

The University of Tennessee at Martin
Bachelor of Science in Agriculture (with a major in General Agriculture)
Animal Science Concentration
Animal Science Option (program 1132)

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 animal sciences.

Students should take as many math and science (biology and chemistry) classes as possible in high school to prepare for a career in animal sciences. 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 primary purpose of this option is to prepare students for highly technical careers in genetics, nutrition, health, reproduction, and food processing; or post-baccalaureate training in these areas in graduate schools. Other options for this track include a wide variety of professional careers 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 business-related areas of animal production including fertilizer seed and animal health products sales, farm loan representatives, and banking. Excellent opportunities are available for those with special training in agricultural communication such as working on farm magazines and journals, as breed association field representatives with livestock associations, and in public relations. This option also prepares individuals for further studies in agriculture economics, business administration, food technology, and animal biotechnology.

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 licensed Doctors of Veterinary Medicine (DVM) and three faculty members with Ph.D.'s in animal science on staff. 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 Concentration – Animal Sciences Option (1132)

Course Requirements for 2018-2019 catalog

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

Animal Sciences Option Requirements (61 hours):

Ag Core (9-13 hours):

ANSC 110	Introduction to Animal Science	___/3
PLSC 110	Introductory Plant & Soil Science	___/3
Plus 3-7 Hours from:		
SOIL 210	Soil Science	___/4
or AGET 110	Intro Ag Engineering	___/3
or AGECE 110	Intro Agricultural Business	___/3

Option Requirements (11-14 hours):

ANSC 119	Intro Animal Science Lab	___/1
ANSC 320	Farm Animal Health	___/3
ANSC 374	Applied Animal Repro Lab	___/1
ANSC 360	Animal Genetics	___/3
or BIOL 336	Introductory Genetics	___/3

Choose from:

ANSC 410	Beef Cow-Calf Production	___/3
ANSC 413	Stocker & Feedlot Cattle Production	___/3
ANSC 420	Swine & Poultry Science Production	___/3
ANSC 430	Stable Management	___/3
ANSC 440	Sheep & Goat Production	___/3
WBIO 405	Wildlife Habitat Management	___/3

Animal Science Electives (3-8 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 253	Small Scale Farm Animal Production	___/3
ANSC 260	Behavior of Farm & Companion Animals	___/3
ANSC 270	Animal Welfare & Ethics	___/3
ANSC 351	Animal Nutrition Laboratory	___/1
ANSC 405		
FRP 201, 202	Fellows Research Seminar	___/1
COMM 200	Intro Media	___/3
ENGL 325	Technical Communications	___/3

Science Requirements (8 hours):

CHEM 310 & 319	Organic & Biochem, plus lab	___/4
or CHEM 341	Organic Chemistry	___/4
MBIO 251	General Bacteriology	___/4

Science Electives (19-30 hours) (limit of 8 LD hours)

AGRI 441; AGET; PLSC; WBIO; BCHE 411-412; BIOL 337;		
CHEM 342; MATH; PHYS 211,212; MBIO; ZOO; VET 300,		
350, 400; FRP 301, 402, OR 402; AGECE-limit 1 course;		
_____		___/
_____		___/
_____		___/

**B.S. in Agriculture
Animal Science – Animal Science
2018-2019**

Freshman Fall	
General Studies 101	2
ENGL 111	3
MATH 140	3
BIOL 130	4
ANSC 110	3
ANSC 119	1
Semester Total	16

Freshman Spring	
ENGL 112	3
MATH 210	3
BIOL 140	4
AGEC 110	3
PLSC 110	3
Semester Total	16

Sophomore Fall	
COMM 230	3
CHEM 121	4
MBIO 251	4
VET 300	2
Social Science Elective	3
Semester Total	16

Sophomore Spring	
CHEM 122	4
ANSC 360 or BIOL 336	3
Humanities Elective	3
Fine Arts Elective	3
ANIVET Elective	3
Semester Total	16

Junior Fall	
CHEM 310/319 or CHEM 341	4
ANSC 320 or 350	3
Soil 210 or AGEC 110	3-4
ANIVET Elective	1
ANSC 371	4
Semester Total	15-16

Junior Spring	
ANSC 372	3
ANSC 374	1
ANIVET Elective	2-3
Science Elective	3
Science Elective	3-4
ANSC 320 or 350	3
Semester Total	15-17

Senior Fall	
Social Science Elective	3
Science Elective	3
Science Elective	3-4
ANIVET Elective	1-2
ANSC 410-471 or WBIO 405	3
Semester Total	13-15

Senior Spring	
Humanities Elective	3
Science Elective	3
Science Elective	3
Science Elective	3 or 4
Semester Total	12-13