



Fall Field Trip Information



Field trips are available at a **NOMINAL FEE** to schools in the CCISD and GOISD school districts!

The field trips will be \$20 per class per field trip and a \$5 fee for each additional class *on the same day at the same location*. The CCISD will invoice each school at the end of the semester for a total number of field trips per school per semester.

How to Schedule a Field Trip

Teachers should complete a *Field Trip Request Form* which may be obtained through your school principal, the Center's website, or by calling the Center. On the form, select a program, several dates, and a location. Your school is encouraged to schedule multiple field trips for different classes for different times on the same date. After we receive your request form, we will schedule your field trip and send you a confirmation letter.

School should provide:

- First aid kit
- Chaperone (parent/teacher) for every 10 students.

Center will provide:

- A naturalist to lead your field trip and all supplies.
- Name tags for students.

Appropriate Dress

The weather can be very unpredictable. Please monitor weather conditions before your trip and require your students to **dress accordingly**. Shorts and sandals are discouraged.

Logistics

- You will meet your presenter(s) at the field trip site (unless other arrangements are made).
- If the school needs to cancel a field trip (in case of severe weather), please call the Center at 487-3341 at least 2-3 hours in advance!

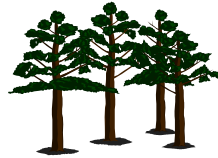
Expectations for Student Behavior

Please discuss with students before the field trip:

- Stay with your group leaders; don't wander off.
- Don't litter (bring a plastic bag to pick up litter!).
- Respect the plants and animals in nature. This is their home. Behave the way you would at your friends' house.

Locations for Fall Field Trips:

- Michigan Tech. Recreational Trails
- Lake Linden-Hubbell School Forest
- McClain State Park (Bear Lake Trail)
- Calumet Waterworks Park & School Forest
- Black Creek Nature Sanctuary (near Calumet)
- Baraga School Forest (near Pelkie)
- Ford Forestry Center (at Alberta)
- Bessemer City Park (Bessemer)
- Norrie Park (Ironwood)
- Porcupine Mountain State Park
- Your school
- Suggest a site!



To request a field trip:

Download a request form from our website!
<http://wupcenter.mtu.edu/education/fnftrip.htm>

Send your field trip request form to:
Western U.P. Center for Science, Mathematics
& Environmental Education

105 Dillman Hall – Michigan Technological University
1400 Townsend Dr., Houghton, MI 49931-1295
Fax: 906-487-1620 Tel: 906-487-3341

For more information, contact:
Michelle Miller, Outdoor Science Field Trip Coordinator
Email: michellem@mtu.edu or call: 906-487-3341

The Western Upper Peninsula Center for Science, Mathematics & Environmental Education is a partnership of Copper Country and Gogebic-Ontonagon Intermediate School Districts, and Michigan Technological University, serving 19 school districts and their communities in Houghton, Baraga, Gogebic, Ontonagon and Keweenaw Counties.

The Forest Field Trip Program is funded for 5 years by Jim and Mary Nelson's foundation with their full annual distribution. The Nelsons share the Center's commitment to providing opportunities for children to spend time out of doors learning about their natural environment.

Western Upper Peninsula Center for Science, Mathematics & Environmental Education



~ FALL 2009 ~

OUTDOOR SCIENCE FIELD TRIP PROGRAM for Grades K-6



Sept. 14 - Nov. 25, 2009

Fall Field Trip

Program Descriptions for Grades K-6

(Grades 1-4 receive a two-part program lasting 1 ½ - 2 hours; grades 5-6 teachers select one program.)



Pre-K & Kindergarten



Part A: Sense Detectives

By listening carefully, taking visual “snapshots,” and looking closely, students use all of their senses to interpret the world around them as they discover the living and nonliving parts of the forest. *Michigan GLEC's:* SCI: S.IP.00.11-14; S.IA.00.12-14; L.OL.00.11-12; SOC: K- C2.0.2. Duration: 45-60 minutes.

Part B: Can an Animal Live Here?

After identifying what all living things need to survive, students have fun searching the forest for the needs of real animals. *Michigan GLEC's:* SCI: S.IP.00.11-14, S.IA.00.12-14, L.OL.00.11-12., SE.SE.00.11, SOC: K- C2.0.2 Duration: 30-Duration: 45 minutes.



GRADE 1

Part A: Fly-Away!

While listening for birds, students will examine the question: why do birds migrate? Students will also classify and identify the characteristics of different birds. *Michigan GLEC's:* SCI: S.IP.01.11-12,14; S.IA.01.12-14; L.OL.01.13., L.HE.01.11-12 Duration: 45-60 minutes



Part B: Amazing Insects

Students will learn about the life cycle of several species of insects, some that create their homes inside of plant growths called galls Students will discover the complex interactions among living things in their environment as they become field scientists looking for the presence of insects and galls. *Michigan GLEC's:* SCI: S.IP.01.11-12,14; S.IA.01.12-14; L.OL.01.13,21; E.ES.01.11-12. MAT: G.LO.01.02. SOC: 1-C5.0.2. Duration: 45-60 minutes.



