

PLANT & SOIL SYSTEMS

SOIL SCIENCE

Learn about the properties of soil and its importance in agricultural production and environmental sustainability. Study the science behind soil health as you learn about physical, chemical, and biological factors that affect crop production, soil fertility, air and water quality, soil conservation, and the management of weeds, insects, fungi, and other crop pests. Students in this major receive a broad education that prepares them for a variety of career paths.

Career Possibilities: soil conservationist, soil scientist, agronomist, county agricultural agent, crop consultant, crop 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)
General Education course - Social Sciences (3)
CHEM 1201 General Chemistry I (3)

Total Semester Hours: 18

SEMESTER 2

CRITICAL: CHEM 1201; MATH 1022.

BIOL 1202 Biology for Science Majors II (3)
BIOL 1208 Biology Laboratory for Science Majors I (1)
CHEM 1202 General Chemistry (3)
CHEM 1212 General Chemistry Laboratory (2)
MATH 1022 Plane Trigonometry (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)
BIOL 1209 Biology Laboratory for Science Majors II (1)
General Education course - Humanities (3)

Total Semester Hours: 17-18

SEMESTER 4

CRITICAL: AGRO 2051; BIOL 1202.

CMST 2060 Public Speaking (3)
CHEM 2001 Analytical Chemistry (3)
ENGL 2000 English Composition (3)
GEOL 1001 General Geology: Physical (3)
EXST 2201 Introduction to Statistical Analysis (4)

Total Semester Hours: 16

SEMESTER 5

CRITICAL: CHEM 2060/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)
CHEM 2002 Analytical Chemistry Laboratory (1)
GEOL 1601 Physical Geology Laboratory (1)
PHYS 2001 General Physics I (3)
PLHL 4000 General Plant Pathology (4)

Total Semester Hours: 12-13

SEMESTER 6

AGRO 3010 Research Problems (3) or
AGRO 3090 Agronomic Internship (3)
AGRO 4055 Chemical Properties of Soil (4)
Approved Electives (5)¹

Total Semester Hours: 12

SEMESTER 7

AGRO 4052 Soil Fertility and Soil Management (4)
AGRO 4078 Land Use Planning and Land Management (3)
Approved Electives (6)¹

Total Semester Hours: 13

SEMESTER 8

AGRO 4056 Microbial Ecology and Nutrient Cycling in Soils (4)
AGRO 4058 Soil Morphology and Classification (4)
Approved Electives (9-7)¹

Total Semester Hours: 17-15

120 TOTAL SEMESTER HOURS

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