

PLANT & SOIL SYSTEMS

CROP SCIENCE

Crop Science focuses on the study of food and fiber production with emphasis on crop physiology, crop pests, genetics, soil science, economics and experimental statistics. The concentration provides a good background of basic sciences for students who wish to pursue graduate studies. Students in this major receive a broad education that prepares them for a variety of career paths.

Career Possibilities: crop scientist, consultant, extension and state regulatory agencies, farm manager, landscape manager, nursery manager, plant breeder, soil scientist, public health, graduate or professional school.

SEMESTER 1

CRITICAL: ENGL 1001, MATH 1021.

ENGL 1001 English Composition (3)
BIOL 1201 Biology for Science Majors I (3)
General Education course - Arts (3)
MATH 1021 College Algebra (3)
CHEM 1201 General Chemistry I (3)
BIOL 1208 Biology Laboratory for Science Majors I (1)

Total Semester Hours: 16

SEMESTER 2

CRITICAL: CHEM 1201.

BIOL 1202 Biology for Science Majors II (3)
BIOL 1209 Biology Laboratory for Science Majors II (1)
CHEM 1202 General Chemistry (3)
CHEM 1212 General Chemistry Laboratory (2)
AGRO 1001 Plants and People (3)
General Education course - Humanities (3)

Total Semester Hours: 15

SEMESTER 3

CRITICAL: BIOL 1201; CHEM 1202.

AGRO 2051 Soil Science (4)
AGEC 2003 Introduction to Agricultural Economics (3) or
ECON 2030 Economic Principles (3)
BIOL 1011 Microorganisms and Man (3) or
BIOL 2051 General Microbiology (4)
CHEM 2060 Survey of Organic Chemistry (3) or
CHEM 2261 Organic Chemistry (3)
General Education course - Humanities (3)

Total Semester Hours: 16-17

SEMESTER 4

CRITICAL: AGRO 2051; BIOL 1202.

CMST 2060 Public Speaking (3)
BIOL 2083 The Elements of Biochemistry (3)
ENGL 2000 English Composition (3)
AGRO 3040 Soil Conservation (2)
AGRO 3010 Research Problems (3) or
AGRO 3090 Agronomic Internship (3)
EXST 2201 Introduction to Statistical Analysis (4)

Total Semester Hours: 18

SEMESTER 5

CRITICAL: CHEM 2261.

BIOL 3060 Introductory Plant Physiology (4) or
PLHL 3060 Introductory Plant Physiology (4) or
HORT 2860 Growth and Development of Agricultural Crops (3)
PLHL 4000 General Plant Pathology (4)
ENTM 4006 Fundamentals of Applied Entomology (3)
ANSC 2072 Introductory Agricultural Genetics (3) or
BIOL 2153 Principles of Genetics (4)

Total Semester Hours: 14

SEMESTER 6

PLHL 4001 Plant Disease Management and Control (3)
Approved Electives (8-7)¹
General Education course - Social Sciences (3)

Total Semester Hours: 14-13

SEMESTER 7

AGRO 4052 Soil Fertility and Soil Management (4)
AGRO 4070 Weed Science and the Environment (3)
Approved Electives (6)¹

Total Semester Hours: 13

SEMESTER 8

AGRO 4078 Land Use Planning and Land Management (3)
HORT 3503 Sustainable Horticulture (3)
Approved Electives (8)¹

Total Semester Hours: 14

120 TOTAL SEMESTER HOURS

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