

## **Bachelor of Science in Agriculture Agronomy**

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Offering career preparation in the development and practical application of plant and soil science to produce abundant, high-quality food, feed and fiber crops. Agronomy is related to genetics, breeding, physiology, and crop and soil management. 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 agronomy 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 south wing of the Oakley Applied Science Building, the A. Carman Animal Health Technology Center, the E.B. Howton Agricultural Engineering Building, the Agricultural Engineering Instructional Facility/Farm Shop and the Equine Instructional Facility.

The university also owns four 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 agronomy 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.

Additionally, The Garrett Farm is currently being developed into another agronomy research facility to benefit Hutson School of Agriculture students.

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

### **For More Information Contact**

**Recruitment Coordinator**  
**Murray State University**  
**Hutson School of Agriculture**  
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**Murray State University Hutson School of Agriculture  
Agronomy Curriculum 2022-2023**

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	222	Botany: Plant Form & Function	
<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 <b>OR</b>	
	AGR	353	World, Food, Agriculture & Society	
<b>BS Science/Mathematics Requirement</b>				4
	CHE	105	Introductory Chemistry	

Agriculture Core Courses				
Cat.	Dept.	No.	Description	Hrs.
	AGR	100T	Transitions	1
	AGR	100	Animal Science	3
	AGR	130	Agricultural Economics	3
	AGR	133	Field Applications for Ag	2
	AGR	160	Horticultural Science <b>OR</b>	3
	AGR	240	Crop Science	
	AGR	170	Intro to Ag Systems Tech	3
	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 <b>OR</b>	1
	AGR	499	Leadership/Prof Development Sem II	
	AGR	599	Ag Senior Capstone	1
Agronomy Track Courses				
	AGR	346	Soil Science Practicum	3
	AGR	378	Ag Environmental Mgmt Systems	3
	AGR	455	Soil Management	
	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
	CHE	210	Brief Organic Chemistry	3
	CHE	215	Brief Organic Chemistry Laboratory	1

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

**Practicum Emphasis**

	AGR	498	Agronomy Practicum	12
<b>Complete at least 1 of the following:</b>				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
<b>Complete at least 1 of the following:</b>				3
	AGR	488	Cooperative Education/Internship	
	AGR	436	Undergraduate Research Experience	

**Sales/ Production Emphasis**

	AGR	330	Principles of Agribusiness Management	3
	AGR	333	Agribusiness Records & Analysis	3
	AGR	433	Farm Management	3
<b>Complete at least 1 of the following:</b>				3
	AGR	488	Cooperative Education/Internship	
	AGR	436	Undergraduate Research Experience	
<b>Complete at least 1 of the following:</b>				3
	AGR	336	Agricultural Commodity Marketing	
	AGR	337	Agricultural Sales & Merchandising	

**Minimum Credential Hours: 120**