GRADE 2

Part A: To Be a Tree and Seed Get-Aways

Students will study trees and focus on what plants need to survive. They will describe the life cycle of familiar plants, along with the characteristics that are passed on. They will also identify and describe the importance of different methods of seed dispersal. *Michigan GLEC's:* SCI: S.IP.02.11-12,14; S.IA.02.1-14; L.OL.02.14,22 L.HE.02.13 Duration: 45 minutes.



Part B: Decomposition & Creepy Crawlies



Students will examine rotting logs and forest-floor decomposers, making observations about their physical properties. While exploring the process of decomposition and soil formation, they make and record careful measurements. Students will also investigate the life cycle of plants and animals they find on the forest floor. *Michigan GLEC's:* SCI: S.IP.02.11-14; S.IA.02.12-14; P.PM.02.12; L.OL.E.1-2. SOC: 2-G5.0.1-2. Duration: 45 minutes.

GRADE 3

Part A: Animal Structure, Function & the Challenge of Survival



Students will focus on the complex interactions between living and nonliving things. Questions we will attempt to answer include: 1) How are animals adapted to their habitat? 2) How much food do animals need to survive? 3) What happens when animals can't find enough food? 4) What survival strategies do animals have? *Michigan GLEC's:* SCI: S.IP.02.11-12, S.IA.02.12-14; L.OL.E.1; SOC: 2-G5.0.1-2. Duration: 45-60 minutes.

Part B: Have to Have Habitat



What is a habitat? Do all living things have one? Students will explore the parts of habitat and then do a “Habitat Hunt.” Through games students will learn the challenges animals have meeting their basic needs and how they adapt to their environment. *Michigan GLEC's:* SCI: S.IP.03.11-15; S.IA.03.11-15; S.RS.03.18; E.ES.03.52. MAT: M.UN.03.01, D.RE.03.01. SOC: 3 – C5.0.1 Duration: 45-60 minutes.

GRADE 4

Part A: Wildlife Signs

Students will go on a “scavenger hunt” to look for signs of wildlife. Students will also investigate the individual differences in organisms of the same kind while exploring for the basic needs of various organisms. *Michigan GLEC's:* SCI: S.IP.04.11-14; S.IA.04.12-14; S.RS.04.15,18; L.OL.04.16. L.EV.04.21-22. Duration: 45-60 minutes.



Part B: Wildlife Survival

Students will learn about food chains and food webs and the factors that affect wildlife populations. We will play two games (Oh Deer! & How Many Bears?) to investigate how differences in organisms might give them an advantage for survival and reproduction. *Michigan GLEC's:* SCIS.IP.04.11-14; S.IA.04.12-14; S.RS.04.15,18; L.OL.04.16. L.EV.04.21-22; L.EC.04.11.21. Duration: 45-60 minutes.



GRADE 5 (Choose one)

Spider Math



How do environmental factors such as sunlight and moisture influence the presence of spiders? What are some behavioral and physical characteristics of spiders? Students will use the scientific processes as they search for spiders then carefully record and analyze the data collected. Students will not handle spiders. *Michigan GLEC's:* SCI: S.IP.05.11-16; S.IA.05.11-15; S.RS.05.11-13,17; L.EV.05.11-12; MAT: N.MR.05.05 Duration: 1 ½-2 hours.

Aquatic Macro-invertebrate Stream Study



Students will collect, identify and inventory aquatic macro-invertebrates in one of our local streams. Students will examine their role in the food chain and as indicators of water quality in the environment. *Michigan GLEC's:* SCI: S.IP.05.11-16; S.IA.05.11-13; L.EV.05.11-12. Duration: 1 ½-2 hours.

GRADE 6 (Choose one)

Fabulous Fungi

Students will learn what fungus is and about its role as a decomposer in the forest ecosystem. We will hunt for the fruiting bodies (mushrooms) of fungus and classify what we find according to the nine major divisions of mushrooms. Students will also explore how mushrooms interact with their environment and other living things. *Michigan GLEC's:* SCI: S.IP.06.11-16; S.IA.06.11-13; L.OL.06.51-52. L.EC.06.22-23. Duration: 1 ½-2 hours.



Biodiversity Study

We will compare two different ecosystems by investigating plant and/or animal diversity through quadrat studies comparing biotic and abiotic factors. After discussing the role of biodiversity in nature, students will also investigate ways humans impact wildlife populations through two dynamic activities. *Michigan GLEC's:* SCI: S.IP.06.11-16; S.IA.06.11-13; S.RS.06.17; L.EC.06.31-32,41-42. MAT: A.RP.06.08-09 Duration: 1 ½-2 hours.

