

About the Program

The University of Minnesota Extension Shoreland Education Program provides information, practical experience, and resources for people interested in practicing or promoting shoreland stewardship. The Shoreland Education Program is based at the University of Minnesota Extension with cooperation from the University of Minnesota Water Resources Center and Minnesota Sea Grant Program. Our goal is to educate Minnesota citizens about shoreland management to improve water quality, habitat, and aesthetics of our lakes and rivers.

Workshops are offered on a regular basis throughout Minnesota. We also provide educational products, including the Minnesota Shoreland Management Resource Guide (www.shorelandmanagement.org), fact sheets, and educational how-to DVDs and videos. You may order materials online at www.extension.umn.edu/shoreland. Current and archived editions of our bi-monthly newsletter, *From Shore to Shore*, may be accessed online at www.shorelandmanagement.org.

You can play a vital role in protecting your local shorelands. Past participants have restored shorelines, monitored lakes and rivers, helped prevent the spread of aquatic invasive species, created exhibits and taught youth, and initiated and strengthened local organizations.

Who Should Attend?

These workshops are appropriate for waterfront property owners, lake association leaders and members, Master Gardeners, Master Naturalists, realtors, local government officials, nursery and landscape professionals, natural resource professionals, and anyone interested in practicing or promoting shoreland stewardship.

You Can Sponsor a Shoreland Workshop!

Developed in partnership with citizens, lake leaders and agencies, customized shoreland workshops provide classroom, field and hands-on instruction. Workshops are tailored to address your local shoreland needs and may last anywhere from one hour to two days. We can offer workshops in the evening, on weekdays, or on weekends depending on your needs.

Customized workshops may be offered for a specific group or lake association, or they may be open to the public. For information about how to host a workshop in your area, or to suggest a topic for future shoreland education workshops, please contact:

Eleanor Burkett at burke044@umn.edu
(888) 241-0720,

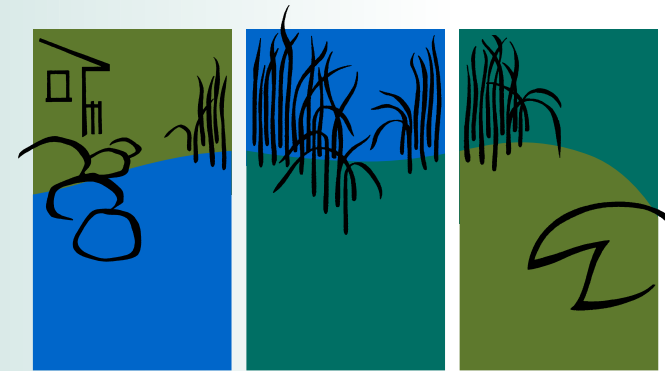
Mary Blickenderfer at blick002@umn.edu
(888) 241-0885 or

Karen Terry at kterry@umn.edu
(888) 241-0843

For a current listing of workshops and for more information about shoreland programs and educational materials, visit:
www.extension.umn.edu/shoreland

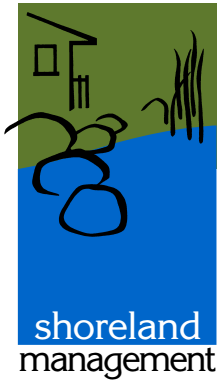


Improving Your Shoreland



Learn how you can protect and improve water quality while maintaining a healthy and attractive shoreline

University of Minnesota Extension
University of Minnesota Water Resources Center
Minnesota Sea Grant



Shoreland Management

Shoreland property should come with an owner's manual. In these workshops you'll receive practical solutions and technical information about the best ways to manage your property to

maintain the health and value of your lake or stream, now and for the future.

Essentials of Lakes and Rivers

This workshop covers what everyone should know about lakes and rivers—how they work, how our activities affect them, and how to get your community involved in keeping them healthy. Workshops are tailored to address your lake or river issues.

Erosion Control for Residential Properties

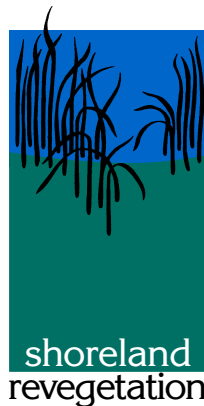
Learn to evaluate a shoreline, select appropriate erosion control methods, and develop a lake-friendly stabilization plan for an eroding shoreline. The workshop can include a hands-on erosion control installation.

Monitoring Bacteria or Macroinvertebrates

Monitoring *E. coli* bacteria or macroinvertebrates will help you characterize the health of your stream or lake. These workshops provide background on monitoring, training, equipment, and field experience for beginners.

Rain Gardens

Help keep our lakes and rivers clean by creating a garden on your property to capture rain and snow melt. Two workshops are available: rain garden design and hands-on rain garden planting.



Shoreland Revegetation

Learn how to protect and enhance your shoreline! These workshops emphasize a holistic approach—addressing property owner expectations, the beneficial functions of natural

shorelines, and shoreland regulations—that will enable you to make sound shoreland management decisions and implement revegetation projects.

Shoreland Buffers

During this one-day workshop, you will design a simple lake- or river-friendly shoreland buffer. This is a popular course for anyone wanting to understand the relationship between shoreland plants and water quality.

Shoreland Landscaping

This two-day series guides participants through a step-by-step process to design an environmentally friendly project for their shoreland property.

Shoreland Planting

Participants spend one day learning about and assisting with site preparation and planting an actual shoreland revegetation project.

Shoreland Maintenance

This one-day workshop involves participants in maintenance and monitoring of one or more existing shoreland landscaping projects. Strategies for weed and pest control, traffic management, erosion control, and replanting will be covered. Learn from the successes and challenges of other projects.



Shoreland Plants

Knowing and understanding the native plant communities as well as harmful invasive plants and animals that threaten them will help protect the health of your lake or stream.

Aquatic or Wetland Plant Identification

In these 1 1/2-day workshops, participants learn to use a plant key and gain valuable field experience useful in lake mapping, lake management plans, shoreland restoration, and invasive plant monitoring and control.

Aquatic Invasive Species

Protect lakes, rivers, and your shoreland investment from harmful aquatic invasive species. Learn to identify and monitor invasive plants and animals, understand the threats they pose, and help prevent new introductions. Workshops can be customized to address curlyleaf pondweed, Eurasian watermilfoil, purple loosestrife, or zebra mussels. Your community can help stop the spread of invasive species by joining the Stop Aquatic Hitchhikers!™ campaign.

Algae Management

In this half-day workshop, shoreland property owners, lake association members and natural resource professionals will learn why algae become a nuisance in only some of our water bodies and discover what methods are effective in reducing or controlling this common summertime nuisance.