



MURRAY STATE
UNIVERSITY

Hutson School of Agriculture

Bachelor of Science in Agriculture Crop and Soil Management

Offering career preparation in the development and practical application of plant and soil science to produce abundant, high-quality food, feed, and fiber crops. Crop and soil management is related to genetics, breeding, and physiology. It involves aspects of soil use, including reclamation, waste disposal, waterways, and construction.

Career Outlook

Based on a recent U.S. Department of Agriculture survey, there will be a shortfall of agriculture graduates necessary for future growth in agricultural productivity. Recent advances in precision agriculture and the advent of genetically engineered crops are providing new career options for agronomists. There are new opportunities for those becoming Certified Crop Advisors (CCA). The variety of jobs for agronomics is extremely diverse. Typical career occupations include extension agent, grain buyer, soil scientist-USDA, soil conservationist-USDA, tobacco market specialist, grain grader, and seed analyst. Some agronomists serve as farm credit specialists with banks and farm lending agencies.

Organizations

The Agronomy Club is organized to support students in crop and soil management through field trips and other club activities. Some of the club activities include off-campus trips, guest speakers, and the sale and distribution of crop, weed, and seed identification sets. The Agronomy Club also sponsors the MSU Soil Judging Team and Collegiate Crops Contest Test.

Facilities

Hutson School of Agriculture facilities include classrooms, laboratories, and offices housed in the Oakley Applied Science Building; the A. Carman Animal Technology Center; the E.B. Howton Agricultural Engineering Building; the Agricultural Engineering Instructional Facility/Farm Shop; and the Rudolph Equine Education Center.

The university also owns five farm complexes. The West Farm Complex, The North Farm Complex, and The Pullen Farm Complex are all located within a mile of MSU's main campus. These complexes are utilized for classes, contests, field days, judging contests, clinics, and numerous agriculture activities.

The Pullen Farm Complex is of particular interest to students studying crop and soil management, and horticulture. The farm was bequeathed to the university by the late Mrs. Mabel Garrett Pullen. It is used as an agronomy and horticulture research and teaching center. This center allows students to get practical experience and provides a unique opportunity to expand the study of plant sciences at MSU.

The Garrett Farm and Eagle Rest Farm are other farm complexes within the Hutson School of Agriculture. The Garrett Farm is around 5 miles from the main campus and is an agronomy research facility where field crops are grown each year. Eagle Rest Farm is located in Ballard County, Kentucky, and is a multi-use farm complex.

Visit Our Website

www.murraystate.edu/agr



For More Information Contact

**Recruitment Coordinator
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Hutson School of Agriculture
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Murray State University Hutson School of Agriculture
Crop and Soil Management Curriculum 2025-2026

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
	CHE	105	Introductory Chemistry	
Quantitative Reasoning				4
	MAT	140	College Algebra	
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
	EES	103	Saving Planet Earth OR	
	EES	199	Earth Science	

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Required Support Courses (Complete 1 of the following Emphases)

Practicum Emphasis

	AGR	498	Agronomy Practicum	12
Complete at least 1 of the following:				3
	AGR	330	Principles of Agribusiness Management	
	AGR	433	Farm Management	
	AGR	571	Advanced Precision Agriculture	

Research Emphasis

	AGR	328	Statistics for Food and Agriculture	3
	AGR	571	Advanced Precision Agriculture	3
	BIO	115	The Cellular Basis of Life	3
	Agronomy Advisor Approved Research Elective			3
	Complete at least 1 of the following:			3
	AGR	488	Cooperative Education/Internship	
	AGR	436	Undergraduate Research Experience	

Minimum Credential Hours: 120

Agriculture Core Courses				
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	
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Agronomy Track Courses				
	AGR	240	Crop Science	3
	AGR	346	Soil Science Practicum	3
	AGR	378	Ag Environmental Mgmt Systems	3
	AGR	455	Soil Management	3
	AGR	470	Soil & Water Engineering	3
	AGR	471	Applications in Precision Agriculture	3
	AGR	542	Plant Breeding I	3
	AGR	546	Integrated Pest Management	3
	AGR	547	Crop Management	3
	AGR	549	Weeds & Their Control	3
	BIO	222	Botany: Plant Form & Function	4
	CHE	210	Brief Organic Chemistry	3
	CHE	215	Brief Organic Chemistry Laboratory	1

Sales/ Production Emphasis

Complete at least 3 of the following:				9
	AGR	130	Agricultural Economics	
	AGR	330	Principles of Agribusiness Management	
	AGR	333	Record Keeping & Analysis for Agribusiness	
	AGR	334	Entrepreneurship in Agribusiness	
	AGR	433	Farm Management	
	AGR	490	Agricultural Supply Chain Management	
Complete at least 1 of the following:				3
	AGR	488	Cooperative Education/Internship	
	AGR	436	Undergraduate Research Experience	
Complete at least 1 of the following:				3
	AGR	336	Agricultural Commodity Marketing	
	AGR	337	Agricultural Sales & Merchandising	