

# GREENHOUSE PRODUCTION - UNDERGRADUATE CERTIFICATE

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

## About This Program

The Greenhouse Production undergraduate certificate provides entry-level skills for those interested in employment or a career in the field. The curriculum provides basic principles of plant propagation in the greenhouse and nursery.

The certificate articulates well into Kent State's A.A.S. degree in Horticulture Technology and the Bachelor of Applied Horticulture degree.

## Contact Information

- **Sheren Farag** | sfaragmo@kent.edu | 330-337-4270
- Speak with an Advisor
  - Geauga Campus
  - Salem Campus
- Chat with an Admissions Counselor

## Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Geauga campus
  - Salem campus

## Examples of Possible Careers and Salaries\*

### Farmers, ranchers, and other agricultural managers

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

### Farmworkers and laborers, crop, nursery, and greenhouse

- 3.8% about as fast as the average
- 566,500 number of jobs
- \$28,660 potential earnings

### First-line supervisors of farming, fishing, and forestry workers

- -1.1% decline
- 53,200 number of jobs
- \$50,080 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.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

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.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
HORT 16022	GREENHOUSE STRATA	3
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
HORT 36014	PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	1
<b>Minimum Total Credit Hours:</b>		<b>19</b>

## Graduation Requirements

Minimum Certificate 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.

<b>Semester One</b>		<b>Credits</b>
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
HORT 16003	INTRODUCTION TO HORTICULTURE TECHNOLOGIES AND SENSORS	1
<b>Credit Hours</b>		<b>10</b>
<b>Semester Two</b>		
HORT 16022	GREENHOUSE STRATA	3
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2

HORT 36014	PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	1
<b>Credit Hours</b>		<b>9</b>
<b>Minimum Total Credit Hours:</b>		<b>19</b>

## Program Learning Outcomes

Graduates of this program will be able to:

1. Utilize the knowledge and skills needed to successfully manage greenhouse and nursery, including understanding business principles, plant selection and greenhouse production techniques.
2. Apply practical experience in plant identification, selection, propagation and greenhouse production to effectively cultivate and manage horticultural plants and products.