

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: HRT 205

Credits: 3

Course Title: Soils

Course Description (including lecture hours, lab hours, total contacts)

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

Course Prerequisites/Corequisites (*Entry-level competencies **required** for enrollment*)

None

Course Objectives (Each item should complete the following sentence.)

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
- 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 (Month, Date Year): 2/12/09