

LANDSCAPE AND HORTICULTURE TECHNICIAN, COLLEGE CREDIT CERTIFICATE

Program Code: LTCC
Meta-Major: STEM
Location(s): Melbourne
Delivery Method(s): On-Campus, Hybrid
Previous Degree Required: HS Diploma
Eligible for Financial Aid: Yes
Additional Limited Access Application Process Required: No
Program Testing Requirements:
Classification of Instructional Programs (CIP) Code: 01.0605
Florida Department of Education CIP Code: 0101060505

This certificate is associated with the [A.S. Landscape and Horticulture Technology](#) and offers a sequence of courses that provide coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for a career in the Agriculture, Food and Natural Resources career cluster. The program provides technical skill proficiency, competency-based applied learning that contributes to work attitudes, general employability skills, technical skills, occupation-specific skills, and knowledge of all aspects of the landscape and horticulture sector within the Agriculture, Food and Natural Resources career cluster.

The program can also be used as a starting point by students looking to pursue a traditional four-year degree in agriculture, food and natural resources.

The content includes but is not limited to plant physiology and growth, plant nutrition and fertilization, plant classification and identification, pest control, pruning and shaping plants, maintenance of landscape plants, equipment maintenance, and employability and human relations skills. This program also prepares for certification and licensure as a horticulture professional and landscape technician. [Visit the program page for more details and how to apply.](#)

For student success and safety, it is highly recommended that applicants to this program are able to meet the following:

- Students are able to lift 25lbs or greater.
- Students are able to read and understand application labels, warning labels, disposal labels, and instruction labels for various horticulture chemicals.
- Students are able to identify different color codes.
- Students are able to access the plants, ground, and soil.
- Students are able to use various horticulture tools.
- Students are able to work outside in various weather conditions and for extended periods of time.

Certificate Requirements

Code	Title	Credit Hours
Major Courses		
BOTC 1010	Botany	4
HOSC 2010	Horticulture 1	3
IPMC 2323	Soils and Application of Pesticides and Fertilizers	3

LDE 2301	Irrigation Design and Maintenance	3
ORHC 1510	Plant Identification	4
Specialization		
Select one specialization from the following:		13
Landscape Specialization		
Horticulture Specialization		
Total Credit Hours		30

Learning Outcomes: Landscape & Horticulture Programs

The outcomes below apply to the Landscape and Horticulture A.S. Degree (Horticulture Technology and Landscape Technology Specializations); to the Landscape and Horticulture Professional CCC; and to the Landscape and Horticulture Technician CCC (Horticulture Specialization).

1. Develop a pest control plan for a select species using various control methods.
 - *Supports Core Ability: Communicate Effectively*
2. Manipulate plant growth and growth regulators on select plant species.
 - *Supports Core Ability: Think Critically and Solve Problems*
3. Characterize different biotic and abiotic stressors for a given plant species.
 - *Supports Core Ability: Process Information*
4. Demonstrate proficiency of Florida commercial fertilizer application laws, rules, and regulations (i.e. Chapter 576 FS, 576.021(1) FS, 576.045 (2) FS).
 - *Supports Core Ability: Model Ethic and Civic Responsibility*
5. Students will collect and identify a variety of plant species in an area(s) of choice.
 - *Supports Core Ability: Work Cooperatively*