



**MURRAY STATE**  
UNIVERSITY

Hutson School of Agriculture

## **Bachelor of Science in Agriculture Pre-Veterinary Medicine**

Murray State University offers a unique opportunity for those who are interested in the field of agriculture. This university offers a diversified program in the area of Animal Technology, with the option to focus intensely on a student's particular avenue of interest. Students enrolled in the Animal Technology program may choose to focus on Veterinary Technology or Pre-Veterinary Medicine.

### **Career Outlook**

#### **Pre-Veterinary Medicine**

This prepares students for acceptance into veterinary school at Auburn, Tuskegee, or other veterinary schools.

#### **Veterinary Technology**

This option prepares students for employment in veterinary practices, pharmaceutical manufacturing, universities, veterinary diagnostic laboratories, animal food production facilities, biological laboratories, industries that produce and market animal health products, food inspection, and veterinary technological institutions.

### **Academic Highlights**

The Pre-Veterinary Medicine Program at Murray State University can meet the prerequisite requirements for any of the thirty-two veterinary schools in the nation. The state of Kentucky has contractual agreements with Auburn University for thirty-eight students and for four students at Tuskegee University. These spaces are available to legal Kentucky residents on a competitive basis.

The Veterinary Technology program at Murray State University is a four-year baccalaureate program. Students in Veterinary Technology will be instructed in the health care of dogs, cats, laboratory animals, horses, beef, sheep, swine, and exotics. Students will also receive a semester of intense instruction from faculty at a veterinary diagnostic laboratory. This semester focuses on diagnostic and research techniques in large and small animals. The optional plan is designed for those students whose main goal is gaining acceptance into a veterinary school.

### **Facilities**

Hutson School of Agriculture facilities include the south wing of the Oakley Applied Science Building, the E.B. Howton Agricultural Engineering building, the Equine Instructional Facility, greenhouses, and five farm complexes.

The Veterinary Technology/Pre-Veterinary Medicine Program is located on the main farm complex in the A. Carman Animal Technology Center. The center houses classrooms, faculty offices, laboratories, a pharmacy, a surgery suite, kennels, and a radiology laboratory. It also has a large-animal area so students can work with cows, horses, swine, etc. The program is equipped with state-of-the-art supplies and equipment.

### **Organizations**

- **Animal Welfare Club**
- **Block & Bridle**
- **Christian Veterinary Fellowship**
- **Horseman's Association**
- **Livestock Judging Team**
- **Swine Club**
- **Veterinary Technology/Pre-Vet Club**

### **For More Information Contact**

**Recruitment Coordinator**  
**Murray State University**  
**Hutson School of Agriculture**  
**(270) 809-3329**  
**[msu.ag@murraystate.edu](mailto:msu.ag@murraystate.edu)**



**Visit Our Website**  
**[www.murraystate.edu/agr](http://www.murraystate.edu/agr)**

**Murray State University Hutson School of Agriculture  
Pre-Veterinary Medicine Curriculum 2024-2025**

University Studies - Foundations				
Cat.	Dept.	No.	Description	Hrs.
<b>Oral Communications</b>				3
	COM	161	Intro. to Public Speaking	
<b>Written Communications</b>				4
	ENG	105	Critical Reading, Writing & Inquiry	
<b>Scientific Inquiry and Methodologies (must include lab)</b>				4
	PHY	130	General Physics I &	
	PHY	131	General Physics I Lab	
<b>Quantitative Reasoning</b>				5-7
	MAT	140	College Algebra <b>AND</b>	
	MAT	145	Trigonometry <b>OR</b>	
	MAT	150	Algebra & Trigonometry	
University Studies - The Human Experience				
<b>Literary &amp; Philosophical Perspectives</b>				3
	HUM	211	The Humanities Tradition	
<b>Historical Perspectives</b>				3
	CIV	201	World Civilizations I	
<b>Creative Perspectives</b>				3
	ART	121	Art & Visual Culture <b>OR</b>	
	MUS	104	Intro to Jazz History <b>OR</b>	
	MUS	105	Intro to Music History	
<b>Social &amp; Behavioral Perspectives</b>				3
	PSY	180	General Psychology <b>OR</b>	
	SOC	133	Introduction to Sociology	
<b>Culture, Diverse Perspectives &amp; Responsible Citizenship</b>				3
	PHI	202	Ethics <b>OR</b>	
	POL	140	American National Government	
<b>BS Science/Mathematics Requirement</b>				5
	CHE	201	General College Chemistry	

**Must complete all Pre-Veterinary Medicine courses with at least a "C" or higher.**

Agriculture Core Courses				
Cat.	Dept.	No.	Description	Hrs.
	AGR	100T	Transitions	1
	AGR	100	Animal Science	3
	AGR	300	Principles of Animal Nutrition	3
	AGR	310	Applications in Animal Technology	3
	AGR	339	Computer Apps for Ag	3
	AGR	399	Professional Development Seminar I	1
	AGR	504	Diseases of Livestock	3
	AGR	599	Ag Senior Capstone	1
<b>Complete at least 1 of the following:</b>				3
	AGR	170	Intro to Ag Systems Technology	
	AGR	375	Animal Emergency Preparedness	
	AGR	377	Agriculture Safety	
<b>Complete at least 1 of the following:</b>				3
	AGR	403	Equine Reproduction	
	AGR	423	AI Techniques for Cattle	
	AGR	506	Reproductive Physiology	
Pre-Veterinary Medicine Track Courses				
	AGR	322	Introductory Veterinary Lab I	4
	AGR	324	Veterinary Diagnostic Imaging	3
	AGR	332	Veterinary Nursing	3
	AGR	510	Animal Physiology	3
	AGR	550	Applied Pharmacology	3
	BIO	300	Introductory Microbiology	4
<b>Complete at least 1 of the following:</b>				3
	AGR	489	Cooperative Education/Internship	
	AGR	590	Internship in Animal Technology	
			Unrestricted Electives	2-4

**Required Support Courses**

	AGR	331	Small Animal Diseases	3
	BIO	100	Introductory Biology Lab	1
	BIO	115	The Cellular Basis of Life	3
	BIO	221	Zoology: Animal Form & Function	4
	BIO	321	Cell Biology	3
	CHE	202	General Chemistry & Qualitative Analysis	5
	CHE	310	Organic Chemistry I	3
	CHE	311	Organic Chemistry I Lab	2
	CHE	320	Organic Chemistry II	3
	CHE	330	Basic Biochemistry	3
	CIV	202	World Civilizations II	3

**Minimum Credential Hours: 120**