

HORTICULTURE - B.A.H.

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Cultivate your green thumb with Kent State's horticulture program. Our Bachelor of Applied Horticulture degree provides hands-on training in plant cultivation, landscape design, and sustainable practices. With experienced faculty, cutting-edge facilities, and real-world experience, you'll gain the skills needed to succeed in the horticulture industry. Enroll now and bring your love of plants to life. Read more...

Contact Information

- Program Director: **Sheren Farag** | sfaragmo@kent.edu | 330-337-4270
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
 - In person
- **Location:**
 - Salem Campus

Example of Possible Careers and Salaries*

Farmers, ranchers, and other agricultural managers

- -6.5% decline
- 952,300 number of jobs
- \$68,090 potential earnings

First-line supervisors of construction trades and extraction workers

- 4.8% about as fast as the average
- 685,000 number of jobs
- \$67,840 potential earnings

Landscaping and groundskeeping workers

- 10.1% much faster than the average
- 1,188,000 number of jobs
- \$31,730 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics'

Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of English language proficiency unless they meet specific exceptions. For more information, visit the admissions website for international students.

Transfer Students: Students who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students. For more information, visit the admissions website for transfer students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Admission policies for undergraduate students may be found in the University Catalog.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
GEOG 16001	SOIL AND HORTICULTURAL MANAGEMENT	3
HORT 16001	INTRODUCTION TO HORTICULTURE	1
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
HORT 26016	IRRIGATION DESIGN AND MAINTENANCE	3
HORT 26018	LANDSCAPE CONSTRUCTION	3
HORT 36014	PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
HORT 36018	LANDSCAPE CONSTRUCTION II	3
HORT 36025	PROFESSIONAL PRACTICE IN HORTICULTURE (WIC) ¹	3
HORT 36046	LANDSCAPE DESIGN II	3
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	4
HORT 46014	GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT	3
Cooperative Work Experience, choose from the following:		6

HORT 26011	COOPERATIVE WORK EXPERIENCE IN TREE CARE	
HORT 26021	COOPERATIVE WORK EXPERIENCE IN LANDSCAPE MANAGEMENT	
HORT 26031	COOPERATIVE WORK EXPERIENCE IN TURF GRASS MANAGEMENT	
Technical Electives, choose from the following:		6
HORT 26010 & HORT 26012	ARBORICULTURE and URBAN FORESTRY	
HORT 26020 & HORT 26046	LANDSCAPE MANAGEMENT and LANDSCAPE DESIGN I	
HORT 26030 & HORT 26032	TURF GRASS MANAGEMENT and GOLF COURSE MANAGEMENT	
Major Electives, choose from the following:		6
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31080	GEOGRAPHY OF WINE	
HORT 36034	SPORTS TURF MANAGEMENT	
HORT 41096	INDIVIDUAL INVESTIGATION IN HORTICULTURE	
Additional Requirements (courses do not count in major GPA)		
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
BMRT 11000	INTRODUCTION TO BUSINESS	3
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
CHEM 10031	CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	1
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
GEOG 31070	POPULATION AND THE ENVIRONMENT	3
GEOG 37010	GEOGRAPHY OF OHIO	3
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
ESCI 41073	GEOLOGY OF OHIO	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
UC 10001	FLASHES 101	1
Foreign Language ²		4-8
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credits hour, including 39 upper-division credit hours) ³		5
Minimum Total Credit Hours:		120

¹ Minimum C grade is required to fulfill the writing-intensive requirement.

² Courses in one foreign language or American Sign Language in proficiency required. This requirement may be fulfilled by one of the following two conditions: (1) passing the first two semesters of any foreign language or American Sign Language, or (2) passing a foreign language course at the Elementary II level or above.

³ Students are recommended to complete another internship (e.g., HORT 46092).

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	BSCI 16001	HORTICULTURAL BOTANY	3
	CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
	CHEM 10031	CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	1
!	HORT 16001	INTRODUCTION TO HORTICULTURE	1
	UC 10001	FLASHES 101	1
Kent Core Requirement			3
Credit Hours			12
Semester Two			
	BMRT 11000	INTRODUCTION TO BUSINESS	3
	BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
	HORT 26018	LANDSCAPE CONSTRUCTION	3
!	Technical Elective		3
Kent Core Requirement			3
Credit Hours			15
First Summer Term			
Cooperative Work Experience			3
Credit Hours			3
Semester Three			
!	BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	GEOG 16001	SOIL AND HORTICULTURAL MANAGEMENT	3
!	HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
	HORT 26016	IRRIGATION DESIGN AND MAINTENANCE	3
Credit Hours			14
Semester Four			
!	BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
!	Major Elective		3
	ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
!	Technical Elective		3
Kent Core Requirement			3
Credit Hours			15
Second Summer Term			
	HORT 36018	LANDSCAPE CONSTRUCTION II	3
Cooperative Work Experience			3
Credit Hours			6
Semester Five			
	ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
	GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
	ESCI 41073	GEOLOGY OF OHIO	3
!	HORT 36025	PROFESSIONAL PRACTICE IN HORTICULTURE (WIC)	3
!	HORT 36046	LANDSCAPE DESIGN II	3
Credit Hours			15
Semester Six			
	PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
Kent Core Requirement			3

Kent Core Requirement	3
Kent Core Requirement	3
General Electives	3
Credit Hours	15
Third Summer Term	
HORT 36092 INTERNSHIP IN HORTICULTURE (ELR)	4
Credit Hours	4
Semester Seven	
GEOG 37010 GEOGRAPHY OF OHIO	3
! HORT 36014 PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
! Major Elective	3
Foreign Language	4
General Elective	2
Credit Hours	15
Semester Eight	
GEOG 31070 POPULATION AND THE ENVIRONMENT	3
! HORT 46014 GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT	3
Foreign Language	0-4
Credit Hours	6
Minimum Total Credit Hours:	120

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7

Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of plant characteristics, use, identification, and taxonomy.
2. Develop knowledge of the proper safety procedures and their application in the workplace.
3. Develop proper business protocol and specific horticulture concentration applications in the work place.
4. Interpret soil test results, analyze and determine the best corrective course of action.
5. Demonstrate knowledge of pest identification, taxonomy, integrated pest management, and control strategies.

Full Description

The Bachelor of Applied Horticulture degree provides students with the academic background and learning environment to further their education beyond an associate degree. The program aids students in the development of managerial expertise in areas of landscape design, turfgrass management and urban forestry, as well as landscape design, golf courses, sports turf management, arboriculture, environmental sustainability, plant propagation and greenhouse and nursery operations.