

Soil-Plant Relationships
Agron/EnSci 553
Fall 2008

Instructor: Randy Killorn
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Emphasis: 1) The nature and diversity of soil-plant systems;
2) Soil characteristics and processes that influence plant growth;
3) Effects of plants on these properties and processes.

Topics:

Plant roots and the soil-root interface
Soil particles and pores
Water in soil-plant systems
The soil solution
Soil aeration and poorly aerated soils
Nutrient movement in soil-root systems
Acid soils
Salt and alkali affected soils
Nitrogen
Potassium
Phosphorus
Calcium, Magnesium, and Sulfur
Micronutrients

Grading:

Bi-weekly quizzes, a total of 6	36 points
Class participation	30 points
Term paper	34 points
Final (optional)	

Important Dates:

August 20	1 st day of class
September 3	Labor Day Holiday, no class
November 4-8	American Society of Agronomy meetings, no class
November 19-23	Thanksgiving Break, no class
December 7	Final day of class
December 10-14	Finals week