

Plant Science 2: Soils
Course Information

Course Description

An introduction to the basic principles of soil science, including the physical, chemical, and biological characteristics of soils. Emphasis during lectures and laboratories is placed on developing practical and effective soil management solutions that preserve soil quality in an irrigated environment.

Units and Hours

3 units; 2 hours lecture - M,W 10:00 a.m. to 10:50 a.m. LSH1
3 hours lab. - M 2:00 p.m. to 4:50 p.m. LSH1

Textbook

Foth, H.D. 1990. *Fundamentals of Soil Science*. 8th edition. John Wiley and Sons.

Assignments and Grading

Three major tests will be given that correlate to the assigned readings and course lecture notes. Quizzes will be given weekly on the discussed subject matter.

		Point Distribution		
Lecture:	Quizzes		100	
	2 Midterms		300	
	Final Exam		200	
	Laboratory:		200	
Total Points			800	
90% = A	80% = B	70% = C	60% = D	Less = F

<u>Last Day To:</u>	Drop Class with Refund:	August 28, 1998
	Drop w/o Transcript Record:	September 4, 1998
	Change CR/NR:	September 18, 1998
	Drop w/o a Letter Grade Assigned	October 16, 1998

Attendance

Attendance of lectures and labs is required and roll will be taken at each meeting. A "tardy" is considered an absence unless the student contacts and explains the incident. Students must make prior arrangements with the instructor to be excused from lectures and labs, make-up of missed tests and labs are permitted only with excused absences.

Office Hours - LSH 2

Monday 1:00 Wednesday 1:00 Friday 10:00

Lecture Schedule

<u>Week</u>	<u>Topic</u>	<u>Reading Assignment</u>
1	Introduction Soil as a Medium for Plant Growth	Chapter 1
2	Soil as a Natural Body	Chapter 2
3	Soil Physical Properties	Chapter 3
4	Soil Physical Properties	Chapter 3
5	Tillage and Traffic	Chapter 4
6	Review & Midterm	
7	Soil Water	Chapter 5
8	Soil Water Management	Chapter 6
9	Soil Erosion Soil Ecology	Chapter 7 Chapter 8
10	Soil Organic Matter	Chapter 9
11	Soil Mineralogy	Chapter 10
12	Review & Midterm	
13	Soil Chemistry	Chapter 11
14	Plant Soil Macronutrient Relations	Chapter 10
15	Micronutrients and Toxic Elements	Chapter 11
16	Fertilizers/Soil Fertility	Chapters 12 & 13
17	Soil Genesis/Taxonomy Soil Surveys	Chapters 13 & 14 Chapter 15
18	Final Exam	