

2007 Summer Courses for Teachers

MichiganTech

Apply These Courses Toward a Planned Program for Professional Certification.

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Course Registration and Information

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Information on Master of Science in Applied Science Education

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Geology of Utah's National Parks • June 16-July 1

Field course based in the Nat'l Parks and Monuments of east Utah. Learn how climate, sea level, and mountain-building change landscapes through time. 4 cr. GE 5130

Ecology of Isle Royale • June 17-23

Explore the ecology and history of Isle Royale through wilderness backpacking, conversations with researchers, and examination of research data. 3 cr. ED 5560

Using Environment to Teach Science and Social Studies • June 18-20

Hands-on introduction to Michigan's new curriculum units for grades 4-9. Ecosystems and biodiversity; land use; water quality; air quality; energy resources. 1 cr. ED 5640

Engineering for Educators • June 18-22

Introduces engineering problem-solving and design process, with emphasis on engineering applications in math and science teaching. 2 cr. ENG5102

Statistics and Probability Institute for Teachers • June 18-29

Strengthen your understanding of statistics and probability topics required at the 9-12 level and issues associated with teaching these topics. 4 cr. MA5910

Developing Algebraic Thinking • June 24-29

Video cases of mathematics teaching and learning will be used to analyze and understand algebraic thinking in grades 5-9. 3 cr. ED 5665

Global Change • June 25-29

Develop lessons to engage students in real-world study of global climate change and its effects on ecosystems. 3 cr. ED 5641/FW 5641

Engineering in Earth Science • June 25-29

Problem-solving in the earth sciences, emphasizing applications in mathematics and science teaching. 2 cr. ENG5302



Advanced Ecology of Isle Royale • July 1-7

Explore the terrestrial and aquatic ecology of Isle Royale in-depth through field methods, wilderness immersion, and paddling the park's waterways. 3 cr. ED 5640

Engineering for Earth Science Education • July 9-13

Lab and field work studying water quality assessment using Palm-based labs and scanning electron microscopes to build student skills. 2 cr. ENG 5301

Forest Ecology and Resources • July 16-20

Bring the forest into your K-12 classroom with an exploration of forest ecology, management, wildlife, soils, insects, and disease. 3 cr. ED 5630

Mathematics and Navigation for Teachers • July 16-20

Learn theory and practice of marine navigation; solve navigation problems with math, instrumentation, and GPS on the Michigan Tech research vessel, *Agassiz*. 2 cr. ED 5661

Engineering Applications in the Physical Sciences • July 16-27

How engineers use principles from physical sciences to solve problems and design systems. Concepts linked to national and state science standards. 4 cr. ENG 5200

Lake Superior Ecology Aboard a Tallship • July (dates TBA)

Tallship *Denis Sullivan* is your classroom. Participants serve as crew to sail around the Keweenaw Peninsula. 2 cr. ED5640

Great Lakes Maritime Transportation • July 30-Aug 3

Explore the historical, economical and environmental aspects of Great Lakes shipping at the "head of the lakes." Based in Duluth, participants will tour the harbor, north shore, and meet with industry. Addresses social studies and science standards. Gr. 4-12. 2 cr. ED 5680