



MURRAY STATE
UNIVERSITY

Hutson School of Agriculture

Bachelor of Science in Agriculture Agriscience Technology

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 fields. Some of the areas include agronomy, animal science, equine science, horticulture, engineering/mechanization, communication, precision agriculture, veterinary medicine, education, and business. Job opportunities are numerous, and agriculture graduates are in high demand. A brief list of agricultural positions might include plant breeder, soil scientist, soil conservationist, extension agent, sales representative, banker, teacher, nursery specialist, landscape designer, greenhouse manager, farmer, animal 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

- Alpha Gamma Rho
- Animal Welfare Club
- Agriculture Ambassadors
- Agribusiness Club
- Agricultural Engineering Technology Club
- Agronomy Club
- Block and Bridle
- Christian Veterinary Fellowship
- Collegiate FFA
- Collegiate Farm Bureau
- Collegiate 4-H
- Dressage Club
- Equestrian Team
- Horseman's Association
- Horticulture Club
- Livestock Judging Team
- Rodeo Team
- Soil and Crop Judging Teams
- Sigma Alpha
- Swine Club
- Veterinary Technology/Pre-Vet Club

Facilities

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

The equine, beef, swine, small animal, and aquaculture facilities are a part of the farm-laboratory complex. The Wm. Bill Cherry Agricultural Exposition Center is utilized for field days, judging contests, clinics, and numerous other activities.

Agriscience Technology Emphases

Within the agriscience technology program, students will choose one of the following emphases requiring 21 focus hours.

- Agricultural Technology Emphasis
- Communications Emphasis
- Emerging Technology Emphasis
- Extension/Leadership Emphasis
- Horticulture Science 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



Murray State University Hutson School of Agriculture
Agriscience Technology Curriculum 2025-2026

University Studies - Foundations 33-34 Hrs				
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
	BIO	101	Biological Concepts AND	
	BIO	100	Intro to Biology Lab	
Quantitative Reasoning				3 to 4
	MAT	140	College Algebra OR	
	MAT	117	Mathematical Concepts	
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
	AGR	200	Cultural & Intl. Ag Perspectives OR	
	AGR	353	World, Food, Agriculture & Society	
BS Science/Mathematics Requirement				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 21 Hrs				
	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 21 Hrs				
	AGR	370	Intro to Precision Agriculture	3
	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 21 Hrs				
	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				21 Hrs
	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-26 Hrs				
Cat.	Dept.	No.	Description	Hrs.
	AGR	100T	Transitions	1
	AGR	100	Animal Science	3
	AGR	330	Principles of Agribusiness Management OR	3
	AGR	333	Record Keeping & Analysis for Agribusiness	
	AGR	133	Field Applications for Ag	2
	AGR	140	Plant Science	3
	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	2
	AGR	499	Leadership/Prof Development Sem II	

Agriscience Technology Track Courses-24 Hrs				
	AGR	377	Agriculture Safety	3
	AGR	334	Entrepreneurship in Agribusiness	3
	AGR		Electives	6
Complete at least 1 of the following:				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	
Complete at least 1 of the following:				3
	AGR	336	Agricultural Commodity Marketing	
	AGR	333	Agribusiness Records & Analysis	
	AGR	337	Agricultural Sales & Merchandising	
Complete at least 1 of the following:				3
	AGR	360	Greenhouse Production & Management	
	AGR	461	Plant Propagation	
	AGR	542	Plant Breeding I	
	AGR	549	Weeds & Their Control	
Complete at least 1 of the following:				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 20-21 Hrs				
	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
Complete at least 1 of the following:				2-3
	AGR	538	Seminar in Production Ag Systems	2
	AGR	571	Advanced Precision Agriculture	3

Horticulture Science Emphasis 19 Hrs				
	AGR	262	Specialty Crop Production	3
	AGR	363	Landscape Plant Material	4
	AGR	360	Greenhouse Production and Management	3
	AGR	361	Horticulture and Greenhouse Management Practicum	3
	AGR	362	Floral Design	3
	AGR	367	Residential Landscape Design	3

Minimum Credential Hours: 120