



Hutson School of Agriculture

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

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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
- Christian Veterinary Fellowship
- Block & Bridle
- Collegiate FFA
- Dressage Club
- 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 Cherry Agricultural Exposition Center, the Equine Center, the Swine Unit and the Agricultural Mechanization Instructional Facility/Farm Shop. These facilities are utilized for classes, contests, field days, judging contests, clinics and numerous agriculture activities.

### **Agriscience Technology Emphases**

Within the agriscience technology program, students will choose one of the following emphasis which will require 21 focus hours.

- Communications Emphasis
- Emerging Technology Emphasis
- Extension/Leadership Emphasis
- Sustainable Food and Environmental Systems Emphasis

### **For More Information Contact**

**Recruitment Coordinator  
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Hutson School of Agriculture  
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**Visit Our Website  
[www.murraystate.edu/agr](http://www.murraystate.edu/agr)**

**Murray State University Hutson School of Agriculture**  
**Agriscience Technology Curriculum 2023-2024**

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
	BIO	101	Biological Concepts AND	
	BIO	100	Intro to Biology Lab	
<b>Quantitative Reasoning</b>				4
	MAT	140	College Algebra	
University Studies - The Human Experience				
<b>Literary &amp; Philosophical Perspectives</b>				3
<b>Historical Perspectives</b>				3
<b>Creative Perspectives</b>				3
<b>Social &amp; Behavioral Perspectives</b>				3
	AGR	199	Contemp. Issues in Food, Fiber & NR	
<b>Culture, Diverse Perspectives &amp; Responsible Citizenship</b>				3
	AGR	200	Cultural & Intl. Ag Perspectives OR	
	AGR	353	World, Food, Agriculture & Society	
<b>BS Science/Mathematics Requirement</b>				4
	CHE	101	Consumer Chemistry OR	
	CHE	105	Introductory Chemistry OR	
	EES	199	Earth Science	

**Required Support Courses (Complete 1 of the following Emphases)**

**Communications Emphasis**

	AGR	385	Dissem. Ag, Food & NR thro. Emerg. Media	3
	AGR	585	Specialized Journalism/RTV	3
	AGR	595	Integrated Ag Communication Strategies	3
	JMC	168	Contemporary Mass Media	3
	JMC	194	Newsriting	3
	JMC	330	Mass Media Effects	3
	JMC	590	Mass Communications Law	3

**Emerging Technology Emphasis**

	AGR	170	Intro to Ag Systems Tech OR	3
	AGR	370	Intro to Precision Agriculture	
	AGR	471	App in Precision Ag	3
	AGR	571	Adv Precision Ag	3
	AGR	439	Software App for Ag	3
	AGR	539	Adv Computer App for Ag	3
	UAS	110	Introduction to Aviation	3
	UAS	310	Intro. to Unmanned Aerial Systems App	3

**Sustainable Food and Environmental Systems Emphasis**

	AGR	378	Ag Environmental Mgt Sys	3
	AGR	561	Sustainable Agriculture	3
	AGR	347	Urban Faming	3
	AGR	351	Impact of Climate Change on Agriculture	3
	AGR	455	Soil Management	3
	AGR	354	Organic Agriculture	3
	AGR	359	Introduction to Bee Keeping OR	3
	AGR	369	An Overview of Hops & Brewing	

**Extension/Leadership Emphasis**

	AED	380	Ag Education, Extension & Leadership	3
	AGR	488	Coop Ed/Internship	3
	AGR	489	Coop Ed/Internship	3
	NLS	290	Community Engmt. & the Nonprofit Sector	3
	NLS	350	Program Development	3
	NLS	351	Leadership, Gov., and Board Development	3
	Adv. Approv. - AGR/AED/CTE/MGT/COM/NLS Elective			3

Agriculture Core Courses				
Cat.	Dept.	No.	Description	Hrs.
	AGR	100T	Transitions	1
	AGR	100	Animal Science	3
	AGR	130	Agricultural Economics OR	3
	AGR	333	Record Keeping & Analysis for Agribusiness	
	AGR	133	Field Applications for Ag	2
	AGR	140	Plant Science OR	3
	AGR	160	Horticultural Science OR	
	AGR	240	Crop Science	
	AGR	170	Intro to Ag Systems Tech OR	3
	AGR	370	Intro to Precision Agriculture	
	AGR	199	Contemp. Issues in Food, Fiber & NR	3
	AGR	339	Computer Apps for Ag	3
	AGR	345	Soil Science	3
	AGR	399	Prof Development Sem I OR	1
	AGR	499	Leadership/Prof Development Sem II	
	AGR	599	Ag Senior Capstone	1
Agriscience Technology Track Courses				
	AGR	377	Agriculture Safety	3
	AGR	433	Farm Management	3
	AGR		Electives	6
<b>Complete at least 1 of the following:</b>				3
	AGR	300	Animal Nutrition	
	AGR	301	Livestock Judging & Evaluation	
	AGR	302	Horse Science	
	AGR	311	Beef Science	
	AGR	312	Dairy Science	
	AGR	321	Poultry Science	
	AGR	326	Swine Science	
<b>Complete at least 1 of the following:</b>				3
	AGR	330	Principles of Agribusiness Management	
	AGR	333	Agribusiness Records & Analysis	
	AGR	337	Agricultural Sales & Merchandising	
<b>Complete at least 1 of the following:</b>				3
	AGR	360	Greenhouse Production & Management	
	AGR	461	Plant Propagation	
	AGR	542	Plant Breeding I	
	AGR	549	Weeds & Their Control	
<b>Complete at least 1 of the following:</b>				3
	AGR	372	Agricultural Metal Processes	
	AGR	379	Field Equipment Technology & Management	
	AGR	470	Soil & Water Engineering	
	AGR	477	Agriculture Power Units	
	AGR	576	Agricultural Electrification	
	AGR	577	Tractor Power Principles	

**Agricultural Technology Emphasis**

	AGR	313	Livestock Production Management Systems	3
	AGR	439	Software Applications for Agriculture	3
	AGR	471	Applications in Precision Agriculture	3
	AGR	499	Leadership/Prof Development Seminar II	1
	AGR	537	Seminar in Ag Business Systems	2
	AGR	539	Adv Computer Apps for Agriculture	3
	AGR	547	Crop Management	3
<b>Complete at least 1 of the following:</b>				2-3
	AGR	538	Seminar in Production Ag Systems	2
	AGR	571	Advanced Precision Agriculture	3

**Minimum Credential Hours: 120**