



Turfgrass and Landscape Concentration (Agriculture B.S. Degree)

Horticulture at EKU

The Turfgrass and Landscape curriculum provides career training to prepare you for a rewarding and successful career in a variety of fields in Horticulture. It encompasses residential and commercial landscape management, environmental protection, golf course and sports turf designs, and nursery management. A wide array of jobs are available in private and commercial business, horticulture sales, design, finance, extension, government agencies and career and technical instruction. Hands-on-training is reinforced through on-campus practicums in the university gardens, greenhouses, nursery, golf hole, and turf 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 enable you to be an immediate asset to employers. You will join the ranks of successful EKU graduates employed in the plant production industry, turf industry, greenhouse production, floriculture, landscape design, sales, and maintenance professions. The US Department of Agriculture predicts a shortfall of graduates in these areas.

- **Landscape Designer** - Design/sales in residential and small commercial landscapes
- **Garden Center Manager** - manage retail garden center outlet for private or chain store outlets
- **Landscape Maintenance Supervisor** - Manage landscape programs for residential or commercial landscapes
- **Golf Course Superintendent** - Managing golf course grounds
- **Turf Irrigation Specialist** - Sales and/or maintenance of irrigation systems
- **Golf Course Manager** - Managing pro shop and turfgrass areas
- **Turfgrass Sales** - Selling turf related supplies
- **Superintendent of Recreational Complex or Sports Turf** - Maintenance of fields, buildings, and landscapes
- **Institutional Grounds Supervisor** - Maintenance of all grounds areas
- **Lawn Care Company Manager** - Managing a lawn care branch
- **Turfgrass Specialist** - Turfgrass seed sales
- **Horticulture Sales** - Wholesale marketing of plants, equipment, or supplies to retail outlets
- **Greenhouse Manager** - Managing the production of nursery, floral and foliage crops
- **Greenhouse Sales** - Marketing of greenhouse structures and supplies

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 greenscapes.

Department Facilities & Student Organizations

The Horticulture Program at EKU is supported by excellent classroom laboratories and facilities surrounding 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, Sigma Alpha Sorority, and competition in the National Collegiate Landscape Competitions.

For More Information

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

Suggested Curriculum Guide for Turfgrass and Landscape Concentration

Freshman (1st semester) 13 hrs			Freshman (2nd semester) 15 hrs		
GSD 101	Foundations of Learning	3	AGR 125	Principles of Animal Science	3
AGR 130/131	Plant Science with Lab -OR-	4	AGR 213	Principles of Ag Mechanics and Energy Sys	3
OHO 131/132	Principles of Horticulture with Lab		INF 104	Computer Lit and Software Appl -OR-	3
AGR 115	Operation of Agricultural Equipment	3	TEC 161	Computer Applications in Technology	
Gen. Ed. 1A (ENG 101)		3	Gen. Ed. 1B (ENG 102)		3
			Gen. Ed. 2 (Math)		3
Sophomore (1st semester) 16 hrs			Sophomore (2nd semester) 16 hrs		
AGR 215	Principles of Soils	3	AGR 308	Agricultural Economics	3
AGR 216	Principles of Soils Laboratory	1	OHO 354	Horticulture Equipment and Irrigation	3
OHO 365	Plant ID I	3	ECO 120	Economic Reasoning and Issues	3
^G ECO 120	Economic Reasoning and Issues	3	^G BIO 111/111L	Cell and Molecular Biology -OR-	4
Gen. Ed. 3A (Arts)		3	^G BIO 112/111L	Ecology and Evolution	
Gen. Ed. 5A (History)		3	Gen. Ed. 1C (Oral Communications)		3
			Gen. Ed. 3B (Humanities) Course 1		3
Junior (1st semester) 15 hrs			Junior (2nd semester) 16 hrs		
AGR 304	Pest Management	4	AGR 319	Renewable & Sustainable Energy Sys	3
AGR 305	Professional Skills Seminar	1	AGR 404	Advanced Pest Management	3
AGR 310	Principles of Agribusiness Management	3	AGR/OHO Upper Division Elective		3
AGR 340	Conservation of Agricultural Resources	3	^G CHE 101	Introduction to Chemistry	3
AGR 301	Directed Work Experience -OR-	1	CHE 101L	Introduction to Chemistry Lab	1
AGR 349	Applied Learning in Agriculture		Gen. Ed. 3B Course 2		3
Gen. Ed. 5B Course 2		3			
Senior (1st semester) 15 hrs			Senior (2nd semester) 14 hrs		
AGR 416	Soil Fertility and Management	3	AGR 411	Senior Seminar	1
OHO 351	Turfgrass Management	4	OHO 370	Landscape Operations Management	3
AGR 301	Directed Work Experience -OR-	2	AGR 499	Ag Advocacy and Issues Capstone -OR-	3
AGR 349	Applied Learning in Agriculture		AGR 509	Ag Research Methods and Interpretation	
AGR/OHO Upper Division Elective		3	AGR/OHO Upper Division Elective		3
AGR/OHO Upper Division Elective		3	AGR/OHO Upper Division Elective		3
			Free Elective		1

^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**

Turfgrass and Landscape Concentration Requirements

AGR 404, AGR 416, OHO 351(4), OHO 354, OHO 365, OHO 370; Plus fifteen hours of advisor approved electives in AGR and/or OHO courses. **34 hours**

Supporting Course Requirements.

^GBIO 111 and 111L or ^GBIO 112 and 112L, ^GCHE 101 and 101L, ^GECO 120. **0 hours**

Free Electives.....1 hour

Total Curriculum Requirements

120 hours