

2007 Summer Courses for Teachers

Apply these courses toward Michigan Tech's Master's Degree in Applied Science Education or toward your planned program for professional certification.

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. GE5130

*Cost: Resident—\$500, Non-Resident—\$800

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. ED5560

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. ED5640

*Cost: TBD

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

*Cost: Resident - \$400

Global Change Inst. for Teachers • June 25-29

Develop lessons to engage students in real-world study of global climate change and its effects on ecosystems. 3 cr. ED5641 or FW5641

*Cost: \$600

Engineering in Earth Science • June 25-29

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

*Cost: Resident—\$400

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. ED5640

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. ENG5301

*Cost: Resident—\$400

Forest Ecology and Resources • July 9-13

Bring the forest into your K-12 classroom with an exploration of forest ecology, wildlife, soils, insects, disease, & management.

3 cr. ED5630

*Cost: \$850

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. ED5661

*Cost: \$1,010 + \$320 lab fee

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. ENG5200

*Cost: Resident—\$400, Non-Resident—\$800

Lake Superior Ecology Aboard a Tallship • July 16-21

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

*Cost: \$1,640

Great Lakes Maritime Transportation • July 30-Aug 3

Explore maritime transportation topics (history, economic and environmental issues, geography) while touring Soo Locks and Upper Peninsula ports. Addresses social studies and science standards, grades 4-12. 2 cr. ED5680

*Cost: \$450

Teaching American History: Windows to the Past • Aug 20-24

Study artifacts, photos, streetscapes and diaries to help students explore the past. Content-rich course taught by an expert on the Upper Peninsula. 2 cr. ED5680

*Cost: \$275