

Custom Workshops offered by Iowa Project WET

Overview

Iowa Project WET offers several workshop options. These workshops are available by request of a school, school district, nature center or other host. Each workshop includes all workshop materials, a facilitator to lead the workshop, and a Project WET publication for each participant. The host provides a location and recruits the participants. Select one of the custom workshops below or work with Iowa Project WET staff to design your own.

Prices

Non-credit workshops range from \$15/participant to \$75/participant. Credit workshops range from \$75/participant to the current cost of 1 hr of graduate credit at the University of Northern Iowa. Prices vary depending on workshop length, number of workshop sessions, available supplementary funding, required materials and credit option. Host sites may add an additional fee for providing meals or to cover the cost of room rentals.

Workshop Facilitators

The Iowa Project WET Facilitator network is made up of leading Iowa educators, teachers and naturalists who have completed a Project WET Train-the-trainer workshop and maintain their credentials through participation in facilitator update events. All Iowa Project WET facilitators have a minimum of a B.A. or B.S. degree in science or science education and 5 years experience in science education. All facilitators of credit workshops have a minimum of an M.A. or M.S. degree in science education and 10 years experience in professional development.

Workshop Design

Project WET can design a professional development workshop that meets your needs. Workshops can vary in length from 3 hours to 16 hours. Workshops can be held after school, during a school day, or on a weekend. Workshops can be completed in 1 segment or many segments. Contact Marcy Seavey, IAS Program Director for more information or to schedule a workshop (iowawet@sunny.uni.edu or 319-273-7486).

Suggested Workshop Schedules

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Workshop Title: Discover a Watershed: The Missouri

Target Grades: 4th-8th

Options: 3.5 hours or 6 hours (see schedule)

Workshop Description: Take a journey along the world's most changed river, the Missouri. Participants will experience select activities from the guide that teach about how the river and management of the river have changed over time. Simulates the causes of droughts and floods, travel down the Missouri in a Bullboat and create a river model that illustrates the flood control power of a dam. The Guide activities combine science, social studies, and mathematics concepts and include writing in assessments. Activities are matched to the National Science Standards and other subject area standards. Book comes with wall map of Missouri River Watershed.

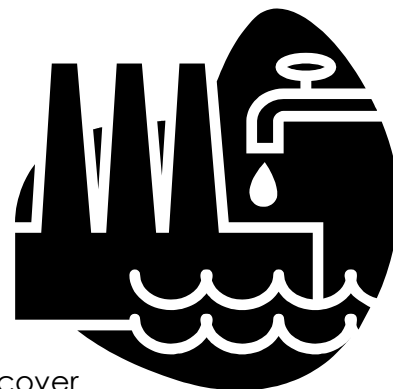
Registration includes workshop materials, facilitator stipend and travel and a copy of **Discover a Watershed: The Missouri** teacher's guide (with background and 36 activities) for each participant. Minimum of 10 participants. Contact: Marcy Seavey, iowawet@sunny.uni.edu or 319-273-7486 for information about availability and pricing.

Time	Activity	Topics
15 min	Introductions	Set workshop goals, introductions
50 min	Bullboats and Barges (p. 187)	Historic modes of travel, channelization, cross-section graphing, modeling
45 min	Blue Beads of the Missouri River (p. 110)	Movement of water in a river system through the seasons, modeling, whole body activity, dams, flooding
10 min	Break	
60 min	Missouri River Extremes (p. 100)	Causes of floods, droughts, probability
30 min	Project WET Overview	(this is the last item in the 3.5 hr schedule.)
15 min	Break	(or longer break for lunch)
45 min	Sum of the Missouri River Parts (p. 170)	Best practices in land management, watersheds and communities, water management, water pollution
60 min	The Missouri River Watershed Manager (p. 286)	Balance between water users
45 min	Activity Search	Participants explore the guide, find an activity that meets one of their own standards and share with the group.
15 min	Evaluations Closing	



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Workshop Title:**Healthy Water, Healthy People – Focus on Water****Target Grades:** 6th-12th grades and naturalists**Options:** 4 hours, or combined with Focus on People into 8 hours, or can be stretched into 16 hour, 2-day graduate credit workshop.

