

ANIMAL SCIENCE: PRE-VETERINARY MEDICINE

Bachelor of Science (BS)

This is a guide based on the 2026-2027 Undergraduate Catalog and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

CURRICULUM CHECKLIST

Major Core: 33 Hours – No minor required

Required Courses:

- ___ AG111 Agriculture Orientation (1)
- ___ AG250 Agribusiness Management (3)
- ___ AG355 Agriculture Seminar & Career Preparation (2)
- ___ AY101 Introduction to Animal Science (3)
- ___ AY105 Animal Science Experiences (1)
- ___ AY106 Systems & Structures of Livestock Animals (1)
- ___ AY304 Principles of Animal Nutrition (3)
- ___ AY343 Applied Livestock Behavior & Welfare (3)
- ___ AY350 Animal Reproduction (3)
- ___ AY430 Livestock Feeds & Feedings (3)
- ___ AY460 Livestock Health & Diseases (3)
- ___ BY063 Evolution & Ecology Lab (0)
- ___ BY163 Evolution & Ecology (4) GE

Choose 3 hours:

- ___ AG465 Agriculture Internship (3-6)
- ___ AG469 Undergraduate Research in Agriculture (3)

Additional Requirements –

Choose 4 hours:

- ___ CH181/184 Basic Principles of Chemistry and Lab (4) GE
- ___ CH184/185 General Chemistry I and Lab (4) GE

Choose 3 hours:

- ___ MA116 Precalculus A (3) GE
- ___ MA155 Statistical Reasoning (3) GE

Pre-Veterinary Medicine Option

Required Courses:

- ___ AY300 Domestic Animal A&P I (3)
- ___ AY310 Domestic Animal A&P II (3)
- ___ BY173/073 Cell & Organismal Biology and lab (4)
- ___ BY283/083 Genetics and lab (4)
- ___ BY310/010 Microbiology and lab (4)
- ___ CH186 General Chemistry II (3)
- ___ CH187 General Chemistry II Lab (1)
- ___ CH341 Organic Chemistry I (4)
- ___ CH342 Organic Chemistry I Lab (1)
- ___ CH343 Organic Chemistry II (4)
- ___ CH344 Organic Chemistry II Lab (1)
- ___ CH531 Biochemistry (3)
- ___ MI101 Introduction to Micro Applications (3)
- ___ MA117 Precalculus B (3)
- ___ HL113 Medical Terminology (3)
- ___ PH120/020 Physics I and Lab (5) GE
- ___ PH121/021 Physics II and Lab (5)

Electives - Choose 12 hours:

- ___ AG465 Agriculture Internship (3-6)
- ___ AG470 Agribusiness Sales & Retail Marketing (3)
- ___ AG480 Farm & Ranch Management (3)
- ___ AY203 Companion Animal Healthcare & Industry (3)
- ___ AY205 Horse Science (3)
- ___ AY220 Animal Handling (1)
- ___ AY222 Swine Science (3)
- ___ AY240 Beef Production (3)
- ___ AY265 Small Livestock Production (2)
- ___ AY305 Advanced Horse Science (3)
- ___ AY320 Meat Science (3)
- ___ AY375 Animal Breed Improvement (3)
- ___ AY485 Managing Animal Systems for Industry Success: A Capstone Experience (3)
- ___ BY404 Cell Biology (4)
- ___ MA555 Applied Stats in Agribusiness (3)

Pre-Veterinary Medicine Total Hours = 134

Degree requirements for all students: a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Catalog or Degree Works for additional graduation requirements for your program.

A minimum 2.0 GPA in the major and overall are required to graduate with a BS degree.

General Education Requirements – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	1	BY163/063	4
	AY101	3	CH186	3
	AY105	1	CH187	1
	AY106	1	EN100	3
	AG111	1	General Education	3
	CH185 or CH181	3	MI101	3
	CH184	1		
	MA116	3		
	Total	14	Total	17
SECOND YEAR	AY300	3	AY310	3
	AY304	3	BY173/073	4
	CH341/342	5	General Education	3
	General Education	3	General Education	3
	General Education	3	HL113	3
			MA117	3
	Total	17	Total	19
THIRD YEAR	AY350	3	BY310/010	4
	AY460	3	AG355	2
	BY283/083	4	AG250	3
	CH343/344	5	AY343	3
	General Education	3		
	Total	18	Total	15
FOURTH YEAR	AG Elective	3	AY Elective	3
	AY Elective	3	AY Elective	3
	CH531	3	General Education	3
	General Education	3	PH121/021	5
	PH120/020	5		
	Total	17	Total	14
SUMMER SESSION			AG465 or AG469	3



Revised
10/1/2026

DEGREE MAP 2026-2027



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