

Plant & Soil Science Concentration

Golf Course & Landscape Management Option

Career Opportunities

American culture is rapidly changing, as most Americans have more leisure time and increased discretionary spending than ever before. As consequence, more and more Americans are seeking lifelong recreational activities to fill their free time. These include such things as golf, camping, softball and other outdoor sports.

This has increased the demand for new and better facilities to accommodate these needs. If you consider just the golf industry, there are over 26 million golfers playing an estimated 20,000 golf courses throughout the country. A new or refurbished course opens each day and there is an average of 300 new course construction start-ups each year.

As a result, the turfgrass and landscape industries are rapidly expanding fields. There is over 50 million acres of turfgrass in the United States alone, representing one of the fastest growing segments of US agriculture. It brings to the American economy over \$40 billion annually. Home construction and sales are at all-time high and, with the emphasis on using more turfgrasses in road construction, for soil stabilization, in the landscape and on athletic fields and playgrounds, the demand for qualified turfgrass and landscape managers has never been greater.

Employment Possibilities

Today's turfgrass, golf course and landscape industry is greatly different from that of the past. Once a profession open to only the golf course superintendent, now jobs are available in many other sectors. A person with the formal turfgrass and landscape management training is likely to be found managing all types of facilities ranging from athletic fields, to those that own a lawn care/ landscape business, nursery and greenhouse operations management or owning/ operating a sod farm to those in many areas of academia. Government agencies, management companies as well as many in the private sector all provide excellent employment opportunities for those dedicated to turfgrass and landscape maintenance and culture.

Facilities

All facilities of the campus, including the library, student learning center, computer center and recreational complex are available for student use. This includes the nationally award-winning campus grounds. Classrooms and laboratories of the College of Agriculture and Natural Resources are modern and provide an effective learning environment. While in study, students will become familiar with numerous commercial enterprises through field trips, guest lecturers and various media presentations.

In addition to the regular teaching facilities, UT Martin has a two acre turfgrass teaching facility equipped with a teaching lab and greenhouses, turfgrass plots, a 4,500 square foot golf green and an ornamental plant materials nursery. Also, UT Martin has available a 700-acre Agricultural and Natural Resources Field Teaching/Demonstration Complex used for research, teaching, and demonstration.

Sample Program of Study

This list includes all courses required; however, the sequence may be flexible.

Freshman Year

Fall

Agricultural Economics 110: Introduction to Agricultural Business.....	3
Biology 110: Introductory Cell Biology and Genetics.....	4
English 111: English Composition.....	3
Math 140: College Algebra and Elementary Functions.....	3
Plant Science 110: Introductory Plant and Soil Science	3
Plant Science 119: Introductory Plant and Soil Science Laboratory.....	1

Total Hours.....17

Spring

Agricultural Engineering Technology 110: Introduction to Agricultural Engineering	3
Animal Science 110: Introduction to Animal Science.....	3
Biology 120: Introductory Plant and Animal Biology	4
English 112: English Composition.....	3
Math 210: Elementary Statistics and Probability	3

Total Hours.....16

Sophomore Year

Fall

Agriculture 295: International Food and Fiber Systems (Social & Behavioral Sciences Elective).....	3
Agricultural Engineering Technology 220: Surveying and Soil and Water Engineering.....	3
Chemistry 111: Introduction to Chemistry I: General and Organic.....	4
Zoology 325: Economic Ecology.....	3
Humanities Elective*	3

Total Hours.....16

Spring

Chemistry 112: Introduction to Chemistry II: General and Organic	4
Communications 230: Public Speaking	3
Plant Science 242: Fundamentals of Horticultural Sciences.....	3
Soil Science 210: Introduction to Soil Science	4

Total Hours.....14

* See catalog for options.

** Upper division classes in the Departments of Agriculture and Natural Resources; Biological Sciences; Chemistry; Engineering; or Geology, Geography and Physics.

Junior Year

Fall

Plant Science 234: Lawn and Turf Management.....	3
Plant Science 333: Weed Science	3
Plant Science 363: Plant Identification and Propagation (taught in Fall of odd years only).....	3
Soil Science 315, 430, or 440: Soil and Water Conservation, Wetland Science, or Soil Physics.....	3
Humanities Elective*	3

Total Hours.....15

Spring

Natural Resources Management 101: Wildlife, Conservation, and Environmental Issues (Social & Behavioral Sciences Elective).....	3
Plant Science 322: Introductory Plant Pathology.....	3
Fine Arts Elective*	3
Humanities Elective*	3

Total Hours.....12

Senior Year

Summer

Agriculture 420: Supervised Field Experience	3
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Fall

Agriculture 390: Career Planning in Agriculture.....	2
Agriculture 441: Agricultural Statistics.....	3
Plant Science 321: Landscape Management.....	3
Plant Science 431: Principles of Plant Breeding.....	3
UD Science Elective**	4

Total Hours.....15

Spring

Botany 421, 431 or Plant Science 442: Plant Function and Development, Plant Ecology or Crop Adaptation and Ecology	3
Plant Science 471: Golf Course Management.....	3
Soil Science 412: Soil Chemistry and Fertility.....	3
Writing/Speaking Elective *	3

Total Hours.....1

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