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

Date Created/Updated (Month, Day, and Year): January 5, 2019