. Deepen your understanding of your major—and the world—in countries like these: TAIWAN Study orchid production . . . MEXICO Tour greenhouses that supply 80% of cherry tomatoes sold in the U.S. . . INDIA Observe 1,000-year-old farming practices on terraced hillsides.

DO RESEARCH. Make hands-on discoveries. Assist in a faculty research project or do your own independent study. Develop potting mixes containing cattle biosolids. Work out genetic engineering techniques for flowering plants. Test mustard seed meal's ability to control weeds in horticultural crops. Paid positions are available.

VOLUNTEER. Give back. Donate produce from the UI organic farm to a local food bank. Prune apple trees on the Nature Conservancy's historic ranch on the Snake River.

GET INVOLVED. Network and have fun. PLANT AND SOIL SCIENCE CLUB Grow poinsettias and garden plants for sale; visit Portland's Japanese and rose gardens . . . INTERNATIONAL SOCIETY OF ARBORICULTURE Join the student chapter for tree-related activities . . . SOIL STEWARDS Grow organic fruits and vegetables for sale.

FASTFACT

Students take field trips to Portland or Seattle and donate to Christmas for Kids with proceeds from their club's poinsettia sales.

CAREER OPPORTUNITIES
Our graduates get jobs at greenhouses, nurseries, parks, athletic facilities, universities, and government agencies.

Here are a few possibilities:

LANDSCAPE DIRECTOR. Monitor, maintain, and improve golf courses or the grounds of cities, schools, or hospitals.

PROPAGATOR. Produce new plants through grafting, budding, cutting, tissue culture, and genetic manipulation.

LANDSCAPE CONTRACTOR. Design and install complete landscapes.

GREENHOUSE MANAGER. Test, analyze, and modify growing conditions to improve production and cut costs.

ARBORIST AND URBAN FORESTER. Establish and maintain trees and shrubs for a large park, city, or state agency.

GROWER. Oversee day-to-day production of vegetables, fruits, or landscape plants; supervise employees in irrigation, equipment maintenance, and other activities.

FIELD REPRESENTATIVE. Work for a company that sells machinery, fertilizers, and pest management supplies to golf courses, greenhouses, and nurseries. Recommend products and explain their use.

RESEARCHER. Develop innovative techniques for growing, handling, and marketing horticultural crops.

COMBINE YOUR EDUCATION. A second language can broaden your career options. Depending on your goals, take classes in communication, business, or landscape architecture.

CONTINUE YOUR EDUCATION. Earn an advanced degree in plant breeding or sustainable production techniques.

FIND OUT MORE ABOUT THE AGROECOLOGY, HORTICULTURE, AND ENVIRONMENTAL QUALITY MAJOR

WWW.CALS.UIDAHO.EDU/PSES

	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
FALL	**Comm 101** 2 Fundamentals of Public Speaking	**Chem 275/276** 4 Carbon Compounds/Lab	**Ent 322** 3 Economic Entomology	**Engl 313** 3 Business Writing
	CORE 103-149 4 Core Discovery Course	**Geog 385** 3 GIS Primer	**PlSc 338** 3 Weed Control	*or* **Engl 317** 3 Technical Writing
	Engl 101 3 Intro. to College Writing	**Soil 205/206** 4 Soil Ecosystem/Lab	**PlSc 398** 3 Internship	**MMBB 300** 3 Survey of Biochemistry
	Math 143 3 Pre-Calculus Algebra & Analytic Geometry *or* **Math 160** 4 Survey of Calculus	**Elective** 3 Elective—Core	*or* **PlSc 499** 3 Directed Study	**PlSc 400** 1 Seminar
		Elective 2-4 Elective—Ecology	**PlSc 415/416** 4 Plant Pathology/Lab	**Elective** 3 Elective—Horticulture *or* Core
	PlSc 102 3 Science of Plants in Agriculture		**Elective** 3 Elective—Horticulture	**Elective** 3 Elective—Specialization
				Elective 3 Elective
	TOTAL 15-16	**TOTAL 16-18**	**TOTAL 16**	**TOTAL 16**
SPRING	**Biol 115** 4 Cells & Evolution of Life	**Biol 213** 4 Prin. of Biol. Structure & Function	**Gene 314** 3 General Genetics	**PlSc 401** 3 Plant Growth & Development
	Chem 101 4 Intro. to Chemistry I	*or* **PlSc 205** 4 General Botany	**Elective** 3 Elective—Biotech	**PlSc 438** 3 Pesticides in the Environment
	CORE 153-199 3 Core Discovery Course	**MMBB 154/155** 4 Intro. Microbiology/Lab	**Elective** 3 Elective—Core	**Soil 446** 3 Soil Fertility
	Engl 102 3 College Writing & Rhetoric	*or* **MMBB 250/255** 5 General Microbiology/Lab	**Elective** 3 Elective—Horticulture	**Electives** 6 Electives—Specialization
	PlSc 201 3 Principles of Horticulture	**Stat 251** 3 Statistical Methods	**Elective** 3 Elective—Specialization	
		Elective 3 Elective—Core		
		Elective 3 Elective—Horticulture		
	TOTAL 17	**TOTAL 17-18**	**TOTAL 15**	**TOTAL 15**

Total for degree = 128 credits. Course offerings may change from year to year. Always check the current course catalog.

TO LEARN MORE
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"I selected this major because I have a great passion for plant sciences. I also hope to one day produce wine. Horticulture prepares me to face problems of contamination, disease, and even falling yield and to know what measures can be taken to fix them."

JULIE HILLAND , *horticulture and urban landscape management option*

University of Idaho
College of Agricultural and Life Sciences