HORTICULTURE GRADUATE MAJOR (MS, PHD)

This major offers the following option(s):

- Entomology (http://catalog.oregonstate.edu/college-departments/agricultural-sciences/horticulture/horticulture-ms-phd/entomology-option/)
- Plant Breeding and Genetics (http://catalog.oregonstate.edu/college-departments/agricultural-sciences/horticulture/horticulture-ms-phd/plant-breeding-genetics-option/)

The Department of Horticulture offers graduate work leading to the Master of Science (MS) and Doctor of Philosophy (PhD) degrees. The MS and PhD degrees culminate in original research reported in a thesis and are often pursued by students interested in research related careers, or who wish direct training in research methods.

The Department of Horticulture has strengths and expertise in:

**Breeding, Genetics, and Biotechnology.** Faculty and students explore fundamental questions related to the control and regulation of plant traits using a variety of techniques and tools including molecular biology, genomics and bioinformatics. Faculty and students also apply fundamental knowledge to make genetic improvements to crop plants and to modify plant growth and productivity. Current breeding programs exist in berry, hazelnut and vegetable systems.

**Sustainable Crop Production.** Faculty and students explore basic and applied questions related to the design and management of sustainable and productive horticultural cropping and farming systems. The program integrates a diverse set of disciplines and tools including basic plant sciences, applied crop management, and field experimentation and analysis. Program areas include viticulture and enology, berries and small fruit, tree fruit and nuts, vegetables, nursery and greenhouse production, and entomology.

**Community and Landscape Horticultural Systems.** Faculty and students explore basic and applied questions related to the design and function of urban and community landscapes including golf courses, sports fields, gardens, parks and open space. Program areas include turf and landscape management, community food systems, pollinator ecology, sustainable landscapes, and entomology.

For more information, visit our website (http://horticulture.oregonstate.edu), contact a member of the graduate faculty, or contact John Lambrinos, Graduate Coordinator, Department of Horticulture, 4017 Agricultural and Life Sciences Building, OSU, Corvallis, OR 97331-7304, email: john.lambrinos@oregonstate.edu

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