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
 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
  (MTH 116, or MTH 103 + MTH 114)
- 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

**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

**Production Courses: 12 credits**
- **Nine credits from:**
  HRT 210 (3) Nursery Management
  HRT 323 (3) Floriculture Production
  HRT 332 (2) Tree Fruit Production
  HRT 335 (1) Berry Crop Production
  HRT 341 (3) Vegetable Production & Management
- **Plus three credits from:**
  HRT 211 (3) Landscape Plants I
  HRT 212 (3) Landscape Plants II
  HRT 242 (1) Passive Greenhouses for Protected Cultivation
  HRT 243 (1) Organic Transplant Production
  HRT 244 (1) Culinary & Medicinal Herbs
  HRT 475 (3) Study Abroad
  CSS 402 (3) Weed Science

**Science Courses: 9 credits**
- **One of the following:**
  HRT 401(3) Physiology and Management of Herbaceous Plants
  HRT 480 (3) Woody Plant Physiology
- **Plus six credits from:**
  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