

**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. Prerequisites: None. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose:

Course Prerequisites and Co-requisites:
None

Course Objectives:

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

- a. Identify the clay, sand, and silt content of a soil;
- b. Understand the chemical and physical properties of soils; and
- c. Understand 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

Effective Date of Course Content Summary: February 12, 2009