

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: HRT 115

Credits: 3

Course Title: Plant Propagation

Course Description (including lecture hours, lab hours, total contacts)

Teaches principles and practices of plant propagation. Examines commercial and home practices. Provides experience in techniques using seed-spores, cuttings, grafting, budding, layering and division. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose

Introduce and demonstrate plant propagation methods used in the home garden and commercial applications. This includes sexual and asexual methods commonly used in the horticulture industry.

Course Prerequisites/Corequisites (*Entry-level competencies **required** for enrollment*)

None

Course Objectives (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

- a. Demonstrate grafting
- b. Demonstrate cuttings
- c. Demonstrate layering
- d. Demonstrate tissue culture
- e. Demonstrate breeding techniques
- f. Demonstrate seed preparations
- g. Demonstrate seed propagation

Major Topics to be Included

- a. Plant anatomy and physiology related to propagation
- b. Plant genetics
- c. Propagation structures, environment
- d. Sexual propagation and seed handling
- e. Techniques of propagation by seed
- f. Aspects of asexual propagation
- g. Techniques of cuttings
- h. Techniques of grafting
- i. Aspects of micro propagation
- j. Propagation by specialized stems

Effective Date of Course Content Summary (Month, Date Year): 2/12/09