

## **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  
2020-2021 CATALOG**

**GENERAL EDUCATION/UNIVERSITY STUDIES COURSES**

Dept.	No.	Description	Hrs.	Gr.
<b>ORAL AND WRITTEN COMMUNICATIONS</b>				<b>7 HRS</b>
ENG	105	Critical Reading, Writing & Inquiry	4	
COM	161	Intro. to Public Speaking	3	
<b>SCIENTIFIC INQUIRY, METHODOLOGIES</b>				<b>12 HRS</b>
BIO	222	Botany	4	
CHE	105	Intro. Chemistry	4	
MAT	140	College Algebra	4	
<b>WORLD'S HISTORICAL, LITERARY...</b>				<b>6 HRS</b>
CIV	201	World Civilizations I	3	
HUM	211	Western Humanities Tradition	3	
<b>GLOBAL AWARENESS</b>				<b>3 HRS</b>
<b>Select One of the Following Courses</b>				
AGR	200	International Ag Experience	3	
AGR	353	World Food, Ag & Society	3	
SPA	106	Basic Spanish & Culture for Ag	3	
<b>SOCIAL AND 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>8 HRS</b>
CHE	210	Brief Organic Chemistry	3	
CHE	215	Organic Chemistry Lab	1	
EES	199	Earth Science	4	
<b>42 HOURS OF UNIVERSITY STUDIES</b>				

**AGRICULTURE CURRICULUM COURSES**

Dept.	No.	Description	Hrs.	Gr.
<b>AGRICULTURE CORE COURSES</b>				<b>26 HRS</b>
AGR	100T	Transitions	1	
AGR	100	Animal Science	3	
AGR	130	Ag Economics	3	
AGR	133	Field Applications for Ag	2	
AGR	160	Horticultural Science <b>OR</b>		
AGR	240	Crop Science (preferred)	3	
AGR	170	Intro. to Ag Systems Tech	3	
AGR	199	Contemporary Issues in Ag	3	
AGR	339	Computer Apps 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**

Dept.	No.	Description	Hrs.	Gr.
<b>AGRONOMY OPTION COURSES</b>				<b>25 HRS</b>
AGR	346	Soil Science Lab	1	
AGR	378	Ag Environment Mgt Syst	3	
AGR	455	Soil Management	3	
AGR	470	Soil & Water Engineering	3	
AGR	471	App. To Precision Ag	3	
AGR	542	Plant Breeding I	3	
AGR	546	Integrated Pest Mgt	3	
AGR	547	Crop Management	3	
AGR	549	Weeds & Their Control	3	
<b>REQUIRED SUPPORT COURSES</b>				<b>15 HRS</b>
<b>SELECT ONE EMPHASIS LISTED BELOW</b>				
<b>PRACTICUM EMPHASIS</b>				<b>15 HRS</b>
AGR	498	Agronomy Practicum	12	
<b>Select One of the Following Courses</b>				
AGR	330	Principles of Agribusiness Management		
AGR	433	Farm Management		
AGR	571	Advanced Precision Ag	3	
<b>SALES/PRODUCTION EMPHASIS</b>				<b>15 HRS</b>
AGR	330	Principles of Agribusiness Management	3	
AGR	433	Farm Management	3	
AGR	333	Agribusiness Records & Analysis	3	
AGR	336	Ag Commodity Marketing <b>OR</b>		
AGR	337	Ag Sales & Merchandising	3	
Agronomy Advisor Approved Elective:			3	
<b>RESEARCH EMPHASIS</b>				<b>15 HRS</b>
AGR	328	Stats for Food & Ag	3	
AGR	571	Advanced Precision Ag	3	
BIO	300	Intro to Microbiology	4	
Agronomy Advisor Approved Research Electives:			5	
<b>UNRESTRICTED ELECTIVES</b>				<b>12 HRS</b>