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.
- Name tags for students and all necessary supplies.

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

Please discuss with students before the field trip:
1) Stay with your group leaders; don’t wander off.
2) Don’t litter (bring a plastic bag to pick up litter!).
3) Respect the plants and animals in the forest. This is their home. Behave the way you would at your friends’ house.

Locations for Fall Field Trips:
- Michigan Tech. Recreational Trails (Sharon Ave)