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## The University of Tennessee at Martin

### Animal Science Concentration, Production Management Option 2005-2006

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#### Career Opportunities

Many exciting and rewarding career opportunities await the animal science graduate in today's ever-changing society. While the animal husbandry field was once primarily confined to those with a vast amount of practical experience with farm animals, the needs of a modern animal industry have created many new careers for the traditional farm student and those urban students with a keen interest in animals.

The program leading to the bachelor of science in agriculture with a concentration in animal science is offered through the UT Martin College of Agriculture and Applied Sciences. The program combines basic science and technical courses related to the production and use of animal products with a sound background in humanities and social sciences. Through the wise use of elective courses, a student can focus on animal production and management or animal biotechnology. Of particular interest is the demand for women and minority students to fill positions of responsibility in the animal industry.

#### Employment Possibilities

A wide variety of professional careers are available to the animal scientist in vocations such as farm and livestock management, Agricultural Extension Service, livestock procurement, federal meat grading, federal and state livestock and meat inspection, and market news reporting. There are also careers in the business-related areas of animal production such as fertilizer, seed and animal health products sales, farm loan representatives and banking. Excellent opportunities are available for those with special training in agricultural communications, working on farm magazines and journals, as breed association field representatives with livestock associations and in public relations. For the student desiring to pursue an advanced degree, the bachelor's in agriculture with a concentration in animal science prepares individuals for further studies in agricultural economics, business administration, food technology, animal biotechnology, and other studies leading to careers in teaching and research.

#### Facilities

A nearby 700-acre UT Agricultural Experiment Station and UTM Agricultural Field Teaching/Demonstration Complex is available for research, teaching, and demonstration. Modern agricultural laboratories and class-rooms 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

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## Program of Study: Animal 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>
Total Hours . . . . .	17

#### Spring

Agricultural Engineering Technology 110: Introduction to Agricultural Engineering . . . . .	3
Biology 120: Introductory Plant and Animal Biology . . . . .	4
English 112: English Composition . . . . .	3
Math 160 or 210: Calculus for Business and Life Sciences or Elementary Statistics and Probability . . . . .	3
<u>Plant Science 110: Introductory Plant and Soil Science</u> . . . . .	<u>3</u>
Total Hours . . . . .	16

### Sophomore Year

#### Fall

Animal Science 240: Live Animal and Carcass Selection and Evaluation . . . . .	3
Animal Science 330: Basic Meat Science . . . . .	3
Chemistry 121: General Chemistry . . . . .	4
Agri/ NRM Elective** . . . . .	3
<u>Social Dynamics Elective*</u> . . . . .	<u>3</u>
Total Hours . . . . .	16

#### Spring

Animal Science 360: Breeding and Improvement of Farm Animals and Poultry . . . . .	3
Chemistry 122: General Chemistry . . . . .	4
Communications 230: Public Speaking . . . . .	3
Soil Science 210: Introduction to Soil Science . . . . .	4
<u>Global Dynamics Elective*</u> . . . . .	<u>3</u>
Total Hours . . . . .	17

### Junior Year

#### Fall

Animal Science 371: Anatomy and Physiology of Domestic Animals . . . . .	3
Chemistry 310- 319 or 341: Chemistry, Organic and Biochemistry Laboratory or Organic Chemistry . . . . .	4
Global Dynamics Elective* . . . . .	3
<u>General Elective*</u> . . . . .	<u>3</u>
Total Hours . . . . .	14

#### Spring

Agriculture 390: Career Planning in Agriculture . . . . .	2
Animal Science 350: Applied Animal Nutrition . . . . .	4
Animal Science 372: Applied Animal Reproduction . . . . .	3
Microbiology 251 or 310: General Bacteriology or General Molecular Microbiology . . . . .	4
<u>Agri/NRM Elective**</u> . . . . .	<u>3</u>
Total Hours . . . . .	15

### Senior Year

#### Fall

Animal Production Elective* . . . . .	3
Upper Division Plant and Soil Science Electives* . . . . .	3
Social Dynamics Elective* . . . . .	3
<u>General Electives*</u> . . . . .	<u>4</u>
Total Hours . . . . .	13

#### Spring

Aesthetics Elective* . . . . .	3
Animal Production Elective* . . . . .	3
Global Dynamics Elective* . . . . .	3
<u>Writing /Speaking Elective*</u> . . . . .	<u>3</u>
Total Hours . . . . .	12

\*See catalog for options.

\*\* Excluding ANSC courses, Special Problem or Research Participation courses.