

# HORTICULTURE TECHNOLOGY - ADVANCED TECHNICAL CERTIFICATE (ATC)

Explore More About This Program: <https://cwi.edu/program/horticulture-technology>

## Certificate Quick Facts

- **Instructional School:** Math and Science
- **Department:** Agricultural Sciences
- **Program Code:** HRTC.ATC
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

## Certificate Requirements

Course	Course Title	Min Credits
<b>General Education Requirements</b>		
Complete one of the following courses to fulfill the GEM 1 or GEM 2 requirement:		
Select one of the following:		3
ENGL 101	Writing and Rhetoric I	
COMM 101	Fundamentals of Oral Communication	
Complete one of the following courses to fulfill the GEM 3 requirement:		
GEM 3 - Mathematical Ways of Knowing course		3
Complete the following course to fulfill the GEM 6 requirement:		
GEM 6 - Social & Behavioral Ways of Knowing course		3
<b>Major Requirements</b>		
HRTC 106	Annuals and Perennials	3
HRTC 107	Landscape Management: Maintenance	3
HRTC 108	Plant Propagation and Management	3
HRTC 110	Plant Science	3
HRTC 140	Soils and Plant Nutrition	3
HRTC 143	Horticulture Internship Seminar	1
HRTC 154	Landscape Management: QWEL	3
HRTC 155	Urban Agriculture	3
HRTC 203	Landscape Plants	3
HRTC 204	Landscape Management: Installation	3
HRTC 208	Greenhouse and Nursery Management	3
HRTC 220 or HRTC 257	Interior and Floral Plant Design Landscape Design II	3
HRTC 254	Landscape Management: Irrigation	3
HRTC 255	Integrated Pest Management	3
HRTC 256	Landscape Design I	3
HRTC 293	Horticulture Technology Internship	2

HRTC 295	Horticulture Business Management Practicum	3
<b>Minimum Credit Hours Required</b>		<b>57</b>

## Plan of Study Guide

The course sequence listed below is strongly recommended in order to complete your program requirements. Many Career and Technical Education (CTE) courses have prerequisites and/or corequisites that have been accounted for within this Plan of Study Guide. Please register for each semester as shown using the Student Planning tool in myCWI. Consult your Student Success Advisor for any questions regarding this course sequence plan.

### First Year

Fall	Credit Hours	
HRTC 106	Annuals and Perennials	3
HRTC 107	Landscape Management: Maintenance	3
HRTC 108	Plant Propagation and Management	3
HRTC 110	Plant Science	3
GEM 3 - Mathematical Ways of Knowing course		3
<b>Total Semester Credit Hours</b>		<b>15</b>

### Spring

Select one of the following (GEM 1 or GEM 2):		3
COMM 101	Fundamentals of Oral Communication	
ENGL 101	Writing and Rhetoric I	
HRTC 140	Soils and Plant Nutrition	3
HRTC 143	Horticulture Internship Seminar	1
HRTC 154	Landscape Management: QWEL	3
HRTC 155	Urban Agriculture	3
HRTC 293	Horticulture Technology Internship	2
<b>Total Semester Credit Hours</b>		<b>15</b>

### Second Year

Fall	Credit Hours	
HRTC 203	Landscape Plants	3
HRTC 204	Landscape Management: Installation	3
HRTC 255	Integrated Pest Management	3
HRTC 256	Landscape Design I	3
GEM 6 - Social & Behavioral Ways of Knowing course		3
<b>Total Semester Credit Hours</b>		<b>15</b>
Spring	Credit Hours	
HRTC 208	Greenhouse and Nursery Management	3
HRTC 220 or HRTC 257	Interior and Floral Plant Design or Landscape Design II	3
HRTC 254	Landscape Management: Irrigation	3
HRTC 295	Horticulture Business Management Practicum	3
<b>Total Semester Credit Hours</b>		<b>12</b>
<b>Minimum Credit Hours Required</b>		<b>57</b>

## Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency and comprehension of scientific principles, reasoning, and methods that comprise the disciplines of plant and soil science. Examples include, but are not limited to plant anatomy, plant physiology, plant pathology, entomology, weed science, and pesticide and fertilizer chemistry.
- Identify a broad spectrum of plant families, genus, and species including life cycles, zone hardiness, and cultural requirements and be able to articulate this information using proper plant nomenclature and terminologies to other employees, supervisors, and customers.
- Develop and use the durable skills provided through general education including effective oral and/or written communication skills.
- Perform and demonstrate accurate computation and mathematical skills required for industry tasks and calculations.
- Produce, grow, and/or install a wide variety of plant materials using best management practices for marketable, functional, and aesthetically pleasing designs.
- Obtain horticulture business management experience in a student's area of individual interest and expertise.