Summer 2012 Isle royale Moose Watch for Educators
Isle Royale for Educators: ED5560 • July 31 – August 8, 2012

Course Description:
Moose Watch for Educators is a unique field experience in support of the ecological study of wolves and moose at Isle Royale National Park. Educators will receive the technical instruction needed to participate as a member of a backcountry research team collecting moose bones and performing field necropsies on moose kill sites. Research teams will be operating in an off-trail wilderness setting involving travel by canoe and foot. They will learn research methods, backcountry navigation, and wilderness living skills. The course will integrate aspects of earth science, geography, anatomy and physiology, and general ecology and mathematics. Moose pathology and anatomy will be an integral instructional component of the program. Participants will present their findings to the researchers associated with the study as well as develop lesson plans for use at their local schools.

Course Objectives:
The general educational goal of this proposed course is to enhance problem-solving and project-based learning skills of teachers and other educators by providing standards-based instruction within a real world research setting. This goal will be fulfilled with curriculum incorporating more specific learning objectives and applicable activities related to:
• field research methods to generate measurable scientific data and samples
• application of knowledge in mammal anatomy and physiology in assessing kill sites and collecting specimens
• field navigation techniques using map and compass, celestial navigation, and GPS
• wilderness living and travel techniques in a remote, backcountry environment
• experiential learning instructional strategies for elementary and secondary students

Schedule of Activities: The field component of the course will be nine days in length. Travel to Isle Royale will be by NPS ferry Ranger III to/from Houghton, MI. On the island, orientation and training will take place at the Bangsund Cabin (home of the wolf-moose study) prior to the backcountry expedition. Travel to camp sites will be by canoe with on-foot excursions from base camps. Instruction in field research methods, backcountry navigation, and wilderness living skills are blended into daily activities. Participants will make presentations on their experiences to researchers associated with the study, and engage in reflective group discussions. Lesson plans integrating the study’s objectives will be submitted electronically for review and may be published.

Cost: $1,461 resident/non-resident per participant – this covers Michigan Tech tuition for 3 graduate credits, course materials, transportation from Houghton, MI to Isle Royale, and all food. Participants need to provide only basic backpacking equipment. Limited to 10 participants, so register soon!

Credit: 3 graduate credits through Michigan Tech’s Department of Cognitive and Learning Sciences
ISLE ROYALE MOOSE WATCH COURSE APPLICATION

Please type or print in ink clearly. Duplicate as needed.

Name___________________________________________________________________________________

First        Middle     Last

Home address____________________________________________________________________________

Street     City     State    ZIP

Date of birth________________ Social Security or MTU M Number___________________________________

Work phone _____________________________ Home phone ______________________________________

Work fax ______________________________ Work 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 2012 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.
5) Consent to posting my lesson plans submitted for this course on Michigan Tech websites.
6) Consent to the release of my photograph for publications.

Signature _____________________________________________ Date _____________________

Return your completed application by **April 13, 2012 along with a $100 deposit** to:

Lori Witting
Teacher Professional Development Coordinator
Cognitive and Learning Sciences/MTU
1400 Townsend Drive
Houghton, MI 49931-1295
Phone: 906/487-2263
Fax: 906/487-2468
Email: lori@mtu.edu

Applicants will be notified of selection by **April 27, 2012**.

Upon registration, participants will be provided a *Moose Watch* application, health form, and course details. Upon notification of selection, participants will receive information regarding final payment. The $100 deposit will be refunded if you are not selected for participation and will be applied to the registration fee if you are selected. Full payment is due on or before **May 11, 2012**.