

# Virginia Western Community College

## HRT 110

### Principles of Horticulture

#### **Prerequisites**

None.

#### **Course Description**

Introduces concepts of plant growth and development. Covers horticultural practices, crops and environmental factors affecting plant growth.

**Semester Credits: 3 Lecture Hours: 3 Lab/Clinical/Internship Hours: 0**

#### **Required Materials**

##### **Textbook:**

Ornamental Horticulture: Science, Operations, & Management. Fourth Edition. ISBN: 978-1-4354-9816-7.

##### **Other Required Materials:**

None

#### **Course Outcomes**

**At the completion of this course, the student should be able to:**

1. Explain the principles of plant growth and how they are influenced by environmental factors.
2. Demonstrate skills in identification, propagation, establishment, maintenance and creative uses of plants.
3. Identify common plant pests and recommend integrated pest management techniques best suited to protect the environment while minimizing plant damage.
4. Demonstrate an understanding of landscape design, installation and management techniques.
5. Describe the equipment, facilities, and physical arrangements used in production related ornamental horticulture businesses.

#### **Topical Description**

##### **MODULE 1**

The Green Plant (Chapter 1)	Week 1
Describing and Identifying Plants (Chapter 2)	Week 1

##### **MODULE 2**

The Soil (Chapter 3)	Week 2
Plant Growth Regulators (Chapter 4)	Week 2

MODULE 3

Plant Reproduction (Chapter 5)

Week 3

Propagation (Chapter 14)

Week 3

MODULE 4

Plant Injuries and Their Control (Chapter 6)

Week 4

MODULE 5

Landscape Design (Chapter 9)

Week 5

Installing Landscape Plants (Chapter 10)

Week 5

MODULE 6

Maintaining Landscape Plants (Chapter 11)

Week 6

Turf Management (Chapter 13)

Week 6

MODULE 7

Greenhouses and Other Growing Structures (Chapter 19)

Week 7

Greenhouse Production Techniques (Chapter 20)

Week 7

Nursery Production Techniques (Chapter 21)

Week 7

Exam

Week 8

**Notes to Instructors**

None