



MURRAY STATE UNIVERSITY

Hutson School of Agriculture

Bachelor of Science in Agriculture Animal/Equine Science - Equine Options

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. Within the equine area, students may focus on equine business management or equine science.

Career Outlook

Training in various areas of Animal/Equine Science can prepare the student for employment in many fields and a variety of positions. In fact, there are over 500 distinct occupations in animal agriculture. Some of the 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, laboratories and offices housed in Oakley Applied Science Building, the A. Carman Animal Technology Center, the E.B. Howton Agricultural Engineering Building, the Wm. "Bill" Cherry Agricultural Exposition Center, greenhouses, and five farm complexes.

The MSU Rudolph Equine Education Center, located on the West Farm Complex, includes the opportunity for students to board their horses on-campus. Interested students should complete the online stall application process to be eligible. Facilities include the Equine Instructional Facility, equine stall barns, indoor riding area, outdoor riding arena, turn-out lots, wash racks, round pens, etc.

Organizations

- **Block & Bridle**
- **Horseman's Association**
- **Swine Club**
- **Intercollegiate Equestrian Team**
- **Dressage Club**
- **Intercollegiate Rodeo Team**
- **Livestock Judging 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
Equine Business Management/Science Curriculum 2024-2025

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	100	Biological Concepts AND	
	BIO	101	Intro to Biology Lab	

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	1
	AGR	504	Diseases of Livestock	3
	AGR	599	Ag Senior Capstone	1
Complete at least 1 of the following:				3
	AGR	403	Equine Reproduction	
	AGR	422	Livestock Reproduction	
	AGR	506	Reproductive Physiology	

COMPLETE ONE OF THE TRACKS LISTED BELOW

Equine Business Management Track Courses				
	AGR	201	Intermediate Horsemanship	3
	AGR	302	Horse Science	3
	AGR	319	Equine Nutrition	
	AGR	330	Principles of Agribusiness	3
Complete at least 1 of the following:				3
	AGR	101	Basic Stock Seat	
	AGR	111	Basic Forward Seat	
Complete at least 1 of the following:				3
	AGR	309	Equine Facility Management	
	AGR	317	Equine Health Care Management	
Complete at least 1 of the following:				3
	AGR	304	Advanced Stock Seat	
	AGR	306	Advanced Forward Seat	
	AGR	405	Equine Behavior Modification	
	AGR	414	Teaching Methods in AES	
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	
Required Support Courses				
	AGR	333	Agribusiness Records and Analysis	3
	AGR	433	Farm Management	3
	MGT	350	Fundamentals of Management	3
	MKT	360	Principles of Marketing	3
Unrestricted Electives				23-25

Equine Science Track Courses				
	AGR	302	Horse Science	3
	AGR	303	Advance Horse Science	3
	AGR	407	Equine Selection & Evaluation	3
Complete at least 1 of the following:				3
	AGR	101	Basic Stock Seat	
	AGR	111	Basic Forward Seat	
Complete at least 2 of the following:				6
	AGR	315	Equine Exercise Physiology	
	AGR	317	Equine Health Care Management	
	AGR	319	Equine Nutrition	
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	
Required Support Courses				
	AGR	240	Crop Science	3
	AGR	328	Statistics for Food and Agriculture	3
	AGR	330	Principles of Agribusiness	3
	AGR	345	Soil Science	3
Unrestricted Electives				23-25

Minimum Credential Hours: 120