
The University of Tennessee at Martin
Agricultural Science Concentration, 2004-2005

Career Opportunities

Modern agriculture is a tremendously diverse industry. Career opportunities range from manufacturing and distributing resource inputs (i.e., seed, fertilizer, capital) to production (farming), marketing, processing (converting raw agricultural commodities into usable products) and merchandising (distributing food and other goods to consumers). This program of study provides a broad general education that includes courses from several subject matter disciplines in agriculture. More than 25 percent of the courses may be selected by students to give in-depth preparation in areas especially intriguing to them. This combination provides a good general education and a broad overview of the agricultural industry, while allowing specialization according to individual interests.

Employment Possibilities

Graduates of this curriculum may, depending upon elective courses completed, begin career employment in many aspects of the industry:

- Resource marketing and distribution-seed, fertilizer, pesticide, pharmaceutical, equipment and feed companies; farm supply cooperatives
- Agricultural service occupations-representatives for banks, insurance companies, Agricultural Extension Service, conservation agencies, farm credit agencies, production management consulting firms, communications and information firms and government agencies
- Farm, ranch and feedlot management
- Commodity processing-meat packing, fruit and vegetable processing, feed manufacturing, milling industries, inspection and quality-control services
- Grounds maintenance occupations-greenhouse and nursery operations, pest-management consulting firms, pest-control businesses, lawn-care firms, landscaping firms
- Merchandising of food and agricultural products-chain and independent grocery firms, garden-supply outlets

Facilities

A nearby 700 acre UT Agricultural Experiment Station and UTM Agricultural Field Teaching/ Demonstration Complex are jointly used for research, teaching, and demonstration. Modern agricultural laboratories and classrooms are located in Brehm Hall and the West Tennessee Agricultural Pavilion. The student is taught to use the computer, and numerous computer facilities are available for the student's convenience. In some cases, field trips are made to nearby industries and farms to learn their operating procedures.

For More Information

Please Contact: Dr. Jerry Gresham, Chair
 Department of Agriculture and Natural Resources
 257 Brehm Hall
 Martin, TN 38238
 Phone: (731) 881-7262; E-mail: jgresham@utm.edu

Program of Study, Non-Licensure Option

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

Freshman Year

Fall

Biology 110: Introductory Cell Biology and Genetics . . .	4
English 111: English Composition	3
Math 140: College Algebra and Elementary Functions	3
Animal Science 110: Introduction to Animal Science . .	3
<u>Aesthetics Elective*</u>	<u>3</u>
Total Hours	16

Spring

Biology 120: Introductory Plant and Animal Biology . .	4
English 112: English Composition	3
Math 160: Calculus for Business and Life Sciences . .	3
Plant Science 110: Introductory Plant and Soil Science	3
Agricultural Engineering Technology 110: Introduction to	
<u>Agricultural Technology</u>	<u>3</u>
Total Hours	16

Sophomore Year

Fall

Agricultural Engineering Technology 220: Surveying and	
Soil and Water Engineering	3
Chemistry 121: General Chemistry	4
Animal Science 240: Live Animal Carcass Selection and	
Evaluation	3
Soil Science 210: Introduction to Soil Science	4
<u>Economics 202: Principles of Microeconomics</u>	<u>3</u>
Total Hours	17

Spring

Chemistry 122: General Chemistry	4
Communications 230: Public Speaking	3
Computer Science 201: Introduction of Computer	
Applications	3
Philosophy 160: Introduction to Ethics	3
Math 160 or 210: Calculus for Business and Life	
Sciences or Elementary Statistics and Probability . . .	3
<u>Social Dynamics Elective*</u>	<u>3</u>
Total Hours	19

Junior Year

Fall

Microbiology 251 or 310: General Bacteriology or	
General Molecular Biology	4
Agricultural Engineering Technology 350: Agricultural	
Power and Machinery Management	3
English or Communications Speaking or Writing	
Elective*	3
<u>Global Dynamics*</u>	<u>3</u>
Total Hours	13

Spring

Animal Science 340 or 350: Basic Animal Nutrition or	
Applied Animal Nutrition	3
Agriculture 390: Career Planning in Agriculture	2
Animal Science 360 or Plant Science 431: Breeding and	
Improvement of Farm Animals and Poultry or Principles	
of Plant Breeding	3
<u>Agriculture/ Natural Resource Management Electives*</u>	<u>8</u>
Total Hours	16

Senior Year

Fall

Plant Science 431: Field Crop Production	3
Zoology 325: Economic Entomology	3
Chemistry 310: Chemistry	3
<u>Upper Division Soil Elective*</u>	<u>3</u>
Total Hours	12

Spring

Agricultural Economics 325: Agriculture and Natural	
Resource Policy	3
Agricultural Economics 471: Agricultural Management	
<u>Agriculture/ Natural Resource Management Electives*</u>	<u>9</u>
Total Hours	15

*See catalog for options.