HORTICULTURE UNDERGRADUATE MAJOR (BS, HBS)

Also available via Ecampus.

Major Code: 145

Grade Requirements for Horticulture Major

Students pursuing a major in horticulture are required to receive a grade of C– or better in all HORT (horticulture) and PBG (plant breeding and genetics) courses that are required for completion of their major and option. If a grade below C– is received in a HORT or PBG course required for their major and option a student will need to re-take the course and receive a grade of C– or better. If the grade below a C– was received for a course that is part of a group of courses where the student can select which courses to take (i.e., they do not need to take all of the courses, just a specified number of courses or credits) then it would be acceptable for the student to substitute a course for the one that they had received a grade below a C–. For example, in most of our options, a student needs to complete three of four plant identification courses. If a student received a grade lower than a C– in one of the classes, they could either re-take the same course or complete the other three courses with a grade of C– or better.

Grade Requirements for Horticulture Major – Plant Breeding and Genetics Option

Students pursuing an option in Plant Breeding and Genetics, under the Horticulture Major, and under the Crop and Soil Science Major, are required to receive a grade of C– or better in all BOT, CROP, CSS, FOR, HORT, MB, PBG, SOIL and ST courses required within their major and option.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Baccalaureate Core</td>
<td>Select 48 credits and complete an option and its corresponding core to complete the major, which requires a minimum of 180 credits</td>
<td>48</td>
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Major Core

General Science

Select one of the following groups: 12

Group A: Principles of Biology

- BI 211 *PRINCIPLES OF BIOLOGY (required for Horticultural Research option) 3
- BI 212 *PRINCIPLES OF BIOLOGY (required for Horticultural Research option) 3
- BI 213 *PRINCIPLES OF BIOLOGY (required for Horticultural Research option) 3

Group B: Introductory Biology

- BI 204 *INTRODUCTORY BIOLOGY I 3
- BI 205 *INTRODUCTORY BIOLOGY II 3
- BI 206 *INTRODUCTORY BIOLOGY III 3

Select one of the following: 5

- CH 121 GENERAL CHEMISTRY 3
- CH 231 GENERAL CHEMISTRY 3 & CH 261 and *LABORATORY FOR CHEMISTRY 231 3

Select one of the following: 5

- CH 123 *GENERAL CHEMISTRY 3
- CH 233 GENERAL CHEMISTRY 3 & CH 263 and *LABORATORY FOR CHEMISTRY 233 3
- MTH 111 *COLLEGE ALGEBRA 3

Select one of the following: 4

- MTH 112 *ELEMENTARY FUNCTIONS 3
- MTH 241 *CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCE 3
- MTH 245 *MATHEMATICS FOR MANAGEMENT, LIFE, AND SOCIAL SCIENCES 3
- MTH 251 *DIFFERENTIAL CALCULUS (required for Horticultural Research option) 3
- ST 351 INTRODUCTION TO STATISTICAL METHODS (Plant Breeding and Genetics option already requires ST 351 —students in that option will need to choose from one of the above selection of math courses to fulfill this requirement.) 3

Agricultural Science

- BOT 331 PLANT PHYSIOLOGY 4
- BOT 350 INTRODUCTORY PLANT PATHOLOGY 4
- CROP 440 WEED MANAGEMENT 4
- ENT 311 INTRODUCTION TO INSECT PEST MANAGEMENT 4

Select one of the following: 4

- SOIL 205 & SOIL 206 SOIL SCIENCE 4
- CSS 205 *SOIL SCIENCE 4

Orientation

Select one of the following: 1-2

- HORT 112 INTRODUCTION TO HORTICULTURAL SYSTEMS, PRACTICES AND CAREERS 3
- CROP 101/ENT 101/SOIL 101 INTRODUCTION TO CROP, SOIL, AND INSECT SCIENCE (For Plant Breeding & Genetics option only) 3

Horticultural Science

- HORT 301 GROWTH AND DEVELOPMENT OF HORTICULTURAL CROPS 3
- HORT 311 PLANT PROPAGATION 4
- HORT 316 PLANT NUTRITION 4

Experiential Learning

Select one of the following: 6-12

- HORT 403 THESIS (required for Horticultural Research option) 3
- HORT 410 INTERNSHIP 3
- HORT 412 CAREER EXPLORATION: INTERNSHIPS AND RESEARCH PROJECTS 3

Total credits required for graduation: 180

1 - Horticultural Research option requires the CH 231/CH 261, CH 232/CH 262, CH 233/CH 263 chemistry series.
2 - Plant Breeding and Genetics option requires PBG 403 or PBG 410 and CSS majors only need to complete 3 credits minimum

* Baccalaureate Core Course (BCC)

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