

Plant & Soil Science Concentration

Crop & Soil Management Option

Career Opportunities

Food and fiber production for a growing world population on a decreasing land base is one of the greatest challenges facing the American people. They are looking to agriculture to supply food and fiber for the future. The plant and soil science curriculum (crop and soil management option) is designed to help students prepare themselves for careers in food and fiber production – in practical aspects as well as biotechnology aspects.

The plant and soil science curriculum (crop and soil management option) leads to a Bachelor of Science degree in Agriculture with a concentration in Plant and Soil Science. Students graduating from this program also have the option of further education at the graduate level. Students are required to complete 25 hours of plant and soil science courses plus the basic core curriculum. The program also includes a number of elective courses and several additional courses in agriculture. This enables students in plant and soil science who may also have a strong interest in animal science or agricultural business to concentrate their electives in these areas. Course requirements during the first two years are very similar to those of other universities, allowing easy transfer of credits.

Employment Possibilities

As the world population continues to increase, demand for food and fiber will also increase. With this demand will come the need for more people to support the farmer. Less than 10% of our graduates return to the farm; most serve the farmer through supportive areas. Career opportunities available in addition to farming include various federal and state agencies such as The U.S. Department of Agriculture, Agricultural Extension Service, and Natural Resource Conservation Service; various industries associated with agriculture and the environment, including feed, seed, fertilizer, chemical, agricultural supplies and equipment companies; agricultural communications and public relations; lending agencies; environmental consultants; conservation and recreation. Students completing this curriculum will have met the academic requirements for the Certified Crop Advisor program (CCA). The recent emergence of biotechnology has opened several additional careers in plant and soil science research. Graduates of this curriculum area are also well prepared for further studies in plant and soil science at the graduate level.

Facilities

Modern classrooms and laboratory facilities, including the Ned R. McWherter Agricultural Complex, are used for instructional purposes. The UT Martin Agricultural and Natural Resources Field Teaching/Demonstration Complex are jointly used for research, teaching, and demonstration. In addition to the use of these facilities, field trips to leading agricultural businesses, farms and resource-management areas such as parks and wildlife refuges are conducted. Thus, students have a first-hand opportunity to observe proper application of new concepts, technology and management principles in real-life situations. Numerous computer facilities are also available for student use.

The University of Tennessee at Martin
Department of Agriculture, Geosciences, and Natural Resources
Bachelor of Science in Agriculture
PLANT & SOIL SCIENCE CONCENTRATION
CROP & SOIL MANAGEMENT OPTION
(Major code 1121)

Program Description: www.utm.edu/majors

Agriculture Fine Arts – 3 hrs

Requirement

- Choose 1 course from ART 110; ARTH 210, 211; DANC 110; MUS 111,112; THEA 110, 111 (3 hrs)

Plant & Soil Science Biological & Physical System – 8 hrs

Requirement

- BIOL 110 (4 hrs)
- BIOL 120 (4 hrs)
- CHEM 111 (4 hrs)
- CHEM 112 (4 hrs)

University Wide Communication – 9 hrs

Students who place in ENGL 100, will use ENGL 110 instead of ENGL 111 in the ENGL sequence.

Requirement

- ENGL 111 (3 hrs) (Min C grade)
- ENGL 112 (3 hrs) (Min C grade)
- COMM 230 (3 hrs)

University Wide Humanities – 9 hrs

Requirement

- Choose 3 courses from ENGL 250, 251, 260, 261, 270, 271; FREN 250; GERM 250; HIST 121, 122, 201, 202; HONR 111; PHIL 110, 120, 130, 160; SPAN 250 (9 hrs)

Plant and Soil Science Mathematics – 6 hrs

Requirement

- MATH 210 (3 hrs)
- Choose one course from MATH 140, 160, 185, or 251 (3 hrs)

Plant & Soil Science Social & Behavior – 6 hrs

Requirement

- **AGRI 295 (3 hrs)**
- **NRM 101 (3 hrs)**

Ag Core – 18 hrs

Requirement

- **AGRI 390 (2 hrs)**
- **AGEC 110 (3 hrs)**
- **AGET 110 (3 hrs)**
- **ANSC 110 (3 hrs)**
- **PLSC 110 (3 hrs)**
- **SOIL 210 (4 hrs)**

Plant & Soil-Crop & Soil Management Option – 38 hrs

Requirement

- **AGET 220 (3 hrs)**
- **AGET 482 (3 hrs)**
- **AGRI 420 (3 hrs)**
- **AGRI 441 (3 hrs)**
- **PHYS 150 or 211 (4 hrs)**
- **PLSC 119 (1 hr)**
- **PLSC 322 (3 hrs)**
- **PLSC 333 (3 hrs)**
- **PLSC 431 (3 hrs)**
- **PLSC 433 (3 hrs)**
- **Choose 3 hours from SOIL 315, 430, 440**
- **SOIL 412 (3 hrs)**
- **ZOOL 325 (3 hrs)**

Plant & Soil-Crop & Soil Management Electives – 15 hrs

Requirement

- **English, Comm, Writing choose 3 hours from: ENGL 325; COMM 210, 323, 324, 430**
- **Choose 3 hours from BOT 421, 431; PLSC 442**
- **Complete PLSC 422 or PLSC 442 (if not taken above) (3 hrs)**
- **Choose 6 upper division hours from courses in the departments of Ag, NRM, Biological Sciences, Chemistry, Engineering, or Geography, Geology, or Physics**

As a general rule:

100 & 200 level courses are lower division courses and target freshman and sophomore years;

300 & 400 level courses are upper division courses and target junior and senior years;

However, this is variable and student should work closely with faculty advisor to meet individual needs