Environmental Horticulture and Urban Forestry

(College of Agricultural and Environmental Sciences)

Faculty. See Department of Plant Sciences, on page 514.

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 and reduce energy and water consumption. The major prepares students to improve the aesthetic quality of urban and rural landscapes, recreational areas, interiòrs and commercial sites is an important aspect of this major. Students may select one or more of the following resource areas of specialization: Floriculture/Nursery, Plant Biodiversity/Restoration, or Urban Landscape Management.

Internships and Career Opportunities. Students are encouraged to develop internships or off campus to augment their activities in the classroom and laboratory. Internships are available with the department's greenhouse facility, the UC Davis Arboretum, landscape designers, local nurseries, government agencies, regional non-profits, and restoration firms. Career opportunities in this field include growing, managing plants in a variety of settings, including nurseries and arborists, working as a consultant, or in urban, landscape, or restoration horticulture, business ownership, park management design and construction, working in the public or private sector, or for non-profit organizations.

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 6
Landscape Architecture 30
Biological Sciences 2A, 2B, and Plant Sciences 2
Chemistry 2A-2B
Environmental Science and Policy 1 or 10 or 30
Physics 1A-1B
Plant Sciences 100C or 158 or Soil Science 100
Mathematics 16A or Statistics 13
University Writing Program 102B, 102G, 104E, or other upper division composition course (may overlap with college composition requirement) must be approved by passing the English Composition Exam
Lower division restricted electives
Select one lower division 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
Environmental Horticulture 105 or Plant Sciences 102 or Plant Biology 108
Plant Biology 117 or Plant Sciences 150
Soil Science 100
Select two courses from Entomology 110, Neurobiology 100, Plant Pathology 120, Plant Sciences 100C or 158 or Soil Science 109
Internship or research; must be approved by major adviser
Upper division restricted electives
Select two upper division science courses and two upper division social science/humanities courses in consultation with adviser; minimum 12 units.

Areas of Specialization (choose one)
No course may be used to satisfy more than one requirement.

Floriculture/Nursery Option
Environmental Horticulture 120, 125
Applied Biological Systems Technology 165
Entomology 130
Plant Sciences 100C or 158 or Soil Science 109
Plant Biodiversity/Restoration
Environmental Horticulture 160, 165
Environmental Horticulture 116
[Select one course from: Environmental Science and Policy 127, 155L, Plant Sciences 130, 150, Wildlife, Fish, and Conservation Biology 155]
[Select one course from: Environmental Science and Policy 155, Plant Biology 108, 117, 119, Plant Sciences 102, 144, 147, 141, 163, 176, Wildlife, Fish, and Conservation Biology 156, 157]
Select one or additional course from section a or b
Urban Landscape Management
Environmental Horticulture 100, 133
Applied Biological Systems Technology 165
Plant Sciences 162
Science and Society 18 or Landscape Architecture 150
Total Units for the Major

Advising Center for the major is located in 1224 Plant and Environmental Sciences 530.752.7738

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 sustainable policies for environmental quality and natural resource management.

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. Core knowledge 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, non-governmental 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 work in law, planning, public policy, political science, economics, or business.

B.S. Major Requirements:

UNITS
English Composition and Public Speaking Requirement
University Writing Program 101, 102A-G, 104A-E, or passing the Divisional English Composition exam
Communication 1 or 3 or Dramatic Art 10
Preparatory Subject Matter
Biological Sciences 2A, 10, or 10V, Chemistry 2A or 10, and Physics 1A
Biological Sciences 2B or Chemistry 2B or Physics 1B
Plant Sciences 21, or Science & Society 18
Economics 1A, 1B
Animal Science 1, Agricultural Science 60, Environmental Science & Management 100, Geology 1 or 134, Plant Sciences 12, or Wildlife, Fish & Conservation Biology 11

Fall 2011 and on Revised General Education (GE) Areas:
Arts and Humanities: AHI
Science and Engineering: SE
Social Sciences: SS
American Cultures: AC
Diverse Sociocultural Studies: D
American Cultures: DD
Diverse Domestic Studies: DS
 Oral, Written, and Visual Communication: VL
 World Cultures: WC
Writing Experience: WE

Pre-Fall 2011 General Education (GE):
Arts and Humanities: SCI
Science and Engineering: SOC
Social Sciences: DIV
Oral, Written, and Visual Communication: WRT
Quarter Offered: Fall, Winter, Spring, Summer; 2017-2018 offering in parentheses