

ED 5630 Forest Resources & Environmental Sciences Teacher Institute

Sunday-Friday, June 21-26, 2009 ~ Michigan Tech University

COURSE SYLLABUS

Coordinating Instructor

Joan Chadde, K-12 Education & Outreach Program Coordinator
Western Upper Peninsula Center for Science, Mathematics and Environmental Education
105 Dillman Hall, Michigan Technological University, 1400 Townsend Dr., Houghton, MI 49931-1295
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Course Faculty & Instructors (see Michigan Tech faculty bio's at: <http://forest.mtu.edu/>)

Michael Hyslop, M.S., School of Forest Resources & Environmental Sciences
Rita Koch, PhD candidate, School of Forest Resources & Environmental Sciences
Dr. Erik Lilleskov, USDA Forest Service – Forestry Sciences Laboratory
Dr. Linda Nagel, School of Forest Resources & Environmental Sciences
Jim Rivard, M.S., School of Forest Resources & Environmental Sciences
Jim Schmierer, M.S., School of Forest Resources & Environmental Sciences

Guest Presenters:

Dee Erbsch, Teacher, Stantion Township School
Pam Nankervis, wildlife biologist, Keweenaw Indian Community Tribal Natural Resources Dept.
Pat Todzowski, Keweenaw Land Trust

Course Credit: 3.0 graduate credits through Michigan Tech's Dept. of Education (requires 45 contact hrs)

Course Texts

Each participant will receive these books compliments of the Michigan Forest Foundation:

Burton V. Barnes and Warren H. Wagner, Jr. *Michigan Trees: A Guide to the Trees of the Great Lakes Region* (revised and updated). 2004. University of Michigan Press.
Kurta, Allan. 2005. *Mammals of the Great Lakes*. University of Michigan Press.
Dickmann, Donald and Larry Leefers. 2006. *The Forests of Michigan*. University of Michigan Press.

Course Description

This institute is designed to provide Gr. 3-12 teachers with the basic understanding of forest resources, ecology, and management, as well as current issues in forest management. Topics to be addressed during the Institute include: identification of common trees, forest measurements, soils, watershed management, forest and wildlife ecology, forest insects and disease, silvicultural prescriptions, and conservation biology. At the end of the Institute, participants should feel confident teaching their students about the ecology and management of forests.

Throughout the institute, participants will interact with scientists, forest management professionals, and educators through a combination of lecture, lab, and field trips. The institute will offer new teaching ideas that participants can incorporate into their classroom teaching, opportunities for real-world, inquiry-based experiences, and time to share best teaching ideas with their peers. This intensive interactive week-long course is designed to provide upper elementary, middle, and high school teachers with standards-based professional development and time to plan, discuss, create, renew, and reflect on their teaching. Teachers will

receive curriculum support materials and references to assist them in the development and implementation of a forestry teaching unit in their classroom that addresses Michigan and/or national curriculum frameworks. Careers related to natural resource management will be discussed by presenters throughout the week.