

Horticulture Technology

The Horticulture Technology curriculum is designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study.

Coursework includes plant science, plant materials, propagation, soils, fertilizers, and pest management. Horticulture Technology is a program that focuses on

- the general production and management of cultivated plants, shrubs, flowers, foliage, trees, ground covers, and related plant materials,
- the management of technical and business operations connected with horticultural services, and
- the basic science principles needed to understand plants and their management and care
- the management and care of golf courses, sports fields, and lawns

Also included are courses in plant production, landscaping, and the management and operation of horticulture businesses.

Graduates should qualify for employment opportunities in nurseries, garden centers, greenhouses, landscape operations, gardens, and governmental agencies. Graduates also should be prepared to take the following exams:

1. the North Carolina Certified Plant Professional Exam,
2. the licensed pesticide applicators exam, and
3. the ISA (International Society of Arboriculture) certified arborist exam.

Students interested in a career in Turfgrass Management can complete the turfgrass track within the Horticulture Technology degree.

For specific information about potential positions and wages in horticulture employment, visit the Central Piedmont Career Coach website.

Horticulture Technology (A15240)

Degree Awarded

The Associate in Applied Science - Horticulture Technology is awarded by the college upon completion of this program.

Admissions

- A high school diploma or equivalent (available through Central Piedmont) is required.
- Central Piedmont placement tests are required in English and mathematics. Developmental Studies mathematics and English courses are available for students to build basic skills and knowledge.
- Consult with an Advisement Counselor and attend an orientation session after placement testing.
- Many courses have prerequisites or co-requisites; check the Courses section for details.

Contact Information

The Horticulture Technology program is in the Education and Training Division. For more information, contact the Program Chair at 704.330.4826.

General Education Requirements

ENG 111	Writing and Inquiry	3.0
Select 3 credits of the following:		3.0

COM 110	Introduction to Communication	
COM 231	Public Speaking	

Select 3 credits of the following:		3.0
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MAT 110	Mathematical Measurement and Literacy	
MAT 121	Algebra/Trigonometry I	
MAT 143	Quantitative Literacy	
MAT 152	Statistical Methods I	
MAT 171	Precalculus Algebra	

Select 3 credits of the following:		3.0
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ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
DRA 111	Theatre Appreciation	
HUM 120	Cultural Studies	
HUM 130	Myth in Human Culture	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	
REL 110	World Religions	

Select 3 credits of the following:		3.0
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ECO 251	Principles of Microeconomics	
ECO 252	Principles of Macroeconomics	
HIS 111	World Civilizations I	
HIS 112	World Civilizations II	
HIS 131	American History I	
HIS 132	American History II	
POL 120	American Government	
PSY 150	General Psychology	
SOC 210	Introduction to Sociology	

Major Requirements

ACA 122	College Transfer Success	1.0
HOR 112	Landscape Design I	3.0
HOR 116	Landscape Management I	3.0
or TRF 152	Landscape Maintenance	
HOR 124	Nursery Operations	3.0
or HOR 134	Greenhouse Operations	
HOR 150	Introduction to Horticulture	2.0
HOR 160	Plant Materials I	3.0
HOR 161	Plant Materials II	3.0
HOR 162	Applied Plant Science	3.0
HOR 164	Horticultural Pest Management	3.0
or TRF 240	Turfgrass Pest Control	
HOR 166	Soils and Fertilizers	3.0
HOR 168	Plant Propagation	3.0
HOR 257	Arboriculture Practices	2.0
TRF 110	Introduction Turfgrass Cultivation & Id And Identification	4.0
WBL 111	Work-Based Learning I	1.0

SPA 120	Spanish for the Workplace	3.0
BUS 139	Entrepreneurship I	3.0
or BUS 230	Small Business Management	

Technical Electives

Select 9 credits of the following:		9.0
HOR 114	Landscape Construction	
HOR 118	Equipment Operation and Maintenance	
HOR 142	Fruit & Vegetable Production	
HOR 154	Introduction to Horticulture Therapy	
HOR 170	Horticultural Computer Applications	
HOR 213	Landscape Design II	
HOR 215	Landscape Irrigation	
HOR 245	Horticultural Specialty Crops	
HOR 251	Insects & Diseases	
HOR 255	Interiorscapes	
HOR 257	Arboriculture Practices	
HOR 265	Advanced Plant Materials	
TRF 130	Native Flora ID	
TRF 152	Landscape Maintenance	

Total Credits 67

No diplomas are offered in Horticulture Technology.

Horticulture Technology Certificates (C15240)

- Horticulture Technology Certificate with a Specialization in Landscape Design (C15240-C1) (p. 2)
- Horticulture Technology Certificate with a Specialization in Horticulture Maintenance (C15240-C5) (p. 2)
- Horticulture Technology Certificate with a Specialization in Plant Production (C15240-C6) (p. 2)
- Horticulture Technology Certificate with a Specialization in Horticulture (C15240-C7) (p. 2)
- Horticulture Technology Certificate with a Specialization in Landscape Maintenance (C15240-C8) (p. 2)
- Horticulture Technology Certificate with a Specialization in Urban Agriculture (C15240-C9) (p. 3)

Horticulture Technology Certificate with a Specialization in Landscape Design (C15240-C1)

This certificate is designed to prepare individuals for horticultural careers in the specialized area of landscape design. Coursework includes plant materials, design, graphics and landscape computer applications.

