

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

Course Prefix and Number: HRT 119

Credits: 3

Course Title: Irrigation Systems for Turf and Ornamentals

Course Description: Explains why, when, and how irrigation systems are used by the grounds management industry. Includes component selection, system design, installation, operation, and maintenance. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose: Introduce and demonstrate all aspects of plant irrigation and understand its importance in the horticulture industry. This includes the irrigation design for residential and commercial applications, component selection, installation, and maintenance.

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Demonstrate and understand why, when, and how irrigation systems are used in turf and ornamentals;
- b. Select components/prepare designs with proposals and bids; and
- c. Demonstrate an understanding of the mechanics of irrigation installation operation and maintenance.

Major Topics to Be Included:

- a. Site analysis
- b. Component selection
- c. Design
- d. Installation
- e. General operation/maintenance
- f. Proposals/bidding

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