

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

Course Prefix and Number: HRT 195

Credits: 3

Course Title: Topics in Horticulture: Hydroponics

Course Description: Introduces the student to the topic of water and nutrient relationships as they relate to soilless media for plant production. Examines plant/water relationships and optimum nutrition. Lecture 3 hours per week.

General Course Purpose: To give students the knowledge and tools needed to reproduce hydroponic/aquaponic trials successfully. High yield plant production will be the focus of the course

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Successfully build their own hydroponic production system;
- b. Identify issues and solve problems as they relate to plant health; and
- c. Grow high yield crops and create inexpensive production units from readily available materials.

Major Topics to Be Included:

- a. Hydroponics
- b. Aquaponics
- c. Plant nutrition
- d. Plant/Water relationships
- e. Creative plant production systems
- f. Current trends in the hydroponics industry

Date Created/Updated (Month, Day, and Year): January 24, 2019