

Revised: Fall 2016

HRT 110

Principles of Horticulture

COURSE OUTLINE

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 Hours: 0

VIRGINIA WESTERN COMMUNITY COLLEGE
Division of Business Technology & Trades
3098 Colonial Ave.
Roanoke, VA 24015
(540)-857-7272



HRT 110

Principles of Horticulture

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.



Principles of Horticulture – HRT 110

Required Materials:

None

Textbook:

Ingels, J. E. 2010. *Ornamental Horticulture: Science, Operations, & Management*, Fourth Edition, Delmar, Cengage Learning, Clifton Park, NY. ISBN: 978-1-4354-9816-7.

VIRGINIA WESTERN COMMUNITY COLLEGE
Division of Business Technology & Trades
3098 Colonial Ave.
Roanoke, VA 24015
(540)-857-7272



Principles of Horticulture – HRT 110

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



Principles of Horticulture – HRT 110

Notes to Instructors

(List information about optional topics, departmental exams, etc)

1. Careers in Horticulture
- 2.
- 3.
- 4.

VIRGINIA WESTERN COMMUNITY COLLEGE
Division of Business Technology & Trades
3098 Colonial Ave.
Roanoke, VA 24015
(540)-857-7272