Major Requirements

HOR 160	Plant Materials I	3.0
HOR 213	Landscape Design II	3.0
HOR 112	Landscape Design I	3.0
HOR 161	Plant Materials II	3.0
HOR 170	Horticultural Computer Applications	2.0
HOR 265	Advanced Plant Materials	2.0

Total Credits 16

Horticulture Technology Certificate with a Specialization in Horticulture Maintenance (C15240-C5)

This certificate is designed to prepare individuals for horticultural careers in maintaining landscape and turf areas. Coursework includes plant materials, pest management and landscape and turfgrass management.

Major Requirements

HOR 116	Landscape Management I	3.0
HOR 164	Horticultural Pest Management	3.0
HOR 118	Equipment Operation and Maintenance	2.0
or HOR 257	Arboriculture Practices	
HOR 160	Plant Materials I	3.0
or HOR 161	Plant Materials II	
HOR 253	Horticulture Turfgrass	3.0
or TRF 110	Introduction Turfgrass Cultivation & Id And Identification	

Total Credits 14

Horticulture Technology Certificate with a Specialization in Plant Production (C15240-C6)

This certificate is designed to prepare individuals for horticultural careers as growers of nursery and greenhouse crops. Coursework includes plant materials, pest management, propagation and the operation of nurseries and greenhouses.

Major Requirements

HOR 124	Nursery Operations	3.0
HOR 134	Greenhouse Operations	3.0
HOR 164	Horticultural Pest Management	3.0
HOR 168	Plant Propagation	3.0
HOR 161	Plant Materials II	3.0

Total Credits 15

Horticulture Technology Certificate Specialization in Horticulture (C15240-C7)

This program also is available to high school students through the Career and College Promise program.

Major Requirements

HOR 160	Plant Materials I	3.0
HOR 162	Applied Plant Science	3.0
HOR 166	Soils and Fertilizers	3.0
HOR 168	Plant Propagation	3.0

Total Credits 12

Horticulture Technology Certificate Specialization in Landscape Maintenance (C15240-C8)

This program also is available to high school students through the Career and College Promise program.

Major Requirements

HOR 160	Plant Materials I	3.0
HOR 162	Applied Plant Science	3.0
HOR 166	Soils and Fertilizers	3.0

HOR 168	Plant Propagation	3.0
HOR 253	Horticulture Turfgrass	3.0
TRF 152	Landscape Maintenance	3.0
Total Credits		18

Horticulture Technology Certificate with a Specialization in Urban Agriculture (C15240-C9)

This program also is available to high school students through the Career and College Promise program.

HOR 134	Greenhouse Operations	3.0
HOR 142	Fruit & Vegetable Production	2.0
HOR 164	Horticultural Pest Management	3.0
HOR 168	Plant Propagation	3.0
HOR 166	Soils and Fertilizers	3.0
Total Credits		14

Horticulture Technology Suggested Course Sequence

The following is the suggested plan for when to take each course to complete the Associate in Applied Science degree, based on the program requirements of the 2024-2025 catalog. This is only a recommendation — you may take courses in another order upon consultation with your advisor. This plan is based on you starting with college-level math and English courses, starting your program in the fall, and attending full-time. You can also follow this sequence if you attend part-time. Speak with your academic advisor about the plan and any questions. This program might also offer diplomas or certificates; visit the catalog or contact the program for details. Visit the Academic Advising page for instructions on locating your assigned advisor: <https://www.cpcc.edu/academics/academic-advising>

Term I		Credits
HOR 161	Plant Materials II	3.0
HOR 150	Introduction to Horticulture	2.0
TRF 110	Introduction Turfgrass Cultivation & Id And Identification	4.0
ENG 111	Writing and Inquiry	3.0
MAT 110	Mathematical Measurement and Literacy	3.0
or MAT 121	or Algebra/Trigonometry I	
or MAT 143	or Quantitative Literacy	
or MAT 152	or Statistical Methods I	
or MAT 171	or Precalculus Algebra	
ACA 122	College Transfer Success	1.0
Credits		16

Term II		
HOR 160	Plant Materials I	3.0
HOR 162	Applied Plant Science	3.0
HOR 166	Soils and Fertilizers	3.0
COM 110	Introduction to Communication	3.0
or COM 231	or Public Speaking	
Humanities/Fine Arts		3.0
Credits		15

Term III		
WBL 111	Work-Based Learning I	1.0
Behavioral/Social Science		3.0
Credits		4

Term IV		
HOR 112	Landscape Design I	3.0
HOR 124	Nursery Operations (HOR 124 offered in fall; HOR 134 offered in spring)	3.0
or HOR 134	or Greenhouse Operations	

HOR 164	Horticultural Pest Management	3.0
HOR 168	Plant Propagation	3.0
HOR 257	Arboriculture Practices	2.0
Technical Elective		3.0

You may have completed a program certificate(s). Confirm eligibility with your academic advisor.

Term V		Credits
HOR 116	Landscape Management I	3.0
SPA 120	Spanish for the Workplace	3.0
BUS 139	Entrepreneurship I	3.0
or BUS 230	or Small Business Management	
Technical Elective		3.0
Technical Elective		3.0
You may have completed a program certificate(s). Confirm eligibility with your academic advisor.		
Credits		15
Total Credits		67