Sustainable and Organic Horticulture Program of Study

The Sustainable and Organic Horticulture Concentration in the Department of Horticulture prepares students for careers in farming, community food systems and urban agriculture. This option is also excellent for students interested in graduate study. The "Sustainability" or "Sustainable Agriculture and Food System" specializations may also be completed.

University Requirements:

Writing Tier I: Writing, Rhetoric & American Cultures 101
Tier II Writing Course (HRT 404)

Integrative Studies in Social Science
(ISS 2XX & ISS 3XX)

Integrative Studies in Arts & Humanities
(IAH 'A', 201-210, & IAH 'B', 211- higher)

Integrative Studies in Biological & Physical Sciences
(Alternate Track)
CEM 141 (4) General Chemistry
CEM 161 (1) Chemistry Laboratory
CEM 143 (4) Organic Chemistry

PLB 105 (3) Plant Biology
PLB 106 (1) Plant Biology Laboratory

CANR Requirements:

College Algebra & Trigonometry or Algebra & Statistics
(MTH 116, or MTH 103 + MTH 114, or MTH 103 + STT 200/01)

Micro or Macro Economics (EC 201 or 202)

Dept. Requirements for all majors: 21 credits

CSS 210 (3) Introduction to Soil & Landscape Science
HRT 203 (3) Principles of Horticulture
HRT 204 (2) Plant Propagation
HRT 205 (1) Plant Mineral Nutrition
HRT 206 (1) Pruning Techniques
HRT 207 (1) Horticulture Career Development
HRT 361 (3) Applied Plant Physiology
HRT 362 (1) Applied Crop Improvement
HRT 404 (3) Horticulture Management (Tier II Writing)
HRT 493 (3) Internship

Requirements for all students in this concentration: 13 credits

CSS 360 (3) Soil Biology
ENT 479 (3) Organic Pest Management
HRT 251 (3) Organic Farming Principles and Practices
HRT 253 (1) Compost Production and Use
PLP 405 (3) Introduction to Plant Pathology

Production Courses: 9 credits

CSS 288 (3) Weed Science
HRT 221 (3) Greenhouse Structures and Management
HRT 242 (1) Passive Solar Greenhouses for Protected Cultivation
HRT 243 (1) Organic Transplant Production
HRT 332 (3) Tree Fruit Production
HRT 336 (2) Viticulture and Berry Production
HRT 341 (3) Vegetable Production & Management
HRT 475 (3) International Studies in Horticulture
HRT 490 (1-2) Independent Study

Science Courses: 9 credits

CSUS 343 (3) Community Food and Agricultural Systems
HRT 401 (3) Advanced Horticultural Crop Physiology
HRT 403 (3) Handling and Storage of Horticultural Crops
HRT 407 (3) Horticulture Marketing
HRT 451 (3) Biotechnology Applications for Plant Breeding and Genetics
HRT 486 (3) Biotechnology in Agriculture: Applications and Ethical Issues