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.