

PLANT & SOIL SYSTEMS

HORTICULTURAL SCIENCES

In the Horticultural Sciences you will learn the latest approaches in plant propagation, cultivation, nutrition, plant protection, and processing of ornamentals, fruits, and vegetables. You will also have the opportunity to complete internships and/or undergraduate research focusing on areas such as breeding or organic/sustainable and conventional production and management. Students in this major receive a broad education across horticultural crops that prepare them for a variety of career paths.

Career Possibilities: horticulturist, county extension agent, landscape manager, nursery or greenhouse manager, horticultural consultant, agrichemical companies, and graduate or professional school.

SEMESTER 1

CRITICAL: ENGL 1001, MATH 1021.

ENGL 1001 English Composition (3)
BIOL 1001 General Biology (3) or
BIOL 1201 Biology for Science Majors I (3)
MATH 1021 College Algebra (3)
CHEM 1001 Chemical Fundamentals (3) or
CHEM 1201 General Chemistry I (3)
General Education course - Arts (3)

Total Semester Hours: 15

SEMESTER 3

CRITICAL: HORT 2050; CHEM 1001/CHEM 1201.

AGRO 2051 Soil Science (4)
AGEC 2003 Introduction to Agricultural Economics (3) or
ECON 2030 Economic Principles (3)
HORT 2050 General Horticulture (3)
HORT 2070 Horticulture Lab (1)
General Education course - Humanities (3)

Total Semester Hours: 14

SEMESTER 5

CRITICAL: ENGL 2000.

PLHL 4000 General Plant Pathology (4)
HORT 2086 Introduction to Turfgrass Management (3)
HORT 2860 Growth and Development of Agricultural Crops (3) or
PLHL 3060 Introductory Plant Physiology (4)
HORT 3000 Horticultural Internship (3) or
HORT 3010 Research Problems (3)
Approved Electives (3-2) ¹

Total Semester Hours: 16

SEMESTER 7

AGRO 4052 Soil Fertility and Soil Management (4)
HORT 4083 Principles and Practices in Olericulture (4)
HORT 4071 Nursery Management (3)
Approved Electives (5-3) ¹

Total Semester Hours: 16-14

SEMESTER 2

CRITICAL: BIOL 1001/BIOL 1201; MATH 1022/EXST 2201

BIOL 1002 General Biology (3) or
BIOL 1202 Biology for Science Majors II (3)
BIOL 1005 Introductory Biology Laboratory (2) or
BIOL 1208 Biology Laboratory for Science Majors I (1)
CHEM 1002 Chemistry of Life and the Environment (3) or
CHEM 1202 General Chemistry (3)
MATH 1022 Plane Trigonometry (3) or
EXST 2201 Introduction to Statistical Analysis (4)
General Education course - Humanities (3)

Total Semester Hours: 13-15

SEMESTER 4

CRITICAL: AGRO 2051.

CMST 2060 Public Speaking (3)
ENGL 2000 English Composition (3)
ENTM 2001 Insects in the Environment (3)
HORT 3122 Herbaceous Plant Materials (3)
General Education course - Social Sciences (3)

Total Semester Hours: 15

SEMESTER 6

HORT 2061 Plant Propagation (3)
HORT 2120 Woody Plant Materials I (3)
HORT 4020 Greenhouse Management and Controlled
Environment Agriculture (4)
HORT 4040 International Horticulture (3)
Approved Electives (3) ¹

Total Semester Hours: 16

SEMESTER 8

AGRO 4070 Weed Science and the Environment (3)
HORT 4099 Horticulture Capstone (2)
HORT 4085 Principles and Practices in Fruit and Nut Production (4)
Approved Electives (6) ¹

Total Semester Hours: 15

120 TOTAL SEMESTER HOURS

¹ - A list of approved electives is available in the School of Plant, Environmental & Soil Sciences.