

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: HRT 195

Credits: 2

Course Title: Topics in Horticulture: Tree and Shrub Propagation

Course Description:

Introduces propagation methods of select trees and shrubs. Sexual and asexual methods will be examined, as well as the environmental requirements for each. Lecture 2 hours per week.

General Course Purpose:

To introduce students to the proper methods for seed collection, storage, and germination for select trees and shrubs and to the proper methods for cutting collection, storage, and rooting for select trees and shrubs.

Course Objectives:

Upon completing the course, the student will be able to

1. Collect, store, and provide the right environmental conditions to promote germination of seeds of select trees and shrubs.
2. Collect, store, and produce roots on select trees and shrubs.

Major Topics to be Included:

1. Propagation Environment
 - a. Greenhouse
 - b. Intermittent Misting Systems
 - c. Cold Frames
 - d. Temperature, Light, and Pest Control
2. Proper Use of Propagation Tools and Equipment
 - a. Pruning Tools
 - b. Sanitary Procedures
 - c. Proper Timing of Cuttings and Seed Collection

Effective Date of Course Content Summary: March 28, 2013