

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
2018-2019 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 | |
| SCL. INQUIRY, METHODS, QUANT. SKILLS | | | | 12/13 HRS |
| MAT | 130 | Technical Math I | 5 | OR |
| MAT | 140 | College Algebra | 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 | 200 | International Ag Experience | | |
| AGR | 353 | World, Food & Ag | | |
| SPA | 106 | 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 | 199 | Earth Science | | OR |
| PHY | 130 | General Physics | | OR |
| CHE | 210 | Brief Organic Chem | | AND |
| CHE | 215 | Organic Chem Lab | 4 | |
| | | Electives | 2 | |
| 40-41 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 | 160 | Horticultural Science | OR | |
| AGR | 240 | 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 | Prof Dev Seminar I | OR | 1 |
| AGR | 499 | Lead/Prof Dev Seminar II | 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 | 477 | Ag Power Units | OR | |
| AGR | 577 | 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 | 571 | Adv. Precision Ag | 3 | |
| AGR | 489 | Coop Ed/Internship | 3 | |
| ITD | 102 | CAD Applications | 3 | |
| ITD | 104 | CAD App & Design Comm | 4 | |
| ITD | 107 | Intro to Technical Drawing & Computer Aided Drafting | 4 | |
| ITD | 330 | Machine Tool Processes | 4 | |
| TSM | 110 | Electrical Systems I | 4 | |
| UNRESTRICTED ELECTIVES | | | | 23-24 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