

Section I: Course Description

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Department: Landscape Horticulture (LHO)

Division: Hospitality and Service
Occupations

Curriculum: Landscape and Environmental
Horticulture

Revision: S. Skamser

Course Title: Soils

Effective Date: February 2004

Course Number: LHO152

Status: Active

Type Of Course: Vocational Preparatory

Course Length: 1 quarter

Credit Hours: 3

Lecture Hours: 33

Lab Hours: 0

Class Size: 25

Prerequisites: None

Course Description

An in-depth study of soil properties, management and conservation. Emphasis on the plant-soil relationship, evaluation of urban soils, and use of appropriate soil amendments. Includes an overview of inorganic and organic fertilizers.

Section II: Student Learning Outcomes

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Student Learning Outcomes

1. Human Relations - Use social interactive skills to work in lab groups effectively.
2. Critical Thinking and Problem Solving - Think critically in evaluating soils, solving soil problem and making decisions regarding solutions.
3. Information Literacy - Access and evaluate information from a variety of sources.

Section III: Course Objectives

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General Course Objectives

At the end of the course the student will:

1. Understand how the soil as a system functions.
2. Understand the interrelationships of soil, water and plants.
3. Describe soil assessment at the landscape site.
4. Understand selection and use of soil amendments and fertilizers.
5. Acquire safety, leadership and work ethics.

Section IV: Course Outline

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Topical Course Outline

TOPICAL OUTLINE:

APPROX. HOURS

I.	Introduction	1
II.	Overview of soils	2
III.	Basic soil properties	5
IV.	Soil formation	1
V.	Urban soils	2
VI.	Plant and the soil	4
VII.	Water-plant-soils systems	5
VIII.	Soil fertility and plant nutrition	3
IX.	Fertilizers	3
X.	Soils contamination and degradation	3
XI.	Soil and the landscape site	4

Total 33