

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

Course Prefix and Number: HRT 121

Credits: 3

Course Title: Greenhouse Crop Production I

Course Description: Examines commercial practices related to production of floriculture crops. Considers production requirements, environmental control and management, and cultural techniques. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose: Introduce students to the production of fall crops that can be produced in a greenhouse. Topics include greenhouse structures, medias, crop scheduling, cultural practices, and environmental controls.

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Schedule a crop for a particular target date;
- b. Demonstrate knowledge of environmental controls and management decisions for greenhouses;
- c. Demonstrate understanding of various medias; and
- d. Demonstrate understanding of greenhouse structures.

Major Topics to Be Included:

- a. Review of commercial greenhouse industry and its importance to world and U.S. economy
- b. Greenhouse structures and equipment
- c. Crop production scheduling
- d. Cultural requirements for specific crops
- e. Seeding and plug production techniques
- f. Growth regulators
- g. Crop evaluation and trouble shooting
- h. Photoperiodism in plants

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