

Horticulture Student Learning Outcomes

Career Preparation

The Lee College Horticulture Program prepares students for a wide range of careers in the rapidly growing horticulture and agriculture industries. Students develop workforce-ready skills through hands-on training, industry-relevant coursework, and exposure to real job scenarios.

Career pathways include:

- Greenhouse and nursery production
- Landscape design and installation
- Lawn and turf management
- Irrigation and water management
- Floral design and plant retail
- Agricultural operations and small farm management
- Entrepreneurship in landscaping or plant-based businesses

Students also gain experience in:

- Plant identification and care
 - Soil management and fertility
 - Pest and disease control
 - Equipment operation and safety
 - Business fundamentals for starting and managing a horticulture enterprise
1. **Identify and Classify Plants**
Outcome: Accurately identify and classify horticultural plants used in Texas landscapes.
 2. **Demonstrate Plant Propagation Techniques**
Outcome: Apply propagation methods including seed, cuttings, grafting, and division.
 3. **Apply Soil and Water Management Practices**
Outcome: Evaluate soil conditions and implement irrigation and fertility programs.
 4. **Diagnose and Manage Plant Health Issues**
Outcome: Identify pests, diseases, and nutrient deficiencies and apply IPM strategies.
 5. **Operate and Maintain Equipment Safely**
Outcome: Safely use and maintain horticulture tools and equipment.
 6. **Design, Install, and Maintain Landscapes**
Outcome: Create basic landscape designs and perform installation and maintenance tasks.
 7. **Demonstrate Greenhouse and Nursery Production Skills**
Outcome: Manage plant production in greenhouse and nursery environments.
 8. **Exhibit Professionalism and Work Readiness**
Outcome: Demonstrate teamwork, communication, and workplace responsibility.
 9. **Apply Business and Entrepreneurship Principles**

Outcome: Develop basic business plans, cost estimates, and customer service skills.

10. **Follow Safety and Environmental Regulations**

Outcome: Apply safety standards and environmental best practices.