



# Animal Science Concentration

Agriculture B.S. Degree

## Agriculture at EKU

The Animal Science curriculum provides career training to prepare you for a rewarding and successful career in Agriculture. A wide array of jobs are available in government agencies, vo-ag instruction, private and commercial business, agriculture sales and finance. 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, Animal Science Concentration range from Agribusiness Service Manager to Pharmaceutical Sales with salaries starting from around \$32,000 and up.

- Dairy Herdsman - Management and planning of dairy enterprise
- Laboratory Technician - Assisting in the designing and implementing of research experiments/commercial laboratory technician
- Extension/4-H Agent - Develop local agriculture and youth programs
- Pharmaceutical Sales - Represent pharmaceutical companies to local agriculture stores and farmers
- Feed Sales Representative - Represent feed companies to local agriculture stores and farmers
- Genetics/AI - Work with farmers and AI organizations in promotion of purebred dairy industry
- Dairy Equipment Sales - Work with farmers in sales and maintenance of milking equipment
- Agribusiness Service Manager - Manages retail business involving sales of agricultural supplies; has responsibilities for all aspects of the business management
- Agribusiness Service Sales - Sells to retail customers; keeps records of inventory; purchases, sells and demonstrates merchandise to potential customers
- Bank and/or Loan Officer - Consults with loan applicants concerning their needs and ability to meet financial repayment schedules; evaluates and makes decisions about agricultural loan applications
- Farm Manager - Responsible for all decision-making related to the crop, animal, equipment, and labor needs of the farm; keeps records and evaluates farm financial progress
- Farm Credit Agency - Helps farmers assess their needs and repayment abilities for agricultural production enterprises

## 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 Animal Science Concentration

### Freshman (1<sup>st</sup> Semester) 14 hrs

**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 (1<sup>st</sup> Semester) 14 hrs

**Animal Science** Selection (3 hrs)  
**AGR 301** Ag Experience (1 hr)  
**E-4B CHE 101** Chemistry  
**E-4B CHE 101L** Chemistry Lab (1 hr)  
**E-5B ECO 120** Economics  
**E-1B ENG 102** Composition II

### Junior (1<sup>st</sup> Semester) 16 hrs

**AGR 340** Conservation of Ag Resources  
**AGR 304** Pest Management (4 hrs)  
**E-6** Diversity (3 hrs)  
**Free Electives** (3 hrs)  
**Animal Science** Selection (3 hrs)

### Senior (1<sup>st</sup> Semester) 15 hrs

**AGR/OHO** Upper-division Elective (3 hrs)  
**AGR 321** Feeds and Feeding (4 hrs)  
**AGR 310** Ag Business  
**AGR/OHO** Upper-division Elective (3 hrs)  
**AGR 301 or 349** Ag Experience (1 hr)  
**AGR 411** Senior Seminar (1 hr)

### Freshman (2<sup>nd</sup> Semester) 16 hrs

**AGR 130** Principles of Agronomy  
**AGR 131** Agronomy Lab (1 hr)  
**E-1A ENG 101** Composition  
**AGR 225** Livestock Evaluation  
**CIS 212 or INF 104**  
**E-5A** Historical Perspective (3 hrs)

### Sophomore (2<sup>nd</sup> Semester) 16 hrs

**AGR 215** Soils  
**AGR 216** Soils Lab (1 hr)  
**AGR 308** Ag Econ  
**AGR 213** Agricultural Mechanics  
**E-1C CMS 100 or 210** Communications  
**E-3B** Humanities-Writing Intensive (3 hrs)

### Junior (2<sup>nd</sup> Semester) 15 hrs

**E-3A** Arts (3 hrs)  
**Animal Production** Selection (4 hrs)  
**AGR 301 or 349** Ag Experience (1 hr)  
**AGR 305** Professional Skills Seminar (1 hr)  
**E-6** Diversity (3 hrs)  
**AGR 319** Energy Systems

### Senior (2<sup>nd</sup> Semester) 14 hrs

**AGR 499 or 509** Capstone  
**AGR/OHO** Upper-division Elective (4 hrs)  
**Animal Science** Selection (3 hrs)  
**Animal Production** (4 hrs)  
**BTS 400** College to Careers Seminar (0 credit)\*\*

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

## UNIVERSITY GRADUATION REQUIREMENTS

<b>University Requirements</b> .....	37 hrs
Orientation Course (1 hr) -waived for transfers with 30+ hrs.	
General Education (36 hrs) -see also supporting course requirements	
<b>College Requirements:</b>	
BTS 400 (CR only, no hrs).....	0 hr
<b>Program Core Courses</b> .....	31 hrs
AGR 115(2), 130, 131(1), 213, 215, 216(1), 304(4), 305(1), 308, 310, 319, 340, 411(1)	
<b>Program Electives</b> .....	15 hrs
<b>Experiential learning.</b> 3 hours from AGR 301, 302, 349, OHO 301,349;	
<b>ACCT capstone.</b> Select one course from AGR 499, 509, OHO 498, 499;	
<b>Upper Division Electives in AGR and/or OHO</b> ...9 hours	
<b>Animal Science concentration</b> .....	29 hrs
AGR 125, 126 (1), 225 and 321(4); select two of the following: AGR 326(4), 327(4), 328(4), 329(4), 332, 380(4); select three of the following: AGR 312(4), 373, 374, 375, 376, 377; and Upper Division electives in AGR and/or OHO (0-2 hours)	
<b>Supporting Course Requirement</b> .....	5 hrs
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	
<b>Free Electives</b> .....	3 hrs
<b>Total Curriculum Requirements</b> .....	<b>120 hrs</b>