

Area of Study: Career and Technical
Pathway: Horticulture: Greenhouse Grow Operations
Type: Certificate
Curriculum Code: HRT.GGO.CERT (C401H)

(Total Program Credits: 16)

Designed for learners who wish to obtain gainful employment in a greenhouse growing operation that provides students with the training and necessary background to pursue a career in the cannabis industry, urban food production, and ornamental, tropical and herbaceous plant production. The Greenhouse Grow Operations Certificate is stackable into other Horticulture degrees and certificates allowing the opportunity to continue education in the discipline.

PROGRAM LEARNING OUTCOMES:

At the successful completion of the Greenhouse Grow Operations Certificate, the graduate will be able to:

- describe life cycles and hosts of insects;
- identify the types of insect prevention and controls including sustainable practices;
- appropriately select and prepare various types of pesticides;
- discuss the environmental impact of pesticides;
- manage pathogenic organisms with various means, including Integrated Pest Management;
- explain sexual and asexual reproduction;
- demonstrate plant hybridization;
- identify problems associated with plant growth and development and recommend treatments;
- select among various types of media, fertilizers, and growth hormones;
- apply the basic principles of propagation, sexually and asexually; and
- practice appropriate safety procedures and properly use tools associated with the horticulture industry.

(Fall 2021)

Program Map for Full-Time Students

Semester One: Fall	Category	Stackable Certificate	Stackable Certificate	Stackable Degree	Next Steps
		Pesticide Applicator	Grounds Maintenance	Horticulture AAS	
HRT 127 Entomology: Insects, People and Plants (3)	<i>Required</i>	✓	✓	✓	Meet with your Academic Advisor to create an academic plan.
HRT 128 Plant Pathology (3)	<i>Required</i>	✓	✓	✓	
					Explore stackable certificate(s)/degree(s) Pesticide Certificate Complete

6 Credit Hours

Semester Two: Spring	Category	Stackable Certificate	Stackable Certificate	Stackable Degree	Next Steps
		Pesticide Applicator	Grounds Maintenance	Horticulture AAS	
HRT 125 Plants and Society (4)	<i>Required</i>		✓	✓	Meet with your Academic Advisor to finalize your academic plan for graduation and register for stackable certificate/degree (option). Submit graduation petition by deadline (check for the specific date in catalog or syllabus.) Greenhouse Certificate Complete
HRT 126 Plant Propagation/Greenhouse Operations (3)	<i>Required</i>		✓	✓	
HRT 135 Soils and Fertilizers (3) Or Program Elective (3)	<i>Program Electives</i>		✓	✓	

10 Credit Hours

Program Electives (0-3)	
HRT 145 Deciduous Plant Identification (3)	
HRT 225 Evergreens, Vines, Groundcovers (3)	
HRT 261 Herbaceous Ornamental Plants (3)	
HRT 265 Vegetable and Herb Gardening (3)	
HRT 296 Special Topics in Horticulture (0.5 – 3)	
SAT 220 Designing Food Production systems in Urban Landscaping (3)	

See HRT course descriptions.

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