

# AG 200L : Principles of Horticulture Lab

**Credits:** 1

**Class Hours:** 3 lab

**Prerequisites:** "C" or higher or concurrent enrollment in AG 200.

**Description:** This course (1) introduces plant anatomy and physiology, (2) discusses plant nutrients, moisture, environmental requirements and plant propagation, and (3) studies culture and production techniques for selected ornamental crops through laboratory exercises.

**Semester Offered:** Fall, Spring

**Designation:**

Diversification: Lab (Science) — DY

**Course Student Learning Outcomes (CSLOs):**

1. Categorize and identify the taxonomy of horticultural plants.
2. Describe and identify the function of plant cells, tissues, and organs.
3. Describe plant differentiation, vegetative and reproductive physiology, and life cycles.
4. Discuss the basics of soil-water management.
5. Identify climates and types of horticultural crops and growing systems adapted to these zones.
6. Explain basic plant processes including photosynthesis, respiration, nutrient absorption, translocation, and transpiration.
7. Discuss and identify soil, soil management, and mineral nutrition of plants and recognize symptoms of deficiencies.
8. Discuss the fundamentals of horticultural pests and their management.
9. Demonstrate and describe the methods of breeding plants for economic traits.