



Agriculture Energy Systems Management Concentration

Agriculture B.S. Degree

Agriculture at EKU

The Agriculture Energy Systems Management curriculum provides career training to prepare you for a rewarding and successful career in Agriculture. A wide array of jobs are available both in offices and worksites where agricultural equipment and machinery are used – in private and commercial business, agriculture sales and finance, government agencies and vo-ag instruction. Our program stresses the latest technical information in the classroom with hands-on application through laboratories. Hands-on-training is reinforced through practicums at the university farms and through cooperative education. Our small class size promotes interaction between students and faculty. We are small enough to care for you as an individual but large enough to provide every career opportunity.

Career Opportunities

The practical instruction and hands-on application enables you to be an immediate asset to employers. You will join the ranks of successful EKU graduates in areas such as retail store operation, agriculture sales, farm management, agriculture finance and banking, vocational agriculture instruction, extension and 4-H agents, government agency employees, and pursuing advanced degrees. The United States Department of Agriculture predicts a shortfall of graduates in these areas. Potential job opportunities with a B.S. in Agriculture, Agriculture Energy Systems Management Concentration include Agribusiness Service Manager and Agribusiness Service Sales with salaries stating around \$35,000 -\$45,000.

- Precision Agriculture Specialist- Use and evaluation of the latest technologies in agriculture including drones and monitors
- Agricultural technologist –Use and Evaluate equipment and machinery used in agro-forestry production
- Agribusiness Service Manager - Agricultural business management, including sales and marketing.
- Agribusiness Service Sales - Sells to retail customers, keeps records of inventory, purchases, sells and demonstrates merchandise to potential customers.

Philosophy

The Department of Agriculture blends scientific theory with practical application and hands-on experiences. Current concepts and theories are presented in the classroom and then applied in the laboratory with the faculty member as the laboratory supervisor using a hands-on approach. Practicum classes at the University facilities and through cooperative education are further utilized to reinforce the practical application of scientific theories. Professors are experienced, enthusiastic, and passionate about providing students the skills necessary to succeed in the ever-changing 21st Century environment.

Department Facilities & Student Organizations

The Agriculture Program at EKU is supported by excellent classroom laboratories and facilities at the A.B. Carter Building. A modern computer laboratory, ag mechanics shop, and a plant science-biotechnology laboratory equipped for research and cell cloning are also available. We operate a 720-acre commercial farm that is modern and includes an agriculture mechanics shop and an onsite classroom. Agriculture enterprises include an 80-sow farrow to finish swine operation, a 40-ewe flock of sheep, a 140-beef cow herd, a 400-500 beef backgrounding operation, a 50-cow registered Holstein dairy herd, a crop enterprise to produce the forage and grain for the livestock. Students have the opportunity to develop their extracurricular leadership skills through the Agriculture Club, Pre-Vet Club, Colonel Agronomy Club, and DTA, an agricultural honorary society.

For More Information

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Suggested Curriculum Guide for Agriculture Energy Systems Management Concentration

Freshman (1st Semester) 14 hrs

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- BTO 100** Orientation (1 hr)
- AGR 125 Principles of Animal Science
- AGR 126 Animal Science Lab (1 hr)
- AGR 115 Agricultural Equipment (2 hrs)
- E-2 MAT 105 or Higher Mathematics
- E-4A BIO 111 or 112 Biology (4 hrs)

Sophomore (1st Semester) 14 hrs

- E-4B CHE 101 Chemistry
- E-4B CHE 101L Chemistry Lab (1 hr)
- E-5B ECO 120 Economics
- E-1B ENG 102 Composition II
- AGR 304 Pest Mgmt (4 hrs)

Junior (1st Semester) 15 hrs

- AGR 305 Professional Skills Seminar (1 hr)
- E-6 Diversity (3 hrs)
- AGR 310 Ag Business Records
- AGR 340 Conservation of Ag Resources
- AGR or OHO Experiential learning (2 hr)
- Free Electives (3 hrs)

Senior (1st Semester) 15 hrs

- AGR 383 Diesel Power
- GEO 456 Remote Sensing
- EET 257 Electronics
- AGR 362 Hydraulics (2 hrs)
- AGR or OHO Experiential learning (1 hr)
- AGR 570 Adv Ag tech

Freshman (2nd Semester) 16 hrs

- AGR 130 Principles of Agronomy
- AGR 131 Agronomy Lab (1 hr)
- E-1A ENG 101 Composition
- AGR 213 Agricultural Mechanics
- CIS 212 or INF 104
- E-5A Historical Perspective (3 hrs)

Sophomore (2nd Semester) 16 hrs

- AGR 215 Soils
- AGR 216 Soils Lab (1 hr)
- AGR 308 Agricultural Economics
- E-3A Arts (3 hrs)
- E-1C CMS 100 or 210 Communications
- E-3B Humanities-Writing Intensive (3 hrs)

Junior (2nd Semester) 15 hrs

- AGR 319 Energy Systems
- AGR 381 Ag Structures
- GEO 353 GIS
- E-6 Diversity (3 hrs)
- AGR/OHO Upper Division Elective (3 hrs)

Senior (2nd Semester) 15 hrs

- AGR 411 Senior Seminar (1 hr)
- AGR/OHO Upper Division Elective (3 hrs)
- AGR/OHO Upper Division Elective (3 hrs)
- BTS 400 College to Careers Seminar (0 credit)**
- AGR 410 Independent Study
- AGR 311 (2 hrs)
- ACCT Capstone

*A total of 42 credits including electives must be upper division (>300). **Course must be taken in semester indicated.

UNIVERSITY GRADUATION REQUIREMENTS

University Requirements	37 hrs
Orientation Course (1 hr) -waived for transfers with 30+ hrs.	
General Education (36 hrs) -see also supporting course requirements	
College Requirements:	
BTS 400 (CR only, no hrs).....	0 hr
Program Core Courses	31 hrs
AGR 115(2), 130, 131(1), 213, 215, 216(1), 304(4), 305(1), 308, 310, 319, 340, 411(1)	
Program Electives	15 hrs
Experiential learning. 3 hours from AGR 301, 302, 349, OHO 301,349;	
ACCT capstone. Select one course from AGR 499, 509, OHO 498, 499;	
Upper Division Electives in AGR and/or OHO ...9 hours	
Agricultural Energy Systems Management concentration	20 hrs
AGR 125, 126 (1), 311(2), 362(2), 381, 383, 410(3) and 570	
Supporting Course Requirement	14 hrs
EET 257, GEO 353 and 456, BIO 111 or 112 (counted in GE Element 4A) and CHE 101/101L (counted in GE Element 4B) and ECO 120 (counted in GE Element 5B) and CIS 212 or INF 104	
Free Electives	3 hrs
Total Curriculum Requirements	120 hrs