

**Courses can be applied to
Michigan Tech's M.S. in Applied
Science Education.**

For more information, contact:

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Information, contact:**

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Michigan Tech

**2009
Courses
for
Teachers**



Summer 2009 Teacher Courses

Ecology of Isle Royale

June 14 - 20

Explore the ecology and history of Isle Royale through wilderness, backpacking, conversations with researchers, and examination of research data. 3cr. ED5560

Great Lakes Watershed Investigations

June 15-19

Investigate the physical, chemical and biological components of the Great Lakes ecosystem, using the Lake Superior watershed as the classroom. 3cr. ED5640



Earth Systems Institute I

Dates June 15—19

K-12 teachers will use the scientific method in earth system science to make observations, develop hypotheses, collect data, test hypotheses, and communicate results. A field-based course conducted on the Keweenaw Peninsula. 2 cr. GE5230

Geology of Utah's National Parks

June 16 - July 1

Field course based in the National Parks and Monuments of eastern Utah. Learn how climate, sea level, and mountain-building change landscapes through time. 4 cr. GE5130

Advanced Ecology of Isle Royale by Sea Kayak

June 21—27

Introduction to sea kayaking, ecology, and research of Lake Superior on Isle Royale's coastlines. 3cr. ED5630

Lake Superior Ecology Aboard a Tallship

June 21 - 26 and June 28 - July 3

Tallship Dennis Sullivan is your classroom for study of lake ecosystems. Participants serve as crew to sail around the Keweenaw Peninsula. 2 cr. ED5640

Forest Ecology & Management

June 21—26

Participants will investigate forests through lecture, data collection, field trips, and technology applications. 3 cr. ED5630



Future Fuels from Forests

July 6 - 10

Investigate the technological, ecological, social, economic, and political issues associated with ethanol production from woody biomass and switch grass through lectures, hands-on data collection and analysis, field trips, lab experiences, and discussions with research scientists. 3 cr. ED5630

Global Change

July 13 - 17

Investigate effects of global change on ecosystems, including impacts of changing climate, elevated carbon dioxide, ozone levels, acid rain, and invasive species. Addresses social studies and science standards. 3cr. ED5641

Engineering Applications in the Physical Sciences July 13-24

How engineers use principles from physical sciences to solve problems and design systems. Concepts linked to national and state science standards. 4cr. ENG5200

ASM Materials Camp

July 20 - 24

Teachers will learn the basics of Materials Science as taught at the high school level. 2 cr. ED5600

Engineering Applications in Earth Sciences July 27 - Aug 7

Problem-solving in the earth sciences, emphasizing applications in mathematics and science teaching. 4 cr. ENG5300

