

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 US 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

_____	___/3
_____	___/3
_____	___/3

Social & Behavioral Sciences (6 hours) *Select two*

AGRI 295-Intn'l 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

_____	___/3
_____	___/3

Mathematics (6 hours)

MATH 210	Elementary Statistics & Probability	___/3
<i>Select one</i>		
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	___/1
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
or 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
WBIO 405	Wildlife Habitat Management	___/3

Science Electives (8 hours):

UD AGECE, ANSC, BIOL, BCHE, CHEM, FRP, MBIO, PLSC, VET, ZOO	___/8
_____	___/8
_____	___/8

**B.S. in Agriculture
Animal Science - Veterinary Science (1128)
2018-2019**

Freshman Fall	
General Studies 101	2
ENGL 111	3
MATH 140, 160, 185, or 251	3
BIOL 130	4
AGEC 110	3
Semester Total	15

Freshman Spring	
ENGL 112	3
MATH 210	3
BIOL 140	4
ANSC 110	3
ANSC 119	1
Semester Total	14

Sophomore Fall	
COMM 230	3
CHEM 121	4
MBIO 251	4
PLSC 110	3
Fine Arts Elective	3
Semester Total	17

Sophomore Spring	
CHEM 122	4
ANSC 371	4
Humanities Elective	3
Social Science Elective	3
VET 300	2
Semester Total	16

Junior Fall	
CHEM 341	4
ANSC 320	3
Humanities Elective	3
ANSC 210, 211, 230, 231, 240, 260, 270, 351	3
ANSC 350	3
Semester Total	16

Junior Spring	
CHEM 342	4
UD Science	4
PHYS 211	4
ANSC 360	3
ANSC 210, 211, 230, 231, 240, 260, 270, 351	2
Semester Total	17

Senior Fall	
ANSC 372	3
BCHE 411	3
Humanities Elective	3
PHYS 212	4
UD SCIENCE	2
Semester Total	15

Senior Spring	
BCHE 412	3
Social Science Elective	3
ANSC 410, 420, 430, 440 or WBIO 405	3
BIOL 337	3
Semester Total	12