

# Workshop in Environmental Education: Water and Wildlife Training for Educators

ENR 5690 Term: Summer

## Course Information

- **Course times and location:**

One-week course held at Stone Laboratory, Put-in-Bay, Ohio, June 12 - 18, 2023

Monday check-in and orientation. Class meets Monday evening, 4 pm - 8 pm; Tuesday - Saturday, 8 am - 7 pm with breaks for lunch and dinner (further evening class activities may also be scheduled); and Sunday, 8 am – 12 pm.

- **Credit hours:** 2

- **Mode of delivery:** In Person

## Instructor

- **Name:** Angela Greene & Lyndsey Manzo

- **Email:** [greene.792@osu.edu](mailto:greene.792@osu.edu) & [manzol.8@osu.edu](mailto:manzol.8@osu.edu)

- **Preferred means of communication:**

- Our preferred method of communication for questions is email.
- Our class-wide communications will be sent via email.

## Course Prerequisites

- Junior rank or above by summer of enrollment or permission of instructor.
- Content is geared towards those currently working or intending to work with grades 4-16 students or in nonformal settings.



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## Course Description

A field-based opportunity to receive certification in *Project Wild*, *Project Wild Aquatic*, *Science and Civics*, *Project Wet*, and *Healthy Water, Healthy People* educational curricula.

Participants will:

- use the resources of Stone Laboratory, Lake Erie and the Island region to gain hands-on experience with the lessons.
- practice and model the use of inquiry-based pedagogical strategies.
- identify lesson alignments to state standards and Great Lakes Literacy Principles.
- explore and critically evaluate online Great Lakes resources that can supplement water and wildlife curricula.
- network with colleagues to expand a science education community of practice.
- develop a plan for integrating multiple lessons into their specific educational settings.
- experience stewardship activities for enhancing community understanding and the Great Lakes environment.

This is an immersive, hands-on workshop based on learning by doing, involving individual and cooperative group activities in the classroom and outdoors. Specific attention will be given to pedagogical strategies and scientific practices, applications of educational research, and regional education opportunities, curriculum, and resources. Classwork will take us to multiple Lake Erie islands and coastal areas.

## Course Materials, Fees and Technologies

### Required Materials and/or Technologies

- All curriculum materials will be provided free of charge to participants.
- Internet use will be frequent so a laptop computer equipped for wireless access will be helpful.

## Descriptions of Major Course Assignments & Grading

<u>Major Assignments</u>		<u>Grading Scale</u>	
Daily participation in class activities	20%	90-100%	A
Daily assignments based on class activities	10%	80-89%	B
Collaborative Integration Plan	30%	70-79%	C
Group Investigation Presentations	20%	60-69%	D
Peer Teaching	20%	<60%	E



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# Course Schedule

Each day's class will be a combination of lessons from all four curriculum guides along with demonstration and practice of instructional methods. Specific lessons from each curriculum guide will be chosen based on participants' needs. Educators may expect to use activities just as they would in their formal or nonformal settings, and best practices in science/environmental education will be modeled.

In addition to curricular lessons, daily hands-on field trips or science experiences will be scheduled. Please note, all plans are tentative based on weather, class readiness, and availability of lab resources.

Day	Activities
Monday	Evening: Participant introductions and course overview; Pre-assessment Introduction to curriculum & literacy frameworks; Field collection techniques
Tuesday	Daily Theme: <i>Land and Water Interactions</i> Afternoon: Field Trip to Kelleys Island
Wednesday	Daily Theme: <i>Organisms, Habitats and Ecosystems</i> Afternoon: Science Cruise
Thursday	Daily Theme: <i>Human and Nature Interactions</i> All Day: Field Trip to Mainland, East Harbor State Park, Old Woman Creek
Friday	Daily Theme: <i>Assessing Water Quality</i> Afternoon: Macroinvertebrate sampling on Alligator Bar Evening: Research brief, followed by guest lecture
Saturday	Daily Theme: <i>Water and Wildlife Impacts on Society</i> Evening: Field Trip to South Bass Island State Park
Sunday	Morning: Presentation of Collaborative Integration Plan and field collection research Post-assessment and evaluations



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