

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

Course Prefix and Number: HRT 205

Credits: 3

Course Title: Soils

Course Description: Teaches theoretical and practical aspects of soils and other growing media. Examines media components, chemical and physical properties, and soil organisms. Discusses management and conservation. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose: Prepare students to manage their plant production soils properly.

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Identify the clay, sand, and silt content of a soil;
- b. Identify the chemical and physical properties of soils; and
- c. Recognize the importance of soil in the production of crops.

Major Topics to Be Included:

- a. Functions of soils
- b. Soil water dynamics
- c. Soil classification
- d. Soil architecture and physical properties
- e. Soil acidity
- f. Organic matter
- g. Soil erosion
- h. Soil nutrient management

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