



# Fruit, Vegetable, Nursery and Greenhouse Production Concentration

Agriculture B.S. Degree

## Horticulture at EKU

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, government agencies and vo-ag instruction. Our program stresses the latest technical information 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. 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. Starting salaries for graduates in this area are generally above \$30,000/yr.

- 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 the 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 in the ever-changing 21st Century environment.

## Department Facilities & Student Organizations

The Horticulture 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. Five greenhouses, landscape areas, a nursery, specimen areas and a shade house to provide hands-on training adjacent to the Carter Building. Students have the opportunity to develop their extracurricular leadership skills through the Horticulture Club, GCSAA Student Chapter and DTA, an agriculture/horticulture honorary society.

## For More Information

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

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

**BTO 100\*\*** Orientation (1 hr)  
**OHO 131 or AGR 130** Principles of Horticulture  
**OHO 132 or AGR 131** Horticulture 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

**AGR 215** Soils  
**AGR 216** Soils Lab (1 hr)  
**OHO 365** Plant ID  
**E-1B ENG 102** Composition II  
**E-4B CHE 101** Chemistry  
**E-4B CHE 101L** Chemistry Lab (1 hr)

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

**AGR 305** Professional Skills Seminar (1 hr)  
**E-6** Diversity (3 hrs)  
**OHO 301 or 349** Experiential Learning (1 hr)  
**OHO 372** Hort Ret Whlsl Mgmt (2 hrs)  
**AGR 340** Conservation of Ag Resources  
**E-6** Diversity (3 hrs)  
**Approved Electives** (3 hrs)

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

**AGR 310** Ag Business Mgmt  
**Approved Electives** (3 hrs)  
**AGR 319** Ag Energy Systems  
**AGR 416** Soil Mgmt  
**OHO 375** Post Harvest Tech

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

**E-1A ENG 101** Composition  
**CIS 212 or INF 104 or TEC 161**  
**E-5B ECO 120** Economics  
**AGR 213** Agricultural Mechanics  
**E-5A** Historical Perspective (3 hrs)

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

**AGR 308** Ag Econ  
**OHO 304** Pest Management (4 hrs)  
**E-1C CMS 100 or 210** Communications  
**E-3B** Humanities-Writing Intensive (3 hrs)  
**OHO 354** Hort Equip and Irrigation

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

**E-3A** Arts (3 hrs)  
**Free Electives** (3 hrs)  
**AGR 404** Adv Pest Mgmt  
**AGR/OHO** Upper Div Electives (3 hrs)  
**Approved Electives** (3 hrs)

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

**AGR 411** Senior Seminar (1 hr)  
**OHO 498, 499, or AGR 509** Capstone  
**OHO 388** Greenhouse Mgmt  
**AGR/OHO** Upper Div Electives (6 hrs)  
**OHO 301 or 349** Experiential Learning (2 hr)  
**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>Fruit, Vegetable, Nursery and Greenhouse Production concentration</b> .....	29 hrs
AGR 404, 416; OHO 354, 365, 372(2), 375, 388; and 9 hours advisor approved electives	
<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>