MURRAY STATE UNIVERSITY

Hutson School of Agriculture

Bachelor of Science in Agriculture
Animal/Equine Science - Food Animal Option

Murray State University offers a unique opportunity for those who are interested in the field of agriculture. The university offers a diversified program in the area of Animal/Equine Science, with the option to focus intensely on a student's particular avenue of interest. Students enrolled in the Animal/Equine Science program may choose to focus on food animals and/or equine.

Career Outlook

Training in various areas of animal and equine sciences can prepare students for employment in many fields and a variety of positions. There are over 500 distinct occupations in animal agriculture. Some opportunities include science, teaching, agricultural services, allied industries, manufacturing, and production.

Academic Program Highlights

Animal agriculture is specific, specialized, mechanized, computerized, and industrialized. Students enrolled in animal sciences have an opportunity to study the many areas of subject matter associated with animal agriculture.

Students receive scientific training in animal breeding and genetics, nutrition, physiology, management, animal evaluation and selection, and disease control and sanitation. In the animal agriculture industry today, students must be well-grounded in both the biological and physical sciences. It is recognized that many animal science students today do not have the practical experience necessary for many positions requiring a combination of technical and practical training. At MSU, practical experience in animal science is attained through laboratories and summer internships.

For More Information Contact

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

Facilities

Hutson School of Agriculture facilities include classrooms, scientific laboratories, kitchen laboratories, and offices housed in the Oakley Applied Science Building; and the E.B. Howton Agricultural Engineering Building.

Murray State University owns five farm complexes that benefit the students in the Hutson School of Agriculture by providing hands-on experience. Two of these complexes focus on animal agriculture. The West Farm Complex houses the beef operation, A. Carman Animal Technology Pavilion, Rudolph Equine Education Center, Cherry Agricultural Exposition Center, and agronomy plots.

The North Farm Complex houses the swine lab and show pig operation which produces both market hogs and show pigs. MSU Show pigs are sold to FFA and 4-H students across the nation.

Organizations

- **Block & Bridle**
- **Horseman's Association**
- **Swine Club**
- **Rodeo Club**
- **Intercollegiate Equestrian Team**
- **Dressage Club**
- **Intercollegiate Rodeo Team**
- **Veterinary Technology/Pre-Vet Club**
- **Animal Welfare Club**
- **Christian Veterinary Fellowship**

Visit Our Website
www.murraystate.edu/agr

Murray State University Hutson School of Agriculture
Food Animal Science Curriculum 2025-2026

University Studies - Foundations				
Cat.	**Dept.**	**No.**	**Description**	**Hrs.**
Oral Communications				3
	COM	161	Intro. to Public Speaking	
Written Communications				4
	ENG	105	Critical Reading, Writing & Inquiry	
Scientific Inquiry and Methodologies (must include lab)				4-5
	CHE	105	Introductory Chemistry **OR**	
	CHE	201	General College Chemistry	
Quantitative Reasoning				5-7
	MAT	140	College Algebra **&**	
	MAT	145	Trigonometry **OR**	
	MAT	150	Algebra & Trigonometry	
University Studies - The Human Experience				
Literary & Philosophical Perspectives				3
Historical Perspectives				3
Creative Perspectives				3
Social & Behavioral Perspectives				3
	AGR	199	Contemp. Issues in Food, Fiber & NR	
Culture, Diverse Perspectives & Responsible Citizenship				3
BS Science/Mathematics Requirement				4
	BIO	101	Biological Concepts **AND**	
	BIO	100	Intro to Biology Lab	

Required Support Courses				
	AGR	140	Plant Science	3
	AGR	330	Principles of Agribusiness	3
	AGR	333	Agribusiness Records & Analysis	3
	AGR	345	Soil Science	2
	AGR	433	Farm Management	3
Complete at least 1 of the following:				3
	AGR	436	Undergraduate Research in Agriculture	
	AGR	489	Cooperative Education/Internship	
	AGR	496	Selected Studies in Agriculture	
	AGR	533	Seminar in International Ag Systems	

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	323	Livestock Form and Function	3
	AGR	339	Computer Apps for Ag	3
	AGR	375	Animal Emergency Preparedness	3
	AGR	399	Professional Development Seminar I	2
	AGR	504	Diseases of Livestock	3
Complete at least 1 of the following:				3
	AGR	403	Equine Reproduction	
	AGR	422	Livestock Reproduction	
	AGR	506	Reproductive Physiology	
Food Animal Science Track Courses				
	AGR	311	Beef Science	3
	AGR	314	Small Ruminant Science	3
	AGR	321	Poultry Science	3
	AGR	326	Swine Science	3
	AGR	327	Meat Science	3
Complete at least 2 of the following:				6
	AGR	301	Livestock Judging & Evaluation	
	AGR	305	Meat Poultry Production Evaluation	
	AGR	320	Livestock Behavioral Analysis	
	AGR	423	AI Techniques for Cattle	
	AGR	444	Prom & Entr of Livestock & Their Products	
Complete at least 1 of the following:				3
	AGR	426	Experience in Swine Production	
	AGR	421	Advanced Nutrition	
	AGR	424	Animal Breeding	
	AGR	412	Beef Cattle Management Systems	
	AGR	549	Weeds and Their Control	
	Unrestricted Electives			16-19

Minimum Credential Hours: 120