

NRM 380 - SOILS AND THE ENVIRONMENT SYLLABUS

Fall - 2003

Objective: To understand the physical, chemical, and biological processes that occur in the soil and how they affect the environment. The course will cover the following topics: soil formation, soil texture, soil structure, soil water, soil air, soil nutrients, soil microorganisms, soil pollution, and soil remediation.

Lecture: 1. Introduction to Soils and the Environment. 2. Soil Formation. 3. Soil Texture. 4. Soil Structure. 5. Soil Water. 6. Soil Air. 7. Soil Nutrients. 8. Soil Microorganisms. 9. Soil Pollution. 10. Soil Remediation.

Lab: 1. Soil Sampling. 2. Soil Texture Determination. 3. Soil Structure Determination. 4. Soil Water Determination. 5. Soil Air Determination. 6. Soil Nutrient Determination. 7. Soil Microorganism Isolation. 8. Soil Pollution Assessment. 9. Soil Remediation Techniques.

Text: Soil Science: An Introduction to Soil Science, 2nd Edition, by R. W. Boyd and J. R. Harsh. Soil Science: Principles and Applications, 2nd Edition, by J. R. Harsh and R. W. Boyd. Soil Science: A Foundation for Sustainable Agriculture, 2nd Edition, by J. R. Harsh and R. W. Boyd.

Lab Manual: Soil Science: A Laboratory Manual, 2nd Edition, by J. R. Harsh and R. W. Boyd.

NRM-380 SOILS GRADING POLICY

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Lecture, exam, and homework schedule

Date	Lecture Topic	Brady & Weil Chapter
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