

# Environmental Horticulture and Urban Forestry

(College of Agricultural and Environmental Sciences)

**Faculty.** See Department of [Plant Sciences](#), on page 448.

## 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 ornamental use of plants to improve the aesthetic quality of urban and rural landscapes, recreational areas, interiorscapes and commercial sites is an important aspect of this major. Students may select one of the following four areas of specialization: Urban Forestry, Floriculture/Nursery, Landscape Management/Turf, or Plant Biodiversity/Restoration.

**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's greenhouse facility, 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, golf courses and arboreta, 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

### English Composition Requirement ..... 0-8

See College requirement; Communications 1 recommended.

### Preparatory Subject Matter..... 61-69

Environmental Horticulture 1 and 6 .....	7
Landscape Architecture 30 .....	4
Biological Sciences 1A, 1B, 1C, or Biological Sciences 2A, 2B, and Plant Sciences 2 .....	13-15
Environmental Science and Policy 1 or 10.....	3-4
Chemistry 2A-2B .....	10
Physics 1A-1B .....	6
Plant Sciences 21 and either Mathematics 16A or Statistics 13.....	6-7
Select two lower division resource science courses and two lower division social science/humanities courses in consultation with adviser.....	12-17

### Breadth/General Education ..... 0-24

### Depth Subject Matter ..... 32-37

Environmental Horticulture 102 .....	4
Soil Science 100.....	5
Plant Sciences 171 .....	4
Environmental Horticulture 105 or Plant Biology 102 or 108 .....	4-5
Plant Sciences 192 (minimum of 3 units) ...	3
Select two upper division resource science courses and two upper division social science/humanities courses in consultation with adviser.....	12-16

### Areas of Specialization (choose one)

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

### Urban Forestry Option..... 27

Environmental Horticulture 100, 101, 130, 133 .....	14
Entomology 110 .....	5
Plant Biology 147 .....	4
Plant Pathology 120.....	4

### Floriculture/Nursery Option ..... 27

Environmental Horticulture 120, 125.....	8
Applied Biological Systems Technology 165 .....	2
Entomology 110, 135 .....	9
Plant Sciences 142.....	4
Plant Pathology 120.....	4

### Landscape Management/Turf Option .... 27

Environmental Horticulture 129, 130, 133 .....	12
Applied Biological Systems Technology 165 .....	2
Entomology 110 .....	5
Plant Biology 117 .....	4
Plant Pathology 120 .....	4

### Plant Biodiversity/Restoration

#### Option ..... 21-32

Select two courses from Plant Sciences 130, 150, Environmental Horticulture 160/160L, Environmental and Resource Sciences 141, Environmental Science and Policy 125C, 155L, Landscape Architecture 180F, Soil Science 112, Wildlife, Fish, and Conservation Biology 155 .....	5-8
Select three courses from Environmental and Resource Sciences 173, Environmental Science and Policy 155, Plant Biology 102, 108, 117, 119, 147, Plant Sciences 144, 176, Wildlife, Fish, and Conservation Biology 156, 157 .....	10-14
Environmental Horticulture 150, or Evolution and Ecology 100, or Plant Biology 116 .....	3-5
Entomology 103 or 107 or 110, or Plant Pathology 120, or Soil Science 112.....	3-5

### Unrestricted Electives ..... 10-56

### Total Units for the Degree ..... 180

**Major Adviser.** D.W. Burger

**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 an understanding of governmental policy-making and skills for analyzing policy in fields related to environmental quality.

Any student in good standing is eligible to transfer to the major; to do so, please see the major adviser, Paul Sabatier in 2144 Wickson Hall or Kimberly Mahoney in 2134 Wickson Hall.

**The Program.** This major provides students with a general background in the natural sciences relevant to environmental policy. It also provides sufficient training in mathematics, statistics, and research methodology to quantitatively analyze environmental problems and policy options. A strong background in policy analysis, including the evaluation of policy alternatives and the study of factors affecting policy formulation and implementation is included. In addition, students are encouraged to develop substantive knowledge in a specific field of environmental policy, such as urban and regional planning, water pollution control, or energy.

**Career Alternatives.** Environmental policy analysis and planning graduates are prepared for employment in public agencies, consulting firms, and businesses concerned with environmental affairs. The major is also excellent preparation for students who want to go on to graduate work in law, planning, public policy, or management.

## B.S. Major Requirements:

UNITS

### English Composition Requirement ..... 7-16

See College requirement.....	0-8
University Writing Program 101, 102A, 104A, 104B, 104C, 104D, or 104E.....	4
Communication 1 or 3 or Dramatic Art 10 .....	3-4

### Preparatory Subject Matter ..... 50-56

Biological Sciences 1A or 2A or 10 or 10V .....	4-5
Chemistry 2A, 2B .....	10
Plant Sciences 21, or Science & Society 18 .....	3
Economics 1A, 1B .....	8
Animal Science 1, Biological Sciences 1B or 2B, Geology 1, Hydrologic Science 124, Plant Biology 12, Soil Science 100.....	3-5
Environmental Science and Policy 1 .....	4
Mathematics 16A-16B or 21A-21B .....	6-8
Physics 1A or 7A.....	3 or 4
Political Science 1.....	4
Statistics 13, 32, 102 .....	3-4

### Breadth/General Education ..... 6-24

Satisfaction of General Education requirement.

### Depth Subject Matter ..... 43-44

(Students must take these units on a letter grade basis, and must attain an overall grade point average of 2.000 or higher in the Depth Subject Matter courses.)

Environmental Science and Policy 110, 160, 164, 168A.....	16
Environmental Science and Policy 172 or Political Science 187.....	4
Environmental Science and Policy 161 .....	4
Environmental Science and Policy 171 or 179 .....	3-4
Environmental Science and Policy 178 .....	4
Select one course from Sociology 106, Statistics 100, 103, 108, or Agricultural and Resource Economics 106.....	4
Economics 100 or Agricultural and Resource Economics 100A.....	5
Environmental Science & Policy 175 or Agricultural and Resource Economics 176 .....	4
Students must select courses in the Areas of Specialization that have not been taken in the Depth Subject Matter.	

### Areas of Specialization

#### (choose one) ..... 16-24

#### Advanced Policy Analysis Option

Select one course from Political Science 100, 104, 105, 120, 122, 155 or Environmental Science and Policy 169 ...	3-4
Select one course from Political Science 162, 164, or 170 .....	4
Select one course from Political Science 124, 126, or American Studies 101G .....	4
Select one course from Applied Biological Systems Technology 180, 185 or Environmental and Resource Sciences 186, 186L.....	4-5
Select one course from Civil and Environmental Engineering 153, Agricultural and Resource Economics 106, or Economics 130 .....	4

#### City and Regional Planning Option

Select one course from Applied Biological Systems Technology 180, 185, or Environmental and Resource Sciences 186, 186L.....	4-5
Select one course from Civil and Environmental Engineering 165, Environmental Science and Policy 163 ...	3-4

Quarter Offered: I=Fall, II=Winter, III=Spring, IV=Summer; 2009-2010 offering in parentheses

General Education (GE) credit: ArtHum=Arts and Humanities; SciEng=Science and Engineering; SocSci=Social Sciences; Div=Social-Cultural Diversity; Wrt=Writing Experience