

## Plant Science, Biotechnology and Horticulture Concentration

The Plant Science, Biotechnology and Horticulture Concentration is designed students desiring to pursue professions in biotechnology or commercial production of agronomic and horticultural crops. This concentration also prepares students for graduate studies in plant sciences. Careful selection of departmental courses and other electives in consultation with the assigned academic advisor will prepare graduates for the career of their choice. The concentration consists of two tracks of study: (1) emphasis in production horticulture and (2) emphasis in science and biotechnology.

### Requirements for the Bachelor of Science in Plant Sciences • Plant Sciences Major • Plant Science, Biotechnology and Horticulture Concentration

| <b>Freshman</b>   | Hours | Credit           |
|---|-------|------------------|
| Biology 111*, 112* . . . . .  | 8     | 8                |
| Chemistry 100 and 110*, or 120* and 130* . . . . .  | 8     | 8                |
| English 101*, 102* . . . . .  | 6     | 6                |
| Mathematics 151 *, 152* . . . . .   | 6     | 6                |
| Plant Sciences 110 . . . . .  | 2     | 2                |
| <br><b>Sophomore</b>  |       |                  |
| Agriculture and Natural Resources 290 . . . . .   | 3     | 3                |
| Agricultural Economics 212 . . . . .  | 3     | 3                |
| <sup>1</sup> Arts and Humanities Elective* . . . . .  | 3     | 3                |
| Communication Studies 210* or 240* . . . . .  | 3     | 3                |
| <sup>1</sup> Cultures and Civilizations Elective* . . . . .   | 3     | 3                |
| Environmental and Soil Sciences 210 . . . . .   | 4     | 4                |
| Economics 201* . . . . .  | 4     | 4                |
| Plant Sciences 210 . . . . .  | 2     | 2                |
| <sup>1</sup> Social Sciences Elective* . . . . .  | 3     | 3                |
| Technical Electives . . . . .   | 4     | 4                |
| <br><b>Junior</b>   |       |                  |
| Agricultural Economics 310 . . . . .  | 1     | 1                |
| Biochemistry & Molecular Biology 321 or Forestry 414 . . . . .  | 4     | 4                |
| <sup>1</sup> Cultures and Civilizations Elective* . . . . .   | 3     | 3                |
| English 360 for Production Horticulture Track; or Chemistry 350 for Science and Biotechnology Track . . . . .   | 3     | 3                |
| Environmental and Soil Sciences 334 . . . . .   | 3     | 3                |
| Plant Sciences 240, 241, 330, 335, 370, 410, 430, 434, or 435 . . . . .   | 8     | 8                |
| Plant Sciences 457-458 or 457-459 or Entomology and Plant Pathology 313, 321, or 410 . . . . .  | 6     | 6                |
| Technical Electives . . . . .   | 3     | 3                |
| <br><b>Senior</b>   |       |                  |
| <sup>1</sup> Arts and Humanities Elective* . . . . .  | 3     | 3                |
| Plant Sciences 240, 241, 335, 370, 410, 430, 434, or 435 for Production Horticulture Track; or Plant Sciences 353, 454 for Science and Biotechnology Track; . . . . . | 6     | 6                |
| Plant Sciences 470 . . . . .  | 3     | 3                |
| Plant Sciences 492 or 497 . . . . .   | 3     | 3                |
| Plant Sciences 331 and Technical Electives for Production Horticulture Track; or Plant Sciences 461 for Science and Biotechnology Track . . . . .                     | 3     | 3                |
| Technical Electives . . . . .   | 10    | 10               |
| Unrestricted Electives . . . . .  | 3     | 3                |
|   |       | <b>Total 124</b> |

\*Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education lists. Selection should be made in conference with academic advisor. One of the Arts and Humanities (AH) or Cultures and Civilizations (CC) Electives must be a writing-intensive (WC) course.

#### ADDITIONAL ELECTIVES LIST FOR PLANT SCIENCES MAJOR

##### PLANT SCIENCES, BIOTECHNOLOGY AND HORTICULTURE CONCENTRATION

###### Technical Electives

Agricultural Economics 212, 342, 350, 412; Accounting 201, 202; Biochemistry, Cellular and Molecular Biology 310, 330, 401, 402; Biology 240; Biosystems Engineering Technology 326; Ecology & Evolutionary Biology 304, 410, 414, 433; Biochemistry & Molecular Biology 404; Business Administration 201; Chemistry 350; Entomology & Plant Pathology 451; Environmental Soil Science 355, 442; Finance 301; Management 300; Marketing 300; Microbiology 210