

# Veterinary Medicine

## Pre-Professional Program

### Career Opportunities

Veterinary medicine is a versatile and vital profession with appeal for those interested in both animals and medicine. New horizons are constantly appearing. The increasing human population requires more and more food-producing animals which must be maintained disease free. Our increased interest in ecology finds veterinary medicine also uniquely qualified to serve other animals in man's environment, including zoo animals, pets and wild animals.

Veterinary medicine plays a vital role in research. More than 100 infectious diseases are transmissible between animals and man, while more than 250 diseases and abnormalities of man have counterparts in animals, including man's greatest killers - - cancer, heart disease and the infirmities of old age.

While approximately two-thirds of America's veterinarians are in private, general practice, the remaining one-third are involved in a wide variety of careers essential to the support of human health and welfare. These supporting roles are increasingly attractive to students interested in the veterinary medicine profession. Women are entering the profession in increasing numbers, and many opportunities are available for minority students interested in useful and rewarding career.

The College of Agriculture and Applied Sciences offers a three-year program which is basic to the degree of Veterinary Medicine (DVM); after completion of this program, students may apply for admission to The University of Tennessee College of Veterinary Medicine at Knoxville or other professional schools of veterinary medicine.

### Courses Offered

The curriculum is designed to qualify students for admission to the College of Veterinary Medicine at UT Knoxville or veterinary college of their choice, subject to their residency requirements. Students who wish to enroll in the College of Veterinary Medicine at UT Knoxville or other veterinary college must:

- Complete the curriculum described in this leaflet.
- Successfully complete the Veterinary College Admission Test (VCAT).
- Successfully complete an interview with the veterinary college of their choice.

Students may complete their pre-professional requirements in one of the following ways:

- Complete (as a minimum) courses on the other side of this leaflet (3 years).
- Complete the courses in this leaflet and additional courses to satisfy a B.S. degree in agriculture (animal science). This requires a total of four years.
- Complete the courses in this leaflet; enroll in the College of Veterinary Medicine at UT Knoxville; and complete the fourth year of a B.S. degree in agriculture (animal science) at UT Martin while completing the first year of the veterinary medicine program at UT Knoxville. This way the first year at Knoxville counts toward two degree programs - - B.S. at UT Martin and DVM at UT Knoxville.
- Complete the courses in this leaflet and additional courses to satisfy a B.S. degree in natural resources management (wildlife biology). This requires a total of four years.

### Facilities

A nearby 700-acre UTM Agricultural and Natural Resources Field Teaching/Demonstration Complex is available for research, teaching, and demonstration. Modern agricultural laboratories and classrooms are located in Brehm Hall and the Ned R. McWherter Agricultural Complex. 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.

# Sample Program of Study: 3-year Option

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

## Fall

Animal Science 110: Introduction to Animal Science .....	3
Animal Science 119: Introduction to Animal Science Laboratory .....	1
Biology 130: Principles of Biology I .....	4
Chemistry 121: General Chemistry .....	4
English 111: English Composition .....	3
Math 140: College Algebra and Elementary Functions .....	3
<b>Total Hours .....</b>	<b>18</b>

## Spring

Agricultural Engineering Technology 110: Introduction to Agricultural Engineering .....	3
Biology 140: Principles of Biology II .....	4
Chemistry 122: General Chemistry .....	4
English 112: English Composition .....	3
Math 210: Elementary Statistics and Probability .....	3
<b>Total Hours .....</b>	<b>17</b>

## Second Year

### Fall

Agricultural Economics 110: Introduction to Agricultural Business .....	3
Chemistry 341: Organic Chemistry .....	4
Plant Science 110: Introductory Plant and Soil Science .....	3
Humanities Elective* .....	3
Social & Behavioral Sciences Elective* (Note 2) .....	3
<b>Total Hours .....</b>	<b>16</b>

### Spring

Chemistry 342: Organic Chemistry .....	4
Communications 230: Public Speaking .....	3
Soil Science 210: Introduction to Soil Science .....	4
Humanities Elective* .....	6
<b>Total Hours .....</b>	<b>17</b>

## Third Year

### Fall

Agriculture 441: Interpretation of Agricultural Research .....	3
Animal Science 350: Basic Animal Nutrition .....	3
Biochemistry 411: Cellular and Comparative Biochemistry .....	3
Biology 337 or 436: Cell Biology or Molecular Biology .....	3
Physics 211: College Physics .....	4
Fine Arts Elective* .....	3
<b>Total Hours .....</b>	<b>19</b>

### Spring

Agriculture 390: Career Planning Agriculture .....	2
Animal Science 360 or Biology 336: Breeding and Improvement of Farm Animals and Poultry or Introductory Genetics (Note 3) .....	3
Biochemistry 412: Cellular and Comparative Biochemistry .....	3
Physics 212: College Physics .....	4
Social & Behavioral Sciences Elective* .....	3
Writing/Communications Elective* .....	3
<b>Total Hours .....</b>	<b>18</b>

\*See catalog for options

**Note 1:** The following listed courses are suggested as electives to better prepare the student for the professional curricula of the colleges of veterinary medicine:

ANSC 119,230,260,320,330,350,371,372  
PLSC 422, 433  
MBIO 251,401  
ZOOL 440,461

**Note 2:** PHIL 430 suggested.

**Note 3:** Animal Science 360 required for Bachelor of Science degree in agriculture with an animal science concentration.

## For Additional Information Contact:

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