Environmental Horticulture and Urban Forestry

Environmental Horticulture and Urban Forestry

(College of Agricultural and Environmental Sciences)

Faculty. See Department of Plant Sciences, on page 476.

The Major Program

Students majoring in Environmental Horticulture and Urban Forestry learn how plants improve the environment and the quality of our lives. The major focuses on the biological and physical concepts and horticultural principles of plant production, management of plants and plant ecosystems in landscape settings and sociological aspects of plant/ people interactions in the urban environment. Plants are used to revegetate and restore disturbed landscapes, control erosion, improve water quality, and improve and water consumption. The ornamental use of plants to improve the aesthetic quality of urban and rural landscapes, recreational areas, interspaces and commercial sites is an important aspect of the UC Davis Extension. Students may select one or more of the following three areas of specialization: Floriculture/Nursery, Plant Biology, Environmental Horticulture and Restoration, or Urban Landscape Management.

Internships and Career Opportunities. Students are encouraged to develop internships on or off campus to augment their activities in the classroom and laboratory. Internships are available with the department, the UC Davis Arboretum, landscape designers, government agencies or regional nurseries. Career opportunities in this field include growing and/or managing plants in a variety of settings, including nurseries and arboretums, consulting as an urban, landscape, or restoration horticulturist; business ownership; working for public agencies or private landscape firms/corporations; park management and landscape contracting.

B.S. Major Requirements:

UNITS Communications 1 recommended as part of the College English Composition Requirement or the Words and Images Core Literacy Component.

Preparatory Subject Matter: Environmental Horticulture 1 and 2, 4-6
Landscape Architecture 30, 4
Biological Sciences 2A, 2B, and Plant Sciences 2, 14
Chemistry 2A-2B, 10
Plant Science 21, 6
Mathematics 16A or Statistics 13, 3-4
University Writing Program 102B, 102E, 104E, or other upper division composition course (may overlap with college composition requirement; may be satisfied by passing the English Composition exam) 0-4
Lower division restricted electives 6
Select one lower division resource science course and one lower division social science/humanities course in consultation with adviser; minimum 6 units.

Depth Subject Matter: Environmental Horticulture 102 or Plant Sciences 100A, 4-6
Environmental Horticulture 105 or Plant Sciences 100B, 4-5
Plant Biology 117 or Plant Sciences 150, 4
Plant Sciences 171, 4
Soil Science 100, 5
Select two upper division courses 110, 110
Nematology 100, Plant Pathology 120, Plant Sciences 105 or 176, 7-9
Plant Sciences 192 (minimum of 3 units) 3-5
Upper division restricted electives 12
Select two upper division resource science courses and two upper division social science/humanities courses in consultation with adviser; minimum 6 units.

Areas of Specialization (choose one)

No course may be used to satisfy more than one requirement.

Floriculture/Nursery Option: Environmental Horticulture 120, 125, 8
Applied Biological Systems Technology 165
Entomology 135, 4
Plant Sciences 100C or 158 or Soil Science 109, 4

B. Biodiversity/Restoration Option: Environmental Horticulture 160, 4

Environmental Horticulture 150, or Evolution and Eco100, or Plant Biology 116, 3-5
Select one course from: Environmental Science and Management 141, Environmental Science and Policy 127, 155, Plant Sciences 130, 150, Wildlife, Fish, and Conservation Biology 155, 3-4
Select one course from: Environmental Science and Policy 155, Plant Biology 108, 117, 119, Plant Sciences 102, 144, 147, 147, 163, 176, Wildlife, Fish, and Conservation Biology 156, 157, 3-5
Select one additional class from section a or b, 3-5

Urban Landscape Management Option: Environmental Horticulture 100, 133, 8
Applied Biological Systems Technology 165, 2
Plant Sciences 162, 3
Science and Society 18 or Landscape Architecture 150, 3-4

Total Units for the Major: 114-130

Major Adviser. T.P. Young

Advising Center for the major is located in 2224 Plant and Environmental Sciences 53075-7738.

Environmental Policy Analysis and Planning

[College of Agricultural and Environmental Sciences]

The Major Program

The major in environmental policy analysis and planning develops skills for designing and assessing policy in fields related to environmental quality and natural resource management and an understanding of governmental policymaking. Any student in good standing is eligible to transfer to the major; to do so, please see the staff adviser, Melissa Whaley, in 2134 Wickson Hall, or the master adviser, Prof. J. Sanchirico, in 2102 Wickson Hall.

The Program. This major provides students with a strong background in policy analysis, including the evaluation of policy alternatives and the study of factors affecting policy formulation and implementation. Key components of this interdisciplinary training include a general background in the natural sciences relevant to environmental policy, economics, political science, statistics, and research methodology to quantitatively analyze environmental problems and policy options. In addition, students are encouraged to develop substantive knowledge in a specific field of environmental policy, such as urban and regional planning, water policy, transportation and energy, climate policy, or conservation management.

Careers. Environmental policy analysis and planning graduates are prepared for employment in environmental, natural resource, energy, and transportation focused public agencies, consulting firms, nongovernmental organizations, and businesses, or as legislative aids for elected representatives. The major is also excellent preparation for students who want to go on to graduate school in law, planning, public policy, science, economics, or business.

B.S. Major Requirements:

UNITS English Composition and Public Speaking Requirement: 3-8
University Writing Program 101, 102A-G, 104A-E, or passing the Upper Division English Composition exam 0-4
Communication 1 or 3 or Dramatic Art 10 0-3-4

Quarter Offered. I-Fall, II-Winter, III-Spring, IV-Summer, 2011-2012 offering in parentheses.