

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: HRT 110

Credits: 3

Course Title: Principles of Horticulture

Course Description: Introduces concepts of plant growth and development. Covers horticultural practices, crops, and environmental factors affecting plant growth. Lecture 3 hours per week.

General Course Purpose: Introduce students to the career opportunities in horticulture and the basic principles of horticulture related to plant growth, nomenclature, cultural and soil requirements, pest control, and plant structure and function.

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Demonstrate the basic concepts, practices, and techniques used in the industry today; and
- b. Display knowledge and understanding of the potential career opportunities associated with the horticultural profession.

Major Topics to Be Included:

- a. Origins and early history of horticulture
- b. Overview of horticultural industries
- c. Horticulture and its relationship to biology and agriculture
- d. The plant kingdom and its relation to horticulture
- e. Plants classification and nomenclature
- f. Plant structure and function
- g. Cultural requirements of plants
- h. Soil and various plant media
- i. Fertilization and fertilizers
- j. Control of plant growth
- k. Techniques in insect and disease control
- l. Horticultural industry
- m. Fruits and vegetables
- n. Basic floral design

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