Earth Sciences 5189.05: Geologic Setting of Lake Erie

Semester Credit Hours – 2 under/grad

**Prerequisites**
In-service teacher, non-formal educator, or education major with junior rank or above by summer of enrollment OR permission of instructor.

**Course Content and Objectives**
This course will be a week-long fieldtrip, offered through O.S.U.’s Stone Laboratory program, to examine the geologic features exposed along the southern shore of Lake Erie. The objective of the course will be to interpret the geologic history of Ohio and the Lake Erie basin from the features observed, and to understand the relationships between human activity and the geology of the area.

**Grades**
Students will be evaluated on the basis of their field notes, their answers to questions in the fieldtrip guidebook, and their participation in discussions in the field.

**Schedule**
Sat. Meet at Fawcett Center, OSU, and drive to Catawba Point. Take ferry to South Bass Island, and transfer to Gibraltar Island. Evening lecture, “Introduction to the geology of Ohio.”

Sun. Field trip to Kelleys Island to examine glacial grooves and Columbus Limestone in old quarries. Return to Catawba Point, and drive to East Harbor State Park; possible stop at East Harbor State Park. Stay overnight in Sandusky, Huron or Norwalk.

Mon. Examine coastal processes and human interactions with lake shoreline at Huron Harbor and Old Woman’s Creek. Drive to the west side of Cleveland, and examine Devonian through Mississippian outcrops in the Rocky River valley. Stay overnight in the Cleveland area.

Tues. Examine Devonian through Pennsylvanian outcrops in the Cuyahoga Valley National Park. Stay overnight in the Cleveland area.

Wed. Examine beach processes, lakeshore erosion, and human interactions with Lake Erie in Lake and Ashtabula counties. Stay overnight in Erie, PA.

Thur. One-day trip to Niagara Falls and the Niagara Gorge. Examine a classic sequence of Ordovician through Silurian rocks, and discuss the geomorphology and glacial history of the region. Stay overnight in Erie, PA.

Fri. Return to Columbus, arriving in the early afternoon at the Fawcett Center.  

**Instructor:**  Dr. Lawrence A. Krissek  
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Costs

In addition to normal tuition, fees payable to The Ohio State University are $455. This includes
- Lodging at Stone Lab on the first night and in hotels during the week
- Three meals at Stone Lab (dinner on the first day; breakfast & sack lunch on the second day)
- Transportation
- Lab fee
- Course handouts

You will also be responsible for the costs of your own meals from Sunday dinner through Friday lunch. We anticipate using low-cost meal opportunities as much as possible.

Lodging

We will be staying in the dormitories at Stone Lab on Saturday, and at motels the other nights. You will need either a sleeping bag or your own sheets and pillowcase, plus a towel, for the night at Stone Lab. On the other nights, each motel room will have two double beds; in order to minimize costs, however, each room may have more than two occupants. As a result, some of you may choose to sleep in sleeping bags in the motel rooms, as well.

Equipment and Supplies

You should expect to bring along “normal” field equipment for this trip – raingear, sturdy footwear, hat, sunscreen, etc. Our work along the lakeshore will involve some wading, so you should also bring footwear and clothes that can get wet. You will need a field notebook (preferably with waterproof paper), ruler, pencils and pens, and a collection of 5-6 colored pencils. You may want to bring a camera, hand lens, and rock hammer, if you have them.