

Environment and Natural Resources 611:

Great Lakes Education Workshop

Quarter Credit Hours – 3 under/grad

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

Catalog description: Techniques and curricula for presenting interdisciplinary aspects of the Great Lakes in formal and nonformal education settings.

Course goals:

- To provide experience with a variety of instructional strategies for infusion of aquatic information into standard curriculum topics, middle school level
- To introduce sources of biological, earth and physical science information for aquatic education
- To provide experience with the resources of Lake Erie and the Island region
- To assist teachers in integrating Great Lakes science content and activities with Ohio's Science Academic Content Standards

Format: A hands-on workshop based on learning by doing. Individual and cooperative group activities in the classroom and outdoors. Attention to learning styles, applications of educational research, regional education opportunities and resources, and curriculum needs at different grade levels and in nonformal settings. Classwork will take us to at least four of the Lake Erie islands.

Topics will include:

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|----------------------------------|-------------------------------------|
| Geography of the Great Lakes | Invading species |
| Ecological relationships | Toxins in the water environment |
| Coastal processes and erosion | Historical importance of the region |
| Water, land and air interactions | Shipping on the Great Lakes |
| Fish and fisheries | and more! |
| Human impacts on Great Lakes | |

Course Evaluation is a combination of individual and group assignments:

- For groups : 20% With others teaching same grades, develop a unit plan
 applying course principles and information for one topic set
 15% Cooperative learning participation and data collection/analysis
- Individually : 40% Portfolio of daily assignments synthesizing each day's work
 25% Design a method of transforming an activity into Internet interactive form

Grades for this course will be posted with first term summer courses.

Course fee of \$30 payable in class covers all “text” materials.

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