MURRAY STATE UNIVERSITY

Hutson School of Agriculture

Bachelor of Science in Agriculture
Agricultural Systems Technology

Career Outlook

The opportunities in agricultural systems technology are diverse and challenging. Skilled graduates are needed in areas of work related to agricultural structures, electronics/electrical power, precision agriculture/GPS, agricultural power, metal process, agricultural safety and food engineering/processing. A person with a degree in agricultural systems technology may be involved in one of a great number of agricultural careers, such as working for an agricultural equipment corporation, managing a machinery dealership, serving as a sales representative for an irrigation equipment company or as a farm manager.

Each year the agriculture industry is becoming more technologically advanced. This creates a need for trained specialists to manage agricultural systems. This field of study is geared toward a student with an inquisitive mind that enjoys solving problems and testing new ideas.

Academic Highlights

The curriculum in Agricultural Systems Technology teaches the mechanical and physical principles that relate to the design, operation, maintenance and management of systems used in agriculture. A balanced selection of courses such as agricultural processing systems, agricultural buildings and construction, agricultural power systems, agriculture safety, agricultural electrification systems, precision agriculture/GPS and soil and water engineering incorporate theory and hands-on training that will permit graduates to enter into satisfying and rewarding careers.

Visit Our Website
www.murraystate.edu/agr

Facilities

Agricultural Systems Technology facilities include classrooms, laboratories, a state-of-the-art computer lab and offices housed in the south wing of Oakley Applied Science Building, the E.B. Howton Agricultural Systems Technology Building and the West Farm Agricultural Systems Technology Facility.

Hutson School of Agriculture has four farm complexes located within a mile of the main campus. These complexes include three greenhouses, agronomy plots, the Beef Complex, the Wm. Bill Cherry Agricultural Exposition Center and the Equine Center. These facilities are utilized for classes, contests, field days, judging contests, clinics, agritourism events and numerous agricultural activities.

Organizations

Agriculture Engineering Technology Club

- The club's mission is to promote the growth and science of Agricultural Systems Technology through fellowship among members with kindred interests.
- Furnishes career contacts for agricultural systems technology students.
- Helps to develop new interests and improve agricultural instruction.
- Promotes the Hutson School of Agriculture at Murray State University.

For More Information Contact

Recruitment Coordinator
Murray State University
Hutson School of Agriculture
(270) 809-3329
msu.ag@murraystate.edu

MURRAY STATE UNIVERSITY
HUTSON SCHOOL OF AGRICULTURE
AGRICULTURAL SYSTEMS TECHNOLOGY CURRICULUM
2014-2015 CATALOG

GENERAL EDUCATION/UNIVERSITY STUDIES COURSES

Dept.	No.	Description	Hrs.	Gr.
ORAL AND WRITTEN COMMUNICATION				**7 HRS**
ENG	105	Critical Reading, Writing & Inquiry	4	
COM	161	Intro. to Public Speaking	3	
SCI. INQUIRY, METHODS, QUANT. SKILLS				**12/13 HRS**
MAT MAT	130 140	Technical Math I **OR** College Algebra	5 4	
CHE	105	Intro. to Chemistry I	4	
BIO	101	Biological Concepts	4	
WORLD HISTORICAL LIT. AND PHILOSOPHY				**6 HRS**
CIV	201	World Civilizations I	3	
HUM	211	Western Humanities Tradition	3	
GLOBAL AWARENESS AND CULT. DIVERSITY				**3 HRS**
Select One of the Following Courses				
AGR AGR SPA	200 353 106	International Ag Experience World, Food & Ag Spanish for the Ag Industry	3	
SOCIAL AND SELF AWARENESS				**6 HRS**
AGR	199	Contemporary Issues in Ag	3	
		Elective	3	
UNIVERSITY STUDIES ELECTIVES				**6 HRS**
GSC PHY CHE CHE	199 130 210 215	Earth Science **OR** General Physics **OR** Brief Organic Chem **AND** Organic Chem Lab	4	
		Electives	2	
41 HOURS OF UNIVERSITY STUDIES				

AGRICULTURE CURRICULUM COURSES

Dept.	No.	Description	Hrs.	Gr.
AGRICULTURE CORE COURSES				**26 HRS**
AGR	100T	Transitions (Freshmen Orientation)	1	
AGR	100	Animal Science	3	
AGR	130	Intro. to Agribusiness	3	
AGR	133	Field Applications for Ag	2	
AGR AGR	160 240	Horticultural Science **OR** Crop Science	3	
AGR	170	Intro. to Ag Systems Tech	3	
AGR	199	Contemporary Issues in Ag	3	
AGR	339	Computer Applications for Ag	3	
AGR	345	Soil Science (formerly AGR 250)	3	
AGR	399	Professional Development Seminar I	1	
AGR	599	Ag Senior Capstone	1	
AG SYSTEMS TECH. OPTION COURSES				**24 HRS**
AGR	371	Ag Bldg & Construction	3	
AGR	372	Ag Metal Processes	3	
AGR	377	Ag Safety	3	
AGR AGR	477 577	Ag Power Units **OR** Tractor Power Principles	3	
Approved Ag Systems Tech. Electives*			9	
AGR Electives			3	
REQUIRED SUPPORT COURSES				**6 HRS**
AGR	471	App. In Precision Ag	3	
AGR	488	Coop Ed/Internship	3	
OR WITH ADVISOR'S APPROVAL				
AGR	543	Records Mgt & Reg Issues	3	
AGR	571	Adv. Precision Ag	3	
AGR	489	Coop Ed/Internship	3	
ITD	102	CAD Applications	3	
ITD	104	CAD App & Design Comm	4	
ITD	330	Machine Tool Processes	4	
TSM	110	Electrical Systems I	4	
UNRESTRICTED ELECTIVES				**23 HRS**

Approved Ag Systems Technology Electives*

AGR 379 Field Equipment Technology Management
AGR 470 Soil and Water Engineering
AGR 471 Applications in Precision Agriculture
AGR 488 Cooperative Education/Internship
AGR 489 Cooperative Education/Internship
AGR 551 Selected Studies in Agriculture
AGR 570 Ag Systems Technology Lab Management
AGR 571 Advanced Precision Agriculture
AGR 572 Advanced Metal Work
AGR 573 Agriculture Processing Systems
AGR 574 Agriculture Irrigation and Water
AGR 575 Combine and Grain Handling Systems
AGR 576 Agriculture Electrification Systems
AGR 578 Research and Development of Agriculture Tractors and Equipment