

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

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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 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, disease control and sanitation. In 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.

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

### **Facilities**

Hutson School of Agriculture facilities include classrooms, laboratories and offices housed in the south wing of the Oakley Applied Science Building, the A. Carman Animal Health Technology Center, the E.B. Howton Agricultural Engineering Building, the Equine Instructional Facility, greenhouses and four farm complexes located near campus.

The horse and beef facilities are a part of the farm-laboratory complex. The Wm. "Bill" Cherry Agricultural Exposition Center is utilized for equine and rodeo classes, contests, field days, judging contests, clinics and numerous agriculture activities.

### **Organizations**

- **Block & Bridle**
- **Horseman's Association**
- **Swine Club**
- **Rodeo Club**
- **Intercollegiate Equestrian Team**
- **Dressage Club**
- **Intercollegiate Rodeo Team**
- **Pre-Veterinary Medicine/Veterinary Technology 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)**

**MURRAY STATE UNIVERSITY  
HUTSON SCHOOL OF AGRICULTURE  
ANIMAL/EQUINE SCIENCE CURRICULUM  
EQUINE SCIENCE AND EQUINE MANAGEMENT  
2018-2019 CATALOG**

**GENERAL EDUCATION/UNIVERSITY STUDIES COURSES**

Dept.	No.	Description	Hrs.	Gr.
<b>ORAL AND WRITTEN COMMUNICATION 7 HRS</b>				
ENG	105	Critical Reading, Writing & Inquiry	4	
COM	161	Intro. to Public Speaking	3	
<b>SCI. INQUIRY, METHODS, QUANT. SKILLS 12-13 HRS</b>				
BIO	101	Biological Concepts <b>OR</b>	4	
BIO	221	Zoology		
CHE	101	Consumer Chemistry <b>OR</b>	4/5	
CHE	105	Intro to Chemistry I <b>OR</b>		
CHE	201	General College Chemistry		
MAT	140	College Algebra	4	
<b>WORLD HISTORICAL LIT. AND PHILOSOPHY 6 HRS</b>				
CIV	201	World Civilizations I	3	
HUM	211	Western Humanities Tradition	3	
<b>GLOBAL AWARENESS AND CULT. DIVERSITY 3 HRS</b>				
		UNIV STUDIES ELECTIVE	3	
<b>SOCIAL AND SELF AWARENESS 6 HRS</b>				
AGR	199	Contemporary Issues in Ag	3	
		ELECTIVE	3	
<b>UNIVERSITY STUDIES ELECTIVES 6 HRS</b>				
CHE	210	Brief Organic Chem <b>AND</b>		
CHE	215	Organic Chem Lab <b>OR</b>		
CHE	202	General Chem & Qual <b>OR</b>		
GSC	101	Earth & Environment <b>OR</b>		
GSC	102	Earth Through Time <b>OR</b>		
GSC	199	Earth Science	4/5	
		ELECTIVE	1/2	
<b>UNRESTRICTED ELECTIVES 20-21 HRS</b>				

**AGRICULTURE CURRICULUM COURSES CONTINUED**

AGR	170	Intro. to Ag Sys Tech <b>OR</b>	3	
AGR	377	Ag Safety <b>OR</b>		
AGR	375	Animal Emergency Preparedness		
AGR	403	Equine Reproduction <b>OR</b>	3	
AGR	506	Repro Physiology <b>OR</b>		
AGR	523	AI Techniques for Cattle		
<b>SELECT ONE EMPHASIS LISTED BELOW</b>				
<b>EQUINE MANAGEMENT EMPHASIS COURSES 23 HRS</b>				
AGR	101	Basic Stock Seat <b>OR</b>	3	
AGR	111	Basic Forward Seat		
AGR	130	Ag Economics	3	
AGR	133	Field App for Ag	2	
AGR	201	Intermediate Horsemanship	3	
AGR	302	Horse Science	3	
AGR	304	Adv Stock Seat <b>OR</b>	3	
AGR	306	Adv Forward Seat <b>OR</b>		
AGR	405	Equine Behavior Modification <b>OR</b>		
AGR	514	Teaching Horsemanship		
AGR	309	Eq Facilities Mgt <b>OR</b>	3	
AGR	317	Eq Health Care & Mgt		
AGR	318	Eq Forage Mgt <b>OR</b>	3	
AGR	319	Eq Nutrition & Feeding		
<b>Required Support Courses 12 HRS</b>				
AGR	330	Principles of Ag Bus	3	
AGR	333	Ag Bus Records & Analy	3	
AGR	433	Farm Management	3	
MGT	350	Fund. of Management	3	
<b>EQUINE SCIENCE EMPHASIS COURSES 24 HRS</b>				
AGR	101	Basic Stock Seat <b>OR</b>	3	
AGR	111	Basic Forward Seat		
AGR	130	Ag Economics	3	
AGR	302	Horse Science	3	
AGR	303	Adv Horse Science	3	
AGR	309	Eq Facilities Mgt <b>OR</b>	3	
AGR	317	Eq Health Care & Mgt		
AGR	315	Eq Exercise Physiology	3	
AGR	318	Eq Forage Mgt <b>OR</b>	3	
AGR	319	Eq Nutrition & Feeding		
AGR	407	Eq Selection & Evaluation	3	
<b>Required Support Courses 11 HRS</b>				
AGR	133	Field App for Ag	2	
AGR	240	Crop Science	3	
AGR	345	Soil Science	3	
AGR	328	Stats for Food & Ag	3	

**AGRICULTURE CURRICULUM COURSES**

Dept.	No.	Description	Hrs.	Gr.
<b>AGRICULTURE CORE COURSES 24 HRS</b>				
AGR	100T	Transitions (Freshmen Orientation)	1	
AGR	100	Animal Science	3	
AGR	300	Animal Nutrition	3	
AGR	310	App in Animal Technology	3	
AGR	339	Computer App for Ag	3	
AGR	399	Professional Development Seminar I	1	
AGR	504	Diseases of Livestock	3	
AGR	599	Ag Senior Capstone	1	

In addition to the two Equine Areas (Equine Science and Equine Management), MSU does offer an Equine Science Minor, which would be 21 hours. The program must be approved by an advisor and include fifteen hours of required courses (AGR 101 or 111, 201, 302, 303 and 317). Six additional hours of upper-level equine courses must be completed in residence at Murray State University.