

Field Name	Field Value
Name	Linda Barrett
Organization	Geology and Environmental Science
Phone	330-972-6120
email	barrett@uakron.edu
Web_Address	
Renewal	No
Permit_Number	2012-012
Activity	Education
Project	Soil and Water Field Studies 3350:495/595
Dates	9/29, 10/6, 10/20
Group_Size	15
Research_Area	Yes
Grandview_Alley	Yes
South_Woods	Yes
Sensitive_Area	No
Other_Areas	Yes
Panzner_Wetlands	Yes
Building	Yes
Prep_Work	Will use classroom space to orient students to the activity for 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. 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;

	<p>each group 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. I would also like to show the class the Panzner Wetlands site, and if possible allow them to describe and sample an organic soil there either using a soil pit or a bucket auger.</p>
Description	<p>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. 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; each group 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. Impacts on the field station will be minimal beyond the disturbance to the soil.</p>
Agreement	Accept