

# HORTICULTURE TECHNOLOGY, A.A.S. - HRT3

Students majoring in Horticulture Technology will learn the art, science, and technical skills necessary to:

1. Grow high-quality plants in greenhouses and gardens.
2. Design attractive, functional and sustainable landscapes.
3. Install whole landscapes including plants, irrigation systems, water features, landscape lighting, and hardscapes.
4. Maintain healthy and pristine lawns, golf courses, athletic fields, and landscapes.

Students will learn the scientific principles and practices of plant growth and development, soils, and pest and pathogen control. Additionally, students will gain substantial hands-on experience operating the latest tools, equipment, and technologies used in the horticulture industry by participating in laboratory activities and field trips.

Graduates of the two-year Horticulture Technology major may pursue supervisory, middle management or technical careers in garden centers, nurseries, greenhouses, landscape operations, golf courses, athletic fields, lawn care companies, tree care companies, and public and private gardens.

## Requirements

Courses	Course Title	Credit Hours
<b>General Education Courses</b>		
ART 101	Art History and Appreciation	3
	or Elective Humanities/Fine Arts ( <a href="https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/">https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/</a> )	
ENG 165	Professional Communications	3
	or ENG 101 English Composition I	
MAT 170	Algebra, Geometry and Trigonometry I	3
	or MAT 120 Probability and Statistics	
PSY 103	Human Relations	3
	or Elective Social/Behavioral Sciences ( <a href="https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/">https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/</a> )	
SPC 205	Public Speaking	3
Subtotal		15
<b>Required Core Subject Areas</b>		
HRT 107	Woody Ornamentals	2
HRT 108	Annuals and Perennials	2
HRT 110	Plant Form and Function	4
	or BIO 101 Biological Science I	
HRT 125	Soils	4
HRT 141	Horticulture Pest Control	4
Subtotal		16

### Other Courses Required for Graduation

CWE 101	Cooperative Work Experience Preparation	1
HRT 101	Introduction to Horticulture	3
HRT 104	Landscape Design and Implementation	3
HRT 121	Commercial Irrigation	3
HRT 130	Greenhouse Production	3
HRT 133	Basic Plant Propagation	2
HRT 153	Landscape Construction	3
HRT 200	Horticulture Business Management	3
HRT 212	Commercial Landscape Design	3
HRT 241	Turfgrass Management	3
HRT 254	Landscape Maintenance	2
HRT 255	Urban Tree Care	3
Select one of the following:		3
MGT 120	Small Business Management	
ACC 101	Accounting Principles I	
BUS 101	Introduction to Business	
Subtotal		35
Total Hours		66

## Graduation Plan

Our semester-by-semester graduation plans will show you when required courses in your major are offered. Following this plan will help you stay on track and graduate on time.

### Fall Start

Course	Title	Hours
<b>First Year</b>		
<b>Fall Semester</b>		
CWE 101	Cooperative Work Experience Preparation	1
HRT 107	Woody Ornamentals	2
HRT 121	Commercial Irrigation	3
HRT 141	Horticulture Pest Control	4
HRT 241	Turfgrass Management	3
HRT 254	Landscape Maintenance	2
Hours		15

### Spring Semester

HRT 101	Introduction to Horticulture	3
HRT 104	Landscape Design and Implementation	3
HRT 108	Annuals and Perennials	2
HRT 133	Basic Plant Propagation	2
HRT 255	Urban Tree Care	3
Hours		13

### Summer Semester

HRT 110	Plant Form and Function	4
	or BIO 101 Biological Science I	
HRT 125	Soils	4
Hours		8



## Second Year

### Fall Semester

HRT 130	Greenhouse Production	3
HRT 153	Landscape Construction	3
ACC 101	Accounting Principles I <sup>1</sup>	3
ENG 165 or ENG 101	Professional Communications or English Composition I	3
Elective Humanities/Fine Arts ( <a href="https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/">https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/</a> )		3
Hours		15

### Spring Semester

HRT 200	Horticulture Business Management	3
HRT 212	Commercial Landscape Design	3
MAT 170 or MAT 120	Algebra, Geometry and Trigonometry I or Probability and Statistics	3
SPC 205	Public Speaking	3
Elective Behavioral Science ( <a href="https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/">https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/</a> )		3
Hours		15
Total Hours		66

<sup>1</sup> BUS 101 or MGT 120 may be taken instead of ACC 101.

## Spring Start

Course	Title	Hours
<b>First Year</b>		
<b>Spring Semester</b>		
HRT 101	Introduction to Horticulture	3
HRT 104	Landscape Design and Implementation	3
HRT 108	Annuals and Perennials	2
HRT 133	Basic Plant Propagation	2
HRT 255	Urban Tree Care	3
Hours		13
<b>Summer Semester</b>		
HRT 110 or BIO 101	Plant Form and Function or Biological Science I	4
HRT 125	Soils	4
Hours		8
<b>Fall Semester</b>		
CWE 101	Cooperative Work Experience Preparation	1
HRT 107	Woody Ornamentals	2
HRT 121	Commercial Irrigation	3
HRT 141	Horticulture Pest Control	4
HRT 241	Turfgrass Management	3
HRT 254	Landscape Maintenance	2
Hours		15
<b>Second Year</b>		
<b>Spring Semester</b>		
HRT 200	Horticulture Business Management	3
HRT 212	Commercial Landscape Design	3

