



Department of Agriculture  
School of Applied Sciences and Technology  
College of Business & Technology (2018-19)

## A.A.S. in Agriculture

Ag Systems, Agribusiness, Livestock Concentrations

### Associate of Applied Science at EKU

With Concentrations in Agricultural Systems, Agribusiness, Livestock, Floriculture/Greenhouse, Landscape Horticulture, and Turfgrass, the curriculum provides career training to prepare you for a rewarding and successful career in Agriculture. And, you may count associate degree credits towards a bachelor's degree in the same area *with no loss of credit*.

A wide array of jobs are available in government agencies, 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 graduates to be an immediate asset to employers. As a graduate, you will join the ranks of successful EKU graduates in areas such as greenhouse and floriculture, horticultural sales, dairy management, agriculture systems, livestock production, landscaping and turf management, feed sales and manufacturing, assistant retail management, machinery sales and service, livestock management, field technicians, golf course management, and floral services. Another option is to work toward a four-year BS Degree after graduation - with no loss of credit. Many employment agencies are predicting a significant increase in employment opportunities for two-year graduates in the agriculture sciences.

### 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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**Typical sequence of courses required for an Associate of Applied Science Degree.**

Suggested elective courses for an associate of applied science degree: Forages, **AGR 216** Soils Laboratory, **AGR 250** Horse Production, **AGR 310** Agribusiness Management, **AGR 332** Poultry Production, **AGR 340** Conservation of Agricultural Resources, **AGR 345** Sustainable Agroecosystems, **AGR 349** Cooperative Education, **AGR 350** Agricultural Marketing, **AGR 373** Animal Diseases, **AGR 374** Livestock Genetics, **AGR 440** Agricultural Financing.

**AGRICULTURE SYSTEMS MANAGEMENT**

<u>First Semester (14 hrs)</u>	<u>Second Semester (16 hrs)</u>	<u>Third Semester (15 hrs)</u>	<u>Fourth Semester (16 hrs)</u>
<b>BTO 100</b> Orientation (1) <b>AGR 213</b> Ag Mechanics (3) <b>ENG 101</b> English Comp I (3) <b>AGR</b> Practicum (2) <b>MAT 105</b> Math (3) <b>AGR 115</b> Ag Equipment (2)	<b>AGR 210</b> Ag Math (2) <b>CHE 101+Lab/BIO 111/112</b> Chemistry/Biology (4) <b>ENG 102</b> English Comp II (3) <b>ECO 120</b> Economics (3) <b>AGR 130/131 or OHO 131/132</b> Agronomy/ Horticulture (4)	<b>AGR/OHO 304</b> Pest Mgt (4) <b>AGR 308</b> Agribusiness (3) <b>AGR 362</b> Hydraulics (2) <b>AGR 383</b> Diesel Systems (3) <b>AGR</b> Practicum (2) <b>AGR 301</b> Farm practicum (1)	<b>AGR 215/216</b> Soils (4) <b>AGR 305</b> Skills Seminar (1) <b>AGR 381</b> Ag Structures (3) <b>AGR</b> Elective (3) <b>AGR</b> Practicum (2) <b>E-3</b> Arts/Humanities (3)

Career Opportunities in Agriculture Systems Management:

- Machinery Dealer/ Parts Manager - Management of parts department for local AG equipment dealers
- Agricultural Equipment Dealer - Retail sales of farm machinery & consumer products to farm and urban customers
- Agricultural Equipment Service Representative - Assist dealers with management of sales, parts, service, and warranty problems
- Shop Supervisor - Supervise the maintenance and repair of farm machinery

**AGRIBUSINESS MANAGEMENT**

<u>First Semester (15 hrs)</u>	<u>Second Semester (16 hrs)</u>	<u>Third Semester (15 hrs)</u>	<u>Fourth Semester (16 hrs)</u>
<b>BTO 100</b> Orientation (1) <b>AGR</b> Practicum (2) <b>AGR 213</b> Ag Mechanics (3) <b>ENG 101</b> English Comp I (3) <b>MAT 105</b> Math (3) <b>AGR</b> Elective (3)	<b>AGR 210</b> Ag Math (2) <b>CHE 101+Lab/BIO 111/112</b> Chemistry/Biology (4) <b>ENG 102</b> English Comp II (3) <b>ECO 120</b> Economics (3) <b>AGR 130/131 or OHO 131/132</b> Agronomy/ Horticulture (4)	<b>AGR/OHO 304</b> Pest Mgt (4) <b>AGR 308</b> Agribusiness (3) <b>AGR 409</b> Ag Records (3) <b>AGR 440</b> Ag Financing (3) <b>AGR</b> Practicum (2)	<b>AGR 215/216</b> Soils (4) <b>AGR 305</b> Skills Seminar (1) <b>AGR 310</b> Ag Business (3) <b>AGR 350</b> Ag Marketing (3) <b>AGR</b> Practicum (2) <b>E-3</b> Arts/Humanities (3)

Career Opportunities in Agribusiness Management:

- Agribusiness Service Manager - Manages retail business involving sales of AG supplies and is responsible for all aspects of the business.
- 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.

**LIVESTOCK MANAGEMENT**

<u>First Semester (14 hrs)</u>	<u>Second Semester (16 hrs)</u>	<u>Third Semester (15 hrs)</u>	<u>Fourth Semester (17 hrs)</u>
<b>BTO 100</b> Orientation (1) <b>AGR 125</b> Animal Science (3) <b>AGR 126</b> Animal Sci Lab (1) <b>ENG 101</b> English Comp I (3) <b>MAT 105</b> Math (3) <b>AGR 213</b> Ag Mechanics (3)	<b>AGR 210</b> Ag Math (2) <b>CHE 101+Lab/BIO 111/112</b> Chemistry/Biology (4) <b>ENG 102</b> English Comp II (3) <b>ECO 120</b> Economics (3) <b>AGR 130/131</b> Agronomy (4)	<b>AGR 304</b> Pest Mgt (4) <b>AGR 308</b> Agribusiness (3) <b>AGR 321</b> Feeds & Feeding (4) <b>AGR</b> Practicum (3) <b>AGR 305</b> Skills Seminar (1)	<b>AGR 215/216</b> Soils (4) <b>AGR 326, 327, 328, 329, 332 or 380</b> (4) <b>AGR</b> Elective (3) <b>AGR</b> Practicum (3) <b>E-3</b> Arts/Humanities (3)

Career Opportunities in Livestock Management:

- Dairy Herdsperson - Oversee operation and management of dairy farm
- Livestock Herdsperson - Care and management of animals on a livestock farm
- Feed Company Representative - Represent feed companies to local livestock producers
- Service Representative - Supervision of contract producer in poultry and swine operations
- Dairy Equipment Sales and Service - Work in dairy equipment and supply store; install and evaluate milking equipment
- Artificial Breeding Representative - Sales of semen and breeding supplies to dairy farmers