

HORTICULTURE CERTIFICATE

Program code: HORT-CC

Location: Naugatuck Valley

Program Description

The Horticulture Certificate program is designed to develop the skills and understanding needed for students to take responsible positions in grounds maintenance, tree and shrub nurseries, wholesale plant growing, landscaping, garden centers and retail greenhouses, golf courses, lawn care, and parks/recreation departments. The certificate will be awarded on completion of all courses and a cooperative work experience.

Learning Outcomes

Upon successful completion of all program requirements, graduates will be able to:

1. Identify common trees and shrubs, ground covers, various annuals, biennials, and perennials by botanical and common names, and describe the outstanding characteristics of each; summarize landscape, garden center and greenhouse uses; and know the cultural requirements of these plants.
2. Identify foliage plants commonly used indoors by botanical and common names, state distinguishing characteristics of each, and describe their use and culture in various indoor landscape areas.
3. Control the common weeds, insects, pests and diseases of ornamentals and turf.
4. Select the proper procedures, define the physiological basis, and describe practical applications of the reproduction of plants by asexual and sexual methods.
5. Describe proper design and operation of greenhouse environmental systems, and evaluate their advantages and disadvantages in commercial production.
6. Demonstrate a responsible attitude in relationships with employers, fellow employees, and toward the world of work.
7. Select appropriate techniques for the establishment and management of lawns and utility turf areas.
8. Manage the procedures used in landscape constructions and in the maintenance of small engines.
9. Design flower beds, and mixed borders; place trees and shrubs for a variety of gardens for both residential and commercial properties.
10. Access available resources to incorporate technological innovations.
11. Demonstrate those skills, abilities and values which allow a person to function as a free and responsible citizen.
12. Apply mathematics to calculating area, volume and application rates of fertilizers and pesticides.
13. Evaluate site conditions to design attractive, functional landscapes.

This Certificate is eligible for WIOA funding. The program prepares students to obtain their Home Improvement Contractor's License and Supervisory Pesticide Applicator's license. Additionally, graduates may go on to take the state DEEP Arboriculture Licensing Exam.

Certificate Requirements

Code	Title	Credits
Required Courses		
HORT 1001	Landscape Construction	4

HORT 1002	Woody Plants	3
HORT 1003	Herbaceous Plants	3
HORT 1004	Soil Systems	3
HORT 2002	Landscape Design 1	3
HORT 2007	Landscape Maintenance	3
HORT 2022	Greenhouse Management	4
HORT 2095	CWE Cooperative Work Experience	3

Elective(s)		
Choose one of the following:		3-4
HORT 1006	Fruit Production	
HORT 1007	Vegetable and Herb Production	
HORT 1200	Horticulture of Cannabis	
HORT 1015	Turf Management	
HORT 2004	Computers in Landscape Design	
HORT 2019	Arboriculture	
HORT 2024	Plant Propagation and Hybridization	
HORT 2050	Hydroponic Production	

Total Credits **29-30**

- Horticulture, AS
- Horticulture: Landscape Design Certificate