

## Summer 2007 Isle royale courses

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### **Ecology of Isle Royale • ED 5560 • June 17-23, 2007**

This one-week, field-based camping experience in Isle Royale National Park prepares teachers to help students understand ecological concepts, wilderness ethics, and cultural history through direct experience, observation, and discussion. The interactive course is designed to provide elementary, middle, and high school educators with standards-based professional development and time to plan, discuss, and reflect on their teaching. Participants work in groups, learning and sharing their teaching experience and ideas with other educators. The course includes five nights of wilderness camping and backpacking, visits with researchers, and explorations of cultural sites and a variety of terrestrial and aquatic habitats, and incorporates the latest research in the park. Middle school and high school educators with extensive Isle Royale experience lead this course, and groups will be divided by grade level taught; elementary to middle school and middle school to high school. The course begins and ends in Copper Harbor, MI

Isle Royale is a unique wilderness ecosystem, isolated by the extreme influences of Lake Superior, and well known for the world's longest-running predator-prey study of wolves and moose. A rich history of research and an isolated setting make Isle Royale an ideal location for studying natural and human-caused change with interdisciplinary applications to math, sciences, writing, and social studies. This course culminates in the creation of lesson plans applying your experiences on Isle Royale to classroom teaching, to be submitted after completion of the trip.

**Cost:** \$500 resident, \$800 non-resident per participant, this covers \*MTU tuition, course materials, transportation from Copper Harbor, Michigan to Isle Royale, six days of food, and some camping equipment. Limited to 18 participants.

**Credit:** 3 graduate credits through Michigan Technological University's Department of Education

\*A departmental stipend and funding from a Michigan Department of Education Improving Teacher Quality grant to Michigan Technological University help to reduce official MTU tuition (2006/07 Official MTU tuition per credit rates are: Undergraduate Resident \$275, Undergraduate Non-Resident \$668 and Applied Science Education Graduate Resident and Non-Resident \$345).

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### **Advanced Ecology of Isle Royale • ED 5640 • July 1-7, 2007**

This field-based course set in the wilderness backcountry of Isle Royale National Park builds on the materials covered in the Ecology of Isle Royale course, ED 5560. This course involves a more in-depth examination of aquatic and terrestrial ecology and requires a solid foundation in wilderness skills and ethics. Paddle through the wilderness exploring diverse aquatic habitats, including Lake Superior and inland lakes. Hike inland to study streams, ponds, wetlands, ridges and forests. Hone your senses to observe the world around you and expand your skill of identifying native and non-native species to aid in uncovering the interactions between organisms. Group discussions will help you to bring your experiences to your classroom by forming links between Isle Royale and your home communities and sharing ideas for lesson plans, class projects, and creative teaching.

This course focuses on participant involvement with group discussions and team and individual activities. It includes unique opportunities to visit with researchers and collect field data to contribute to the park's natural resources monitoring projects. The instructor is an educator with extensive wilderness and natural history experience at Isle Royale. This course culminates in the creation of lesson plans applying your experiences on Isle Royale to classroom teaching, to be submitted after completion of the trip. The course begins and ends in Copper Harbor, MI.

**Cost:** \$500 resident, \$800 non-resident per participant, this covers \*MTU tuition, course materials, transportation from Copper Harbor, Michigan to Isle Royale, six days of food, and some camping equipment. Prerequisite: ED 5560, or permission of instructor. Limited to 9 participants.

**Credit:** 3 graduate credits through Michigan Technological University's Department of Education

\* A departmental stipend and funding from a Michigan Department of Education Improving Teacher Quality grant to Michigan Technological University help to reduce official MTU tuition (2006/07 Official MTU tuition per credit rates are: Undergraduate Resident \$275, Undergraduate Non-Resident \$668 and Applied Science Education Graduate Resident and Non-Resident \$345).

## Isle royale course Application

Please select course.

\_\_\_\_\_ Ecology of Isle Royale • ED 5560 • June 17 – 23, 2007 (limited to 18 participants)

\_\_\_\_\_ Advanced Ecology of Isle Royale • ED 5640 • July 1-7, 2007 (limited to 9 participants)

Please type or print in ink. Duplicate as needed.

Name \_\_\_\_\_  
First Last

Home address \_\_\_\_\_  
Street City State ZIP

Date of birth \_\_\_\_\_ Social Security Number \_\_\_\_\_

Work phone \_\_\_\_\_ Home phone \_\_\_\_\_

Work Fax \_\_\_\_\_ Email \_\_\_\_\_

Home Email \_\_\_\_\_

School name \_\_\_\_\_

School address \_\_\_\_\_  
Street City State ZIP

Current subject areas taught \_\_\_\_\_

Grades taught \_\_\_\_\_

School District \_\_\_\_\_

I agree to all of the following to participate in the Isle Royale Summer 2007 Institutes:

- 1) Read and respond to all preparatory materials and communications prior to the institute.
- 2) Consent to the release of my name, address, and email address to other participants in the institute.
- 3) Fully participate in each day of the institute.
- 4) Meet the requirements of the syllabus for the institute.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Return your completed application by **April 1, 2007** to:

Lori Witting  
Professional Development Coordinator  
Educational Opportunity/MTU  
103 Alumni House  
1400 Townsend Drive  
Houghton, MI 49931-1295  
Phone: 906/487-2263  
Fax: 906/487-3101  
Email: [lori@mtu.edu](mailto:lori@mtu.edu)

Applicants will be notified of selection by **April 15, 2007**. Upon notification of selection, participants will be provided with information regarding the registration fee.