

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

**Course Prefix and Number:** HRT 161      **Credits:** 3

**Course Title:** Hydroponics

**Course Description:**

Introduces students to the topic of water and nutrient relationships as they relate to soilless media for plant production. Plant/water relationships and optimum nutrition will be examined. Lecture 3 3 hours. Total 3 hours per week.

**General Course Purpose:**

This course will give students the knowledge and tools needed to successfully reproduce hydroponic/aquaponics trials. High yield plant production will be the focus of the course.

**Course Prerequisites/Corequisites:**

None

**Course Objectives:**

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

- Build a hydroponic production system.
- Identify issues and solve problems as they relate to plant health.
- Grow high yield crops and create inexpensive production units from readily available materials.

**Major Topics to be Included:**

- Hydroponics
- Aquaponics
- Plant nutrition
- Plant/Water relationships
- Creative plant production systems
- Current trends in the Hydroponics industry

**Effective Date/Updated:** November 20, 2023