

Permit 20008-005

Field Name	Field Value
Name	Linda R. Barrett
Organization	Dept. of Geography and Planning
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Web_Address	
Renewal	No
Permit_Number	
Activity	Education
Project	Soil and Water Field Studies 3350:495/595
Dates	April 11 and 25
Group_Size	13
Research_Area	Yes: Wetland
Sensitive_Area	No
Other_Areas	No
Building	Yes
Prep_Work	We will use the classroom space before going to the field to orient the students to the activities of the day.
Sampling_Collecting	Yes
Sampling_Methods	Ideally, the soil samples will be taken from the face of a small (approximately one meter deep) pit dug by hand with a shovel. While the pit is open, the material removed will be placed on a tarp. Soil samples (approx. 1 kg each) will be removed from the pit face; about four to six horizons will be sampled per pit. The rest of the soil will be returned to the pit before the students leave the site. However, if the soil is very wet on the day of the sampling, sampling may be conducted using a hand-operated 3 inch diameter \"bucket auger\"; in this case, soil from the auger will be placed on a tarp next to the auger hole for observation and description. A small sample of each horizon will be retained in a plastic sample bag for later observation. The remainder of the soil will be returned to the auger hole.
Description	The object of this activity is to give the students experience in describing, sampling, and analyzing soils, and allow the students the opportunity to observe the effect of topography on soil properties. The class will be divided into four groups. Each group will describe and sample one pedon (soil profile) by horizon, and will also observe the soils that the other three groups are sampling. One group will sample in a well-drained position, one group will

	sample in a poorly drained position, and the other two groups will sample in intermediate positions. This activity will take place in the western portion of the \"Wetland\" research area. The potential impact of the activity on the nature preserve is the disturbance to the soil and the plants in the immediate vicinity of the sample sites.
Agreement	Accept