The University of Tennessee at Martin
Bachelor of Science in Agriculture (with a major in General Agriculture)
Animal Science Concentration
Veterinary Science Option (program 1128)

Overview
The University of Tennessee at Martin’s Department of Agriculture, Geosciences, and Natural Resources is offering an exceptional hands-on learning opportunity in the area of Veterinary Science.

Students should take as many math and science (biology and chemistry) classes as possible in high school to prepare for a career in veterinary medicine. Some high schools offer classes called “dual credit” or “AP”. Many of these will transfer in as college credits, but course offerings vary in different places. It would be best to discuss these options with high school guidance counselors.

Career Opportunities
The veterinary science option is designed for students who wish to receive a bachelor of science degree in animal science and meet the requirements for entrance into many professional schools, and specifically, The University of Tennessee College of Veterinary Medicine.

Facilities
UT Martin has a large 700-acre teaching farm with beef cattle, horses, goats, and swine, plus a fully functional companion animal (dog and cat) laboratory and teaching facility. The primary purposes of the farm are teaching, research, and demonstration. Students have numerous opportunities to work with the animals in classes and laboratories throughout their undergraduate education. The university also maintains an Animal Diagnostic and Disease laboratory, which is used to perform necropsies and diagnostics for producers in West Tennessee. There are four full time Doctors of Veterinary Medicine (DVM) on staff along with three full time licensed veterinary health technologists (LVHT). All of these resources are used to provide many hands-on learning opportunities for students.

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# B.S. in Agriculture – Animal Science – Veterinary Science Option (1128)
## Course Requirements for 2018-2019

### Fine Arts (3 hours) Select One
- ART 110 Understanding Visual Arts __/3
- ARTH 210 The History of Art __/3
- ARTH 211 The History of Art __/3
- DANC 110 Understanding Dance __/3
- MUS 111 Masterpieces of Music __/3
- MUS 112 Music in Our Time __/3
- MUS 113 Western Masterpieces __/3
- MUS 114 Historical Survey of Jazz __/3
- MUS 115 Music for the Masses __/3
- THEA 110 Understanding Theatre __/3
- THEA 111 Understanding Theatre __/3

**Biological & Physical Systems (16 hours)**
- BIOL 130 Foundations of Biology: Ecology & Diversity __/4
- BIOL 140 Foundations of Biology: Cell & Molecular __/4
- CHEM 121 General Chemistry __/4
- CHEM 122 General Chemistry __/4

**Communication (9 hours)**
- ENGL 111 English Composition (Must earn a C or better) __/3
- ENGL 112 English Composition (Must earn a C or better) __/3
- COMM 230 Public Speaking __/3

**Humanities (9 hours) Select three**
- ENGL 250-British Literature; ENGL 251-British Literature;
- ENGL 260-American Literature; ENGL 261-American Literature;
- ENGL 270-World Literature; ENGL 271-World Literature;
- FRAN 250-France Today; GERM 250-Germany Today;
- HIST 121-World Civilization I; HIST 122-World Civilization II;
- HIST 201-History of U.S. I; HIST 202-History of U.S. II;
- JAPN 250-Japan Today; PHIL 110-Adventure of Ideas: Historical;
- PHIL 120 Adventure of Ideas: Contemporary;
- PHIL 130-Ethics & Race; PHIL 160-Exploring Ethics;
- RLST 201-Intro Religious Studies; SPAN 250-Latin America Today

**Social & Behavioral Sciences (6 hours) Select two**
- AGRI 295-Intr`nl Food & Fiber; ANSC 270-Animal Welfare & Ethics;
- ECON 201-Macroeconomics; ECON 202-Microeconomics;
- ENGR 100-Society & Tech; GEOG 151-Intro Regional Geography;
- GEOG 152-Intro Regional Geography; GEOG 202-Intro Cultural;
- HLTH 111-Personal Health; IDST 201-Intro Women’s Studies;
- NRM 101-Wildlife, Conservation, and Environmental Issues;
- NRM 250-Global Perspectives in Natural Resources;
- NUTR 100-Intro Nutrition; POSC 210-American Govt & Politics;
- POSC 220-American Political Institutions & Policy;
- POSC 230-Intro World Politics; PSYC 101-Intro Psychology;
- SWRK 220-Understanding Human Diversity;
- SOC 201-General Sociology; SOC 202-Social Problems

**Mathematics (6 hours)**
- MATH 210 Elementary Statistics & Probability __/3
- Select one
- MATH 130 Nature of Mathematics __/3
- MATH 140 College Algebra & Elementary Function __/3
- MATH 160 Calculus for Business & Life Sciences __/3
- MATH 185 Precalculus __/5
- MATH 251 Calculus I __/3

### Animal Science Concentration (10 hours):
- ANSC 350 Animal Genetics __/3
- ANSC 371 Anatomy & Physiology Domestic Animals __/4
- ANSC 372 Applied Animal Reproduction __/3

**Vet Science Option Requirements:**

### Ag Core (10 hours):
- ANSC 110 Introduction to Animal Science __/3
- PLSC 110 Introductory Plant & Soil Science __/3
- AGEC 110 Introduction to Agricultural Business __/3
- ANSC 119 Introduction to Animal Science Lab __/1

### Physics (8 hours):
- PHYS 211 College Physics __/4
- PHYS 212 College Physics __/4

### Biology (7 hours):
- BIOL 337 Cell Biology __/3
- MBIO 251 General Bacteriology __/4

### Chemistry (12 hours):
- CHEM 341 Organic Chemistry __/4
- CHEM 342 Organic Chemistry __/4
- BCHE (minimum 4 hours, BCHEM 411 & 412 suggested):
  - BCHE 411 Cellular & Comparative Biochemistry __/3
  - BCHE 412 Cellular & Comparative Biochemistry __/3

### Vet Science Electives (5 hours):
- ANSC 210 Intro: Horse Science __/3
- ANSC 211 Horse Science Laboratory __/1
- ANSC 230 Exotic & Companion Animal __/3
- ANSC 231 Companion Animal Laboratory __/3
- ANSC 240 Live Animal Carcass Selection & Evaluation __/3
- ANSC 260 Behavior of Farm & Companion Animals __/3
- ANSC 270 Animal Welfare & Ethics __/3
- ANSC 351 Animal Nutrition Laboratory __/1

### Vet Science 300 level (8 hours):
- ANSC 320 Farm Animal Health __/3
- VET 300 Vet Tech Medical Terminology __/2
- ANSC 360 Animal Genetics __/3
- BIOL 336 Introductory Genetics __/3

### Vet Science UD (3 hours):
- ANSC 410 Beef Cow-Calf Production __/3
- ANSC 420 Swine & Poultry Science Production __/3
- ANSC 430 Stable Management __/3
- ANSC 440 Sheep & Goat Production __/3
- ANSC 470 New course for 2018-19 __/3
- WBIOL 405 Wildlife Habitat Management __/3

### Science Electives (8 hours):
- UD AGEC, ANSC, BIOL, BCHE, CHEM, FRP, MBIO, PLSC, VET, ZOOL __/3
- UD AGEC, ANSC, BIOL, BCHE, CHEM, FRP, MBIO, PLSC, VET, ZOOL __/3
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