

## **Bachelor of Science in Agriculture Agriscience Technology Emerging Technology Emphasis**

Offering career preparation for students interested in a broad, diversified education in agriculture leading to a Bachelor of Science degree and a career in agriculture.

### **Career Outlook**

The field of agriculture includes a very broad range of career objectives. Subject matter fields include plant science, animal science, soil science, horticulture, agricultural engineering, agricultural education, agribusiness and agricultural economics. Job opportunities are numerous, and students trained in general agriculture are in high demand. A brief list of agricultural positions might include plant breeder, soil scientist, soil conservationist, extension agent, sales representative, banker, agriculture teacher, nursery specialist, landscape designer, greenhouse manager, farmer, nutritionist, animal breeder, economist, forester, processor, food scientist and farm manager.

Students with a general interest in agriculture come to Murray State University from varied rural and urban experiences. They have a wide range of interests and career objectives for employment in agriculture.

### **Organizations**

- Agriculture Leadership Council
- Agriculture Ambassadors
- Agribusiness Club
- Agricultural Engineering Technology Club
- Agronomy Club
- Alpha Zeta
- Veterinary Technology/Pre-Vet Club
- Block & Bridle
- Collegiate FFA
- Dressage Club
- Equestrian Team
- Horseman's Association
- Horticulture Club
- Collegiate Farm Bureau
- Swine Club
- Rodeo Team/Club
- Sigma Alpha
- Collegiate 4-H
- Alpha Gamma Rho
- Soil and Crops Judging Teams

### **Facilities**

Hutson School of Agriculture facilities include classrooms, laboratories and offices housed in the south wing of Oakley Applied Science Building, the A. Carman Animal Health Technology Center and the E.B. Howton Agricultural Engineering Building.

There are four farm complexes located within a mile of the main campus. These complexes include three greenhouses, agronomy plots, a beef unit, the West Kentucky Exposition Center, the Equine Center and the Agricultural Mechanization Instructional Facility/Farm Shop. These facilities are utilized for classes, contests, field days, judging contests, clinics and numerous agriculture activities.

### **Emerging Technology Emphasis**

Modern day agriculture is becoming an ever increasingly technological field. Production agriculture practices now include many technology based fields such as precision agriculture, internet, guidance systems, graphic information systems and many other advanced computer applications.

This curriculum emphasis will allow students to get a broad curricular background in agriculture and supplement it with technology based course work to prepare them for agricultural and technology related careers.

### **For More Information Contact**

**Recruitment Coordinator  
Murray State University  
Hutson School of Agriculture  
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[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  
AGRISCIENCE TECHNOLOGY CURRICULUM  
EMERGING TECHNOLOGY EMPHASIS  
2017-2018 CATALOG**

**GENERAL EDUCATION/UNIVERSITY STUDIES COURSES**

Dept.	No.	Description	Hrs.	Gr.
<b>ORAL &amp; WRITTEN COMMUNICATION</b>				<b>7 HRS</b>
ENG	105	Critical Reading, Writing & Inquiry	4	
COM	161	Intro. to Public Speaking	3	
<b>SCI. INQUIRY, METHODS, QUANT. SKILLS</b>				<b>12 HRS</b>
BIO	101	Biological Concepts	4	
CHE	105	Intro. to Chemistry I	4	
MAT	140	College Algebra	4	
<b>WORLD HISTORICAL, LIT, &amp; PHIL TRAD</b>				<b>6 HRS</b>
CIV	201	World Civilizations I	3	
HUM	211	Western Humanities Tradition	3	
<b>GLOBAL AWARE, CULT DIV, WORLD ARTISTIC</b>				<b>3 HRS</b>
<b>Select One of the Following Courses</b>				
AGR	200	International Ag Experience		
AGR	353	World, Food & Ag		
SPA	106	Spanish for the Ag Industry	3	
<b>SOCIAL &amp; SELF AWARENESS</b>				<b>6 HRS</b>
BIO	103	Saving Planet Earth <b>OR</b>		
POL	140	American National Gov	3	
AGR	199	Contemporary Issues in Ag	3	
<b>UNIVERSITY STUDIES APPROVED ELECTIVES</b>				<b>6 HRS</b>
CHE	210	Brief Organic Chem <b>AND</b>	3	
CHE	215	Organic Chem Lab <b>OR</b>	1	
GSC	199	Earth Science	4	
		Elective	2	
<b>40 HOURS OF UNIVERSITY STUDIES</b>				

**AGRICULTURE CURRICULUM COURSES**

<b>AGRICULTURE CORE COURSES</b>				<b>26 HRS</b>
AGR	100T	Transitions (Freshmen Orientation)	1	
AGR	100	Animal Science	3	
AGR	130	Intro. to Agribusiness	3	
AGR	133	Field Applications for Ag	2	
AGR	160	Horticultural Science <b>OR</b>		
AGR	240	Crop Science	3	
AGR	170	Intro. to Ag Systems Tech	3	
AGR	199	Contemporary Issues in Ag	3	
AGR	339	Computer Applications for Ag	3	
AGR	345	Soil Science	3	
AGR	399	Prof Dev Seminar I <b>OR</b>	1	
AGR	499	Lead/Prof Dev Seminar II	1	
AGR	599	Ag Senior Capstone	1	

**AGRICULTURE CURRICULUM COURSES CONTINUED**

<b>AGRISCIENCE TECHNOLOGY COURSES</b>				<b>24 HRS</b>
AGR	377	Ag Safety	3	
AGR	433	Farm Management	3	
AGR		<b>ELECTIVES</b>	6	
<b>Select One of the Following Courses</b>				
AGR	300	Animal Nutrition		
AGR	301	Livestock Judging		
AGR	302	Horse Science		
AGR	311	Beef Science		
AGR	312	Dairy Science		
AGR	321	Poultry Science		
AGR	326	Swine Science	3	
<b>Select One of the Following Courses</b>				
AGR	330	Principles of Agribusiness Management		
AGR	333	Ag Bus Rec & Analysis		
AGR	337	Ag Sales & Merchandising	3	
<b>Select One of the Following Courses</b>				
AGR	360	Greenhouse Prod & Mgt		
AGR	461	Plant Propagation		
AGR	542	Plant Breeding I		
AGR	549	Weeds & Their Control	3	
<b>Select One of the Following Courses</b>				
AGR	372	Ag Metal Processes		
AGR	379	Field Equip Tech Mgt		
AGR	470	Soil & Water Engineering		
AGR	477	Ag Power Units		
AGR	576	Ag Electrification Systems		
AGR	577	Tractor Power Principles	3	
<b>EMERGING TECHNOLOGY EMPHASIS</b>				<b>22 HRS</b>
AGR	471	App in Precision Ag	3	
AGR	571	Adv Precision Ag	3	
GSC	202	Intro to Geographic Info Sci	4	
GSC	312	Intro to Remote Sensing	3	
<b>Select 3 of the following</b>				
AGR	439	Software App for Ag	3	
AGR	539	Adv Computer App for Ag	3	
CSC	125	Internet & WWW Tech	3	
GSC	305	Map Analysis	3	
GSC	521	Geographic Info Systems	3	
TSM	120	Intro to Telecommunications	3	
<b>UNRESTRICTED ELECTIVES</b>				<b>8 HRS</b>