

## PLANT SCIENCE, BIOTECHNOLOGY AND HORTICULTURE CONCENTRATION

The plant science, biotechnology and horticulture concentration is designed for 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 – emphasis in production horticulture and emphasis in science and biotechnology.

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

| <b>First Year</b>   | <b>Hours Credit</b> |
|---|---------------------|
| Biology 111*, 112* .....  | .8                  |
| Chemistry 100* and 110*, or 120* and 130* .....   | .8                  |
| English 101*, 102* .....  | .6                  |
| Mathematics 151*, 152* .....  | .6                  |
| Plant Sciences 115 .....  | .3                  |
| <b>Second Year</b>  |                     |
| Agriculture and Natural Resources 290 .....   | .3                  |
| Agricultural Economics 212 .....  | .3                  |
| <sup>1</sup> Arts and Humanities Elective* .....  | .3                  |
| Communication Studies 210* or 240* .....  | .3                  |
| <sup>1</sup> Cultures and Civilizations Elective* .....   | .3                  |
| Environmental and Soil Sciences 210 .....   | .4                  |
| Plant Sciences 210 .....  | .3                  |
| <sup>1,2</sup> Social Sciences Elective* .....  | .3-6                |
| <sup>2</sup> Economics Elective* .....  | .3-4                |
| Technical Electives .....   | .2-3                |
| <b>Third Year</b>   |                     |
| Biochemistry and Cellular and Molecular Biology 321 or Forestry 414 ..  | .4                  |
| <sup>1</sup> Cultures and Civilizations Elective* .....   | .3                  |
| English 360* for Production Horticulture Track or Chemistry 350 for<br>Science and Biotechnology Track .....  | .3                  |
| Select from Plant Sciences 235, 240, 241, 330, 370, 410, 430, 434, or 435 ..  | .9                  |
| Plant Sciences 457, 458 or 457, 459; Entomology and Plant<br>Pathology 313 or 321 or 410 .....  | .6                  |
| Technical Electives .....   | .3                  |
| Unrestricted Electives .....  | .0-2                |
| <b>Fourth Year</b>  |                     |
| <sup>1</sup> Arts and Humanities Elective* .....  | .3                  |
| Select from Plant Sciences 235, 240, 241, 370, 410, 430, 434, or<br>435 for Production Horticulture Track; or Plant Sciences 353<br>and 454 for Science and Biotechnology Track ..... | .6                  |
| Plant Sciences 470 .....  | .3                  |
| Plant Sciences 492 or 497 .....   | .3                  |
| Plant Sciences 331 and Technical Electives for Production<br>Horticulture Track, or Plant Sciences 461 for Science and<br>Biotechnology Track .....                                   | .3                  |
| Technical Electives .....   | .10                 |
| Unrestricted Electives .....  | .3-4                |
| <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.

<sup>2</sup> Economics 201 (4) satisfies the University General Education-Social Science requirement and the major requirement for economics. If the student transfers ECON LD for 3 credit hours, it will satisfy the major requirement for economics but will not satisfy the University General Education-Social Science requirement. In these cases, the student should take two courses from the Social Sciences list.

NOTE: Students must meet the University General Education Requirement for Communicating through Writing by selecting a course with a (WC) designation. This course may be in the major or from another discipline.