



# Horticultural Science Concentration Program of Study

The Horticultural Science Concentration in the Department of Horticulture prepares students for careers in nursery, greenhouse, fruit and vegetable production, marketing and management. This option is also excellent for students interested in biotechnology, plant breeding and genetics and graduate studies in plant sciences.

## 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

## Requirements for all students in this concentration: 12 credits

PLP 405 (3) Introduction to Plant Pathology  
CSS 350 (3) Introduction to Plant Genetics  
ENT 404 (3) Insects; Biodiversity  
HRT 221 (3) Greenhouse Structures & Management

## Science Courses: 9 credits

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

## 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 I  
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

## Production Courses: 12 credits

### Nine credits from:

HRT 310 (3) Nursery Management  
HRT 323 (3) Floriculture Production  
HRT 332 (3) Tree Fruit Production  
HRT 336 (2) Viticulture and Berry Production  
HRT 341 (3) Vegetable Production & Management

### Plus three credits from:

HRT 211 (3) Landscape Plants I  
HRT 212 (3) Landscape Plants II  
HRT 218 (3) Irrigation Systems for Horticulture  
HRT 242 (1) Passive Greenhouses for Protected Cultivation  
HRT 243 (1) Organic Transplant Production  
HRT 253 (1) Compost Production and Use  
HRT 475 (3) International Studies in Horticulture  
CSS 288 (3) Weed Science