

---

## The University of Tennessee at Martin

### Agricultural Science Concentration, Production Option 2005-2006

---

#### 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 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](mailto:jgresham@utm.edu)

## Program of Study: Agriculture Science Concentration Production Option, 2005-2006

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

### Freshman Year

#### Fall

Agricultural Economics 110: Introduction to Agricultural Business . . . . .	3
Animal Science 110: Introduction to Animal Science . . . . .	3
Animal Science 119: Introduction to Animal Science Laboratory . . . . .	1
Biology 110: Introductory Cell Biology and Genetics . . . . .	4
English 111: English Composition . . . . .	3
<u>Math 140: College Algebra and Elementary Functions</u> . . . . .	<u>3</u>
<b>Total Hours</b> . . . . .	<b>17</b>

#### Spring

Agricultural Engineering Technology 110: Introduction to Agricultural Engineering . . . . .	3
Biology 120: Introductory Plant and Animal Biology . . . . .	4
English 112: English Composition . . . . .	3
Plant Science 110: Introductory Plant and Soil Science . . . . .	3
Plant Science 119: Introductory Plant and Soil Science Laboratory . . . . .	1
Natural Resources Management 101: Wildlife Conservation, and Environmental Issues (Global <u>Dynamics Elective</u> ) . . . . .	<u>3</u>
<b>Total Hours</b> . . . . .	<b>17</b>

### Sophomore Year

#### Fall

Agricultural Engineering Technology 220: Surveying and Soil and Water Engineering . . . . .	3
Chemistry 121: General Chemistry . . . . .	4
Soil Science 210: Introduction to Soil Science . . . . .	4
<u>Social Dynamics Elective*</u> . . . . .	<u>3</u>
<b>Total Hours</b> . . . . .	<b>14</b>

#### Spring

Chemistry 122: General Chemistry . . . . .	4
Communications 230: Public Speaking . . . . .	3
Math 210: Elementary Statistics and Probability . . . . .	3
Aesthetics Elective* . . . . .	3
<u>Social Dynamics Elective*</u> . . . . .	<u>3</u>
<b>Total Hours</b> . . . . .	<b>16</b>

### Junior Year

#### Fall

Agriculture 295: International Food and Fiber Systems (Global Dynamics Elective) . . . . .	3
Agriculture 390: Careers in Agriculture . . . . .	2
Chemistry 310: Chemistry . . . . .	3
Plant Science 333: Weed Science . . . . .	3
<u>Animal, Plant, or Soil Science Elective*</u> . . . . .	<u>3</u>
<b>Total Hours</b> . . . . .	<b>14</b>

#### Spring

Animal Science 350: Applied Animal Nutrition . . . . .	3
Animal Science 360: Breeding and Improvement of Farm Animals and Poultry or Plant Science 431: Principles of Plant Breeding . . . . .	3
Plant Science 322: Introductory Plant Pathology . . . . .	3
Agriculture/Natural Resources Elective* . . . . .	3
<u>Animal, Plant, or Soil Science Elective*</u> . . . . .	<u>3</u>
<b>Total Hours</b> . . . . .	<b>15</b>

### Senior Year

#### Fall

Agriculture 420: Supervised Field Experience . . . . .	3
Agriculture/Natural Resources Elective* . . . . .	3
Animal, Plant, or Soil Science Elective* . . . . .	3
Economics Elective* . . . . .	3
<u>Global Dynamics Elective*</u> . . . . .	<u>3</u>
<b>Total Hours</b> . . . . .	<b>15</b>

#### Spring

Agricultural Engineering Technology 482: Precision Technologies for Agriculture and Natural Resource Management . . . . .	3
Agriculture 441: Interpretation of Agricultural Research . . . . .	3
Zoology 325: Economic Entomology . . . . .	3
<u>Agriculture/Natural Resources Elective*</u> . . . . .	<u>3</u>
<b>Total Hours</b> . . . . .	<b>12</b>

\*See catalog for options.