Workshop Description: During your school's end of the year field day and picnic, your class tests the water in a local stream and discover that the pH is 6.5 and the Dissolved Oxygen level is 9. What do the numbers mean? Are they good... bad? Who cares? Why is water quality monitoring important and what makes a sound water quality monitoring plan? This workshop is designed to provide educators with hand-on classroom activities that cover water quality concepts including: accuracy, precision, units of measurement, chemical vs. biological assessments, seasonal patterns and deviation from norm values. Participants will complete several activities from the guide including Snapshots in Time, an activity that models development of a comprehensive water monitoring plan for a local stream. The perfect supplement for classrooms involved in IOWATER, GLOBE Hydrology measurements or other water quality monitoring programs. Activities provide link between water quality service projects and national standards related to the process of science and science as inquiry.

Registration includes workshop materials, facilitator stipend and travel, and a copy of the **Healthy Water, Healthy People** teacher's guide for each participant. Minimum of 10 participants. The **Healthy Water, Healthy People Test Kit Manual** may be included at a special discount rate. When combined with Healthy Water, Healthy People – Focus on People, this workshop may be offered for 1 hr of UNI Graduate Workshop Credit or possible AEA credit. Contact Marcy Seavey, iowawet@sunny.uni.edu or 319-273-7486 for information about availability and pricing.

Time	Activity	Topics
15 min	Introductions	set workshop goals, introductions
60 min	Water Quality Windows (p. 164)	an introduction to water quality, the "so what?"
40 min	Hitting the Mark (p. 49)	accuracy, precision, measurement skills, protocols, importance of repeatability in scientific research
10 min	Break	
15 min	Project WET Overview	where to go for additional help.
45 min	Invertebrates as Indicators (p. 194)	biological assessments, multiple measurements increase confidence in results, measurement skills
45 min	Snapshots in Time (p. 61)	seasonal variation in water quality, importance of baseline data, creation of a water quality monitoring action plan
10 min	Evaluations Closing	



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Workshop Title:

Healthy Water, Healthy People – Focus on People

Target Grades: 4th-12th grades and naturalists

Options: 4 hours, or combined with Focus on Water into 8 hours, or can be stretched into 16 hour, 2-day graduate credit workshop.

Workshop Description: A human can live two weeks or more without food, but less than 5 days without water. In this workshop, you will explore concepts related to providing safe, clean drinking water for communities and what happens when water quality is compromised. In the activity Washing Water, you'll explore how water moves from its source, through the water treatment system, into your house, through the wastewater treatment system and back into the environment. Next, you'll go on a simulated back packing trip. Can your group select safe water sources and avoid illness? Compare choices made by various groups of backpackers and analyze the data to determine why some groups got sick. Learn about various water borne diseases and make the connection between sound water resource management and human health and quality of life.

Registration includes workshop materials, facilitator stipend and travel, and a copy of the **Healthy Water, Healthy People** teacher's guide for each participant. Minimum of 10 participants. The **Healthy Water, Healthy People Test Kit Manual** may be included at a special discount rate. When combined with Healthy Water, Healthy People – Focus on Water, this workshop may be offered for 1 hr of UNI Graduate Workshop Credit or possible AEA credit. Contact Marcy Seavey, iowawet@sunny.uni.edu or 319-273-7486 for information about availability and pricing.

Time	Activity	Topics
15 min	Introductions	set workshop goals, introductions
65 min	Washing Water (p. 145)	water treatment, waste water treatment
45 min	Looks aren't everything (p. 99)	simulation camping trip, water borne disease, human health & risk factors, mapping, analysis
10 min	Break	
45 min	A Life and Death Situation (p. 125)	water borne diseases, symptoms and treatment
15 min	Project WET Overview	where to go for additional help
35 min	Setting the Standards (p. 107)	process for setting water quality standards, risk analysis
10 min	Evaluations Closing	



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