

# Introduction to Lakes 6 Week Online Course

**NOW ENROLLING!**

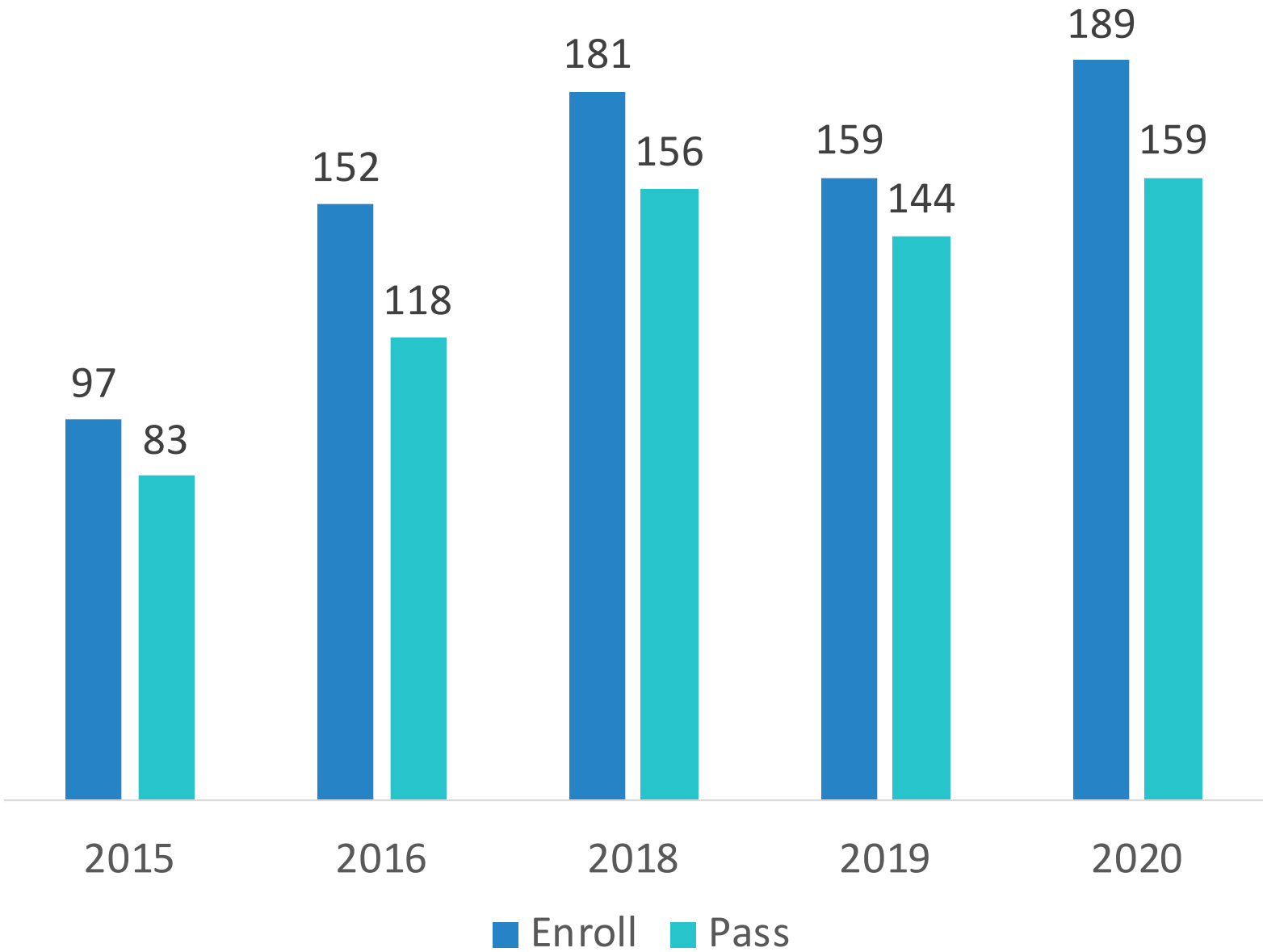
**LEARN ABOUT:  
LAKE ECOLOGY  
SHORELINES  
WATERSHEDS  
AQUATIC PLANTS  
AND MORE!**

Photo Credit: Susan George

**MICHIGAN STATE**  
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## Unit 1: Overview ▾

### Lake Ecology

Lake ecology is the scientific study of the interrelationships between living organisms and the chemical and physical components of the environment, in a non-flowing body of freshwater. Many factors influence lake ecology, including lake type, lake zones, water chemistry, light penetration, trophic status, food web structure, thermal stratification, basin morphometry, and human activities.

Unit 1: Introduction to Lake Ecology will provide a foundation for the entire Introduction to Lakes course.



A lake's condition is a result of complex relationships between organisms, water chemistry, and the physics of water.

## Unit 3 Activity - Erosion and Shorelines

Unit 3 Activity: Erosion and Shorelines

Erosion Photo #1



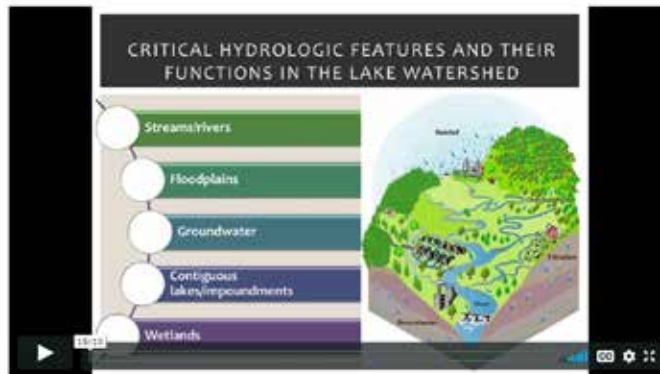
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## Unit 2.1: Watersheds and Land Use Video ▾

### Lakes and Their Watersheds, Part 1

This video lecture will highlight the water cycle, critical hydrologic features of a watershed, and how land use and land cover can impact watersheds.

\*\*This video is NOT available for download




Recommendations for lakescaping seem to contradict recommendations for landscaping to reduce tick habitat. How to reconcile these two goals in a state with increasing tick-borne disease?	A great solution, if ticks are a concern in your area, can foot wide barrier of wood chips or gravel between lawn migration into recreational areas.* You can imagine a t or landscape feature between natural shoreline veget
In a shallow lake that does not stratify, is the Carlson Trophic Index really relevant as a meaningful measurement?	Answered live
At which level of productivity is a lake considered most healthy?	Answered live
What type of lakes do spring fe...	
How do you determine if the 's water sourced or artesian?	



# Lessons Learned

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1. Use online instructional design expertise
  2. Have a Course Administrator
  3. Script out your lectures
  4. Offer Continuing Education credits
  5. You'll reach new audiences
  6. Discussion forums require structure, moderation and encouragement
  7. Q&A sessions are important
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Introduction to Lakes  
course details at:

[canr.msu.edu/lakesonline](https://canr.msu.edu/lakesonline)

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