MAT 170 or MAT 120	Algebra, Geometry and Trigonometry I or Probability and Statistics	3
SPC 205	Public Speaking	3
Elective Behavioral Science ( <a href="https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/">https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/</a> )		3
Hours		15

### Fall Semester

ACC 101	Accounting Principles I <sup>1</sup>	3
ENG 165 or ENG 101	Professional Communications or English Composition I	3
HRT 130	Greenhouse Production	3
HRT 153	Landscape Construction	3
Elective Humanities/Fine Arts ( <a href="https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/">https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/</a> )		3
Hours		15
Total Hours		66

<sup>1</sup> BUS 101 or MGT 120 may be taken instead of ACC 101.

## Summer Start

Course	Title	Hours
<b>First Year</b>		
<b>Summer Semester</b>		
HRT 110 or BIO 101	Plant Form and Function or Biological Science I	4
HRT 125	Soils	4
Hours		8
<b>Fall Semester</b>		
CWE 101	Cooperative Work Experience Preparation	1
HRT 107	Woody Ornamentals	2
HRT 121	Commercial Irrigation	3
HRT 141	Horticulture Pest Control	4
HRT 241	Turfgrass Management	3
HRT 254	Landscape Maintenance	2
Hours		15
<b>Spring Semester</b>		
HRT 101	Introduction to Horticulture	3
HRT 104	Landscape Design and Implementation	3
HRT 108	Annuals and Perennials	2
HRT 133	Basic Plant Propagation	2
HRT 255	Urban Tree Care	3
Hours		13
<b>Second Year</b>		
<b>Fall Semester</b>		
ACC 101	Accounting Principles I <sup>1</sup>	3
ENG 165 or ENG 101	Professional Communications or English Composition I	3
HRT 130	Greenhouse Production	3
HRT 153	Landscape Construction	3

Elective Humanities/Fine Arts ( <a href="https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/">https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/</a> )	3
Hours	15
<b>Spring Semester</b>	
HRT 200 Horticulture Business Management	3
HRT 212 Commercial Landscape Design	3
MAT 170 Algebra, Geometry and Trigonometry I or MAT 120 or Probability and Statistics	3
SPC 205 Public Speaking	3
Elective Behavioral Science ( <a href="https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/">https://catalog.ptc.edu/student-handbook/advising-registration/general-education-courses/</a> )	3
Hours	15
Total Hours	66

<sup>1</sup> BUS 101 or MGT 120 may be taken instead of ACC 101.

## Application and Advising

If you are ready to start your education, there are a few simple steps involved in enrolling at Piedmont Technical College.

Get Started Today (<https://www.ptc.edu/admissions/new-students/>)

## Advising Information

The following information provides a guide for advisors who are helping students enroll in this program.

### Program Notes

HRT courses should be taken as sequenced in the Graduation Plans because they are only offered in specific semesters. If students deviate from this schedule, they risk delaying course completion and consequently graduation. If students desire to make an adjustment from the graduation plan, they should consult with the Program Director first.

Students desiring to transfer to a four-year university should get in contact with that university as soon as possible to ensure that they are taking all the necessary course to successfully transfer.

The following classes are offered in the fall semester: HRT 107, HRT 121, HRT 130, HRT 141, HRT 153, HRT 241, and HRT 254.

### Notes About Individual Classes

The English required for this program is ENG 165. Students will follow this progression, with their starting point being determined by their placement test scores: ENG 032/012 and/or RDG 032/012 (or RWR 032/012) > ENG 100 and/or RDG 100 (or RWR 100) > ENG 165. ENG 101 can be substituted for ENG 165 if the student plans to transfer.

The following classes are offered in the spring semester: HRT 101, HRT 104, HRT 108, HRT 133, HRT 200, HRT 212, and HRT 255. The math required for this program is MAT 170. The student will follow this progression with his or her starting point being determined by test scores: MAT 032/012 > MAT 170. If the student would like to transfer to a four-year institution in the future he or she should take MAT 120. In this case, the student will follow this progression, with his or her starting point

being determined by placement test scores: MAT 032/012 > MAT 152 or MAT 101 > MAT 120.

## Program Student Learning Outcomes

### Purpose Statement

Prepare students for supervisory, middle management and technical positions in horticulture. Promote excellence in teaching, learning, and educational services to ensure that each student has the opportunity to attain her or his fullest potential.

### Program Student Learning Outcomes:

1. Propagate and grow marketable plants in commercial plant production settings.
2. Produce attractive and functional landscape designs that meet client goals and expectations.
3. Interpret landscape plans and install plants and other landscape features according to specifications.
4. Maintain healthy and well-manicured lawns, golf courses, athletic fields, and landscapes.
5. Diagnose and provide solutions for biotic and abiotic plant problems utilizing principles of Integrated Pest Management.
6. Demonstrate an understanding of business principles needed to start and run a horticulture business.
7. Visually identify ornamental plants and provide their scientific names, growth habit, and cultural requirements for optimal growth in the landscape.