



Course Syllabus

Overview

Inland lakes are complex ecosystems and are affected by both the people that live near them as well as the water that drains into them. Michigan alone is blessed with over 11,000 inland lakes and each one provides a unique recreational, scenic, and environmental benefit. The Introduction to Lakes Online course will explore the many dimensions of inland lakes—including riparian rights, shorelines, ecology, aquatic plants, citizen involvement, and much more. The course is designed for anyone with an interest in lakes including lakefront homeowners and environmental professionals.

Course Content

Introduction to Lakes Online consists of six units. Each unit includes prerecorded video lectures, facilitated discussion forums, exploratory activities, and a quiz. Most of the course content is shared through video lectures, featuring water resource experts from Michigan State University Extension. All lecture videos are prerecorded and are close captioned. The discussion forums serve as an opportunity to engage with classmates and the course instructors. There are no right or wrong answers - forums are simply a place to share perspectives and pose questions. The quizzes are short, concise, and related to content in the videos, discussion forum, and activities. The course also includes three pre-scheduled live Ask-an-Expert webinars, featuring course instructors and outside experts on unit topics.

What to expect

Access to the course will be provided on a week-by-week, unit-by-unit basis with each new unit opening on Tuesday at 8:00 AM eastern. Each week a new unit will become available. You will not have access to all units at once. Your access to proceeding units will be based on completion of the previous unit's quiz. The quizzes are made up of 10 multiple choice and true/false questions. Once a unit is available to view, it will remain open. You can work on coursework at any time, the course site will be available 24 hours a day 7 days a week. It is expected that you will complete all course work for the assigned unit per week. Each unit will take approximately 2 hours to complete.

The goal of this course is to become more familiar with inland lakes and to learn from the instructors, as well as from other classmates. It is recommended that you review and respond to other participant discussion forum submissions.

Ask-an-Expert webinars

The course includes three live Ask-an-Expert webinars. During the webinar participants can type questions to a panel of course instructors and outside experts and the panel will answer the questions verbally. These webinars are hosted every other week during the course. Participation is encouraged, but optional. The webinars are recorded and posted to the course website.

Course Requirements

To receive an electronic certificate of completion you must receive an 80% or higher on all six unit quizzes. Note that you will have the ability to retake quizzes. It is expected that you will watch all video lectures and complete the activities. You do not have to take part in the Ask-an-Expert webinars however your participation is encouraged.

Technology Requirements

The course will have links to other websites and documents, some of which are in PDF format. It is recommended that you have the latest version of [Adobe Acrobat Reader](#) installed on your computer. The webinars use [Zoom](#), a free video conferencing service. Instructions on how to download and use Zoom can be found on the course website.

Course Instructors



Bindu Bhakta | bhaktabi@msu.edu

- Natural Resources Educator, MSU Extension
- B.S., Resource Ecology Management and Anthropology-Zoology, University of Michigan
- M.P.S., Agriculture, Horticulture, Cornell University



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- M.S., Aquatic Ecology, University of Calgary



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- B.A., Conservation Leadership, Lake Superior State University
- M.S., Fisheries and Wildlife, Michigan State University



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- Senior Environmental Quality Analyst, Michigan Department of Environment, Great Lakes, and Energy
- B.S., Fisheries and Wildlife Management, Michigan State University



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- B.A., Biology, Albion College
- M.S., Biological Sciences, University of Notre Dame
- Ph.D., Fisheries and Wildlife, Michigan State University



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- B.S., Land Use Planning and Economics, Northern Michigan University
- M.S., Natural Resource Economics and Policy, University of Maine



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- Government and Public Policy Educator, MSU Extension
- B.S., Natural Resources and Ecology, University of Michigan
- M.S., Community and Regional Planning, University of Texas at Austin



Dr. Lois Wolfson | wolfson1@msu.edu

- Water Quality Senior Specialist, MSU Department of Fisheries and Wildlife and Institute of Water Research
- M.S., Botany, Michigan State University
- Ph.D., Fisheries and Wildlife (Limnology), Michigan State University

2023 Course Schedule

Each course topic opens at 8:00 A.M. on Tuesdays beginning January 10th. Once a course topic is available it will remain open for the remainder of the course.

Open Date	Topic	Description
1/10/23	Getting Started	Explore the Introduction to Lakes course website and introduce yourself to the class and instructors via discussion forums
1/17/23	Lake Ecology	An introduction to lake ecosystems and the exploration of basic lake functions
1/24/23	Watersheds	Primer on the water cycle, hydrologic features of a watershed, and land use impacts to lake water quality.
1/31/23	Shorelines	Review of shoreline features and functions in inland lake ecosystems and best practices to protect water quality and lake habitat
2/7/23	Aquatic Plants	Introduction to plant identification, short and long-term management techniques, and regulations regarding aquatic vegetation in Michigan lakes
2/14/23	Water Law	Summary of federal, state, and local laws regarding riparian rights, navigability, and permitting on inland lakes in Michigan
2/21/23	Community Involvement	Review of institutions involved in lake management, coordinating with other lake groups, and components of a lake management plan
3/17/23	Certificate/CEU deadline	To receive a Certificate of Completion or Continuing Education Credits all course requirements must be met by this date.
Ask-an-Expert Webinars		
Wednesday February 1, 2023 Noon to 1:00 p.m. EST	Unit 1: Lake Ecology and Unit 2: Watersheds	
Wednesday February 15, 2023 Noon to 1:00 p.m. EST	Unit 3: Shorelines and Unit 4: Aquatic Plants	
Wednesday March 1, 2023 Noon to 1:00 p.m. EST	Unit 5: Law and Unit 6: Community Involvement	