



Fruit, Vegetable, Nursery and Greenhouse Production Concentration (Agriculture B.S. Degree)

The Fruit and Vegetable Production curriculum provides career training to prepare you for a rewarding and successful career. A wide array of jobs are available in private and commercial business, food systems, purchasing, sales, finance, extension, government agencies and education. Our program stresses new developments in Agri-tech in the classroom with practical application through laboratories. Hands-on-training is reinforced through on-campus practicums in the university greenhouses, nursery area, and food plots as well as our farmers market. Additional experience can be gained through off-campus internships. 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 employed in the fruit and vegetable industry, greenhouse production, sales professions, along with those who have started their own businesses. The United States Department of Agriculture predicts a shortfall of graduates in all areas of agriculture.

- **Commercial Vegetable Marketing Manager** - Plan and conduct product/package development. Work with outside Consultants and vendors to develop and design new products and packages
- **Laboratory Technician** - Assisting in the design and implementation of research experiments
- **Horticulturalist** - State, Federal, and private land manager
- **Extension/4-H Agent** - Develop local agriculture and youth programs
- **Horticultural Service Manager** - Manages retail business involving sales of agricultural supplies; has responsibilities for all aspects of business management
- **Production Supervisor** - Oversees the production of quality products to fulfill customer requirements

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 with the changing technology and environment of the future greenhouses.

Department Facilities & Student Organizations

The Horticulture Program at EKU is supported by excellent classroom laboratories and facilities at the A.B. Carter Building, including a modern computer laboratory, agriculture mechanics shop, hydraulic trainers, varying indoor and outdoor irrigation systems, greenhouses, fruit and vegetable gardens, landscape gardens and turf areas such as an on-campus golf hole complement and develop a student's horticulture understanding. Students have the opportunity to develop their extracurricular leadership skills through the Agriculture/Collegiate Farm Bureau Club, Block & Bridle Club, Delta Tau Alpha Agriculture Honor Society, Horticulture Club, Pre-Vet Club, and Sigma Alpha Sorority.

For More Information

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Department of Agriculture
College of Science, Technology, Engineering, and Math (2025-26)

Suggested Curriculum Guide for Fruit, Vegetable, Nursery and Greenhouse Production Concentration

Freshman (1st semester) 13 hrs

GSD 101	Foundations of Learning	3
AGR 115	Operation of Agricultural Equipment	3
AGR 130/131	Plant Science with Lab -OR-	4
OHO 131/132	Principles of Horticulture with Lab	
Gen. Ed. 1A (ENG 101)		3

Sophomore (1st semester) 16 hrs

AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
OHO 365	Plant ID I	3
^G ECO 120	Economic Reasoning and Issues	3
Gen. Ed. 3A (Arts)		3
Gen. Ed. 5A (History)		3

Junior (1st semester) 16 hrs

AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 310	Principles of Agribusiness Management	3
AGR 340	Conservation of Agricultural Resources	3
OHO 372	Horticulture Retail Technology	2
AGR/OHO	Upper Division Elective	3

Senior (1st semester) 15 hrs

AGR 411	Senior Seminar	1
AGR 416	Soil Fertility and Management	3
OHO 375	Post Harvest Management	3
AGR 301	Directed Work Experience -OR-	2
AGR 349	Applied Learning in Agriculture	
AGR/OHO	Upper Division Elective	3
Gen. Ed. 5B	Course 2	3

Freshman (2nd semester) 15 hrs

AGR 125	Principles of Animal Science	3
AGR 213	Principles of Ag Mechanics and Energy Sys	3
INF 104	Computer Lit and Software Appl -OR-	3
TEC 161	Computer Applications in Technology	
Gen. Ed. 1B (ENG 102)		3
Gen. Ed. 2 (Math)		3

Sophomore (2nd semester) 16 hrs

OHO 354	Horticulture Equipment and Irrigation	3
^G BIO	Cell and Molecular Biology -OR-	4
111/111L		
^G BIO 112/111L	Ecology and Evolution	
AGR 308	Agricultural Economics	3
Gen. Ed. 1C (Oral Communications)		3
Gen. Ed. 3B (Humanities) Course 1		3

Junior (2nd semester) 14 hrs

AGR 319	Renewable & Sustainable Energy Sys	3
AGR 404	Advanced Pest Management	3
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
AGR/OHO	Upper Division Elective	3
^G CHE 101	Introduction to Chemistry	3
CHE 101L	Introduction to Chemistry Lab	1

Senior (2nd semester) 15 hrs

OHO 388	Greenhouse Production	3
AGR 499	Ag Advocacy and Issues Capstone -OR-	3
AGR 509	Ag Research Methods and Interpretation	
AGR/OHO	Upper Division Elective	3
Gen. Ed. 3B	Course 2	3
Free Elective		3

^G Denotes that 3 credit hours from the course are/can be applied to fulfill Gen Ed. Requirements.

UNIVERSITY GRADUATION REQUIREMENTS

General Education	39 hours
Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)	36 hours
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	3 hours

MAJOR REQUIREMENTS

Core Courses.

AGR 125, AGR 130 and 131(1) or OHO 131 and 132(1), AGR 115, AGR 213, AGR 215, AGR 216(1), AGR 301 or AGR 349, AGR 304(4), AGR 305(1), AGR 308, AGR 310, AGR 319, AGR 340, AGR 411(1), AGR 499 or AGR 509, INF 104 or TEC 161.	46 hours
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Fruit, Vegetable, Nursery and Greenhouse Production Concentration Requirements.

AGR 404, AGR 416, OHO 354, OHO 365, OHO 372(2), OHO 375, OHO 388; Plus twelve hours selected from upper division AGR and/or OHO courses.	32 hours
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Supporting Course Requirements.

^G BIO 111 and 111L or ^G BIO 112 and 112L, ^G CHE 101 and 101L, ^G ECO 120.	0 hours
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Free Electives.....	3 hours
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Total Curriculum Requirements

120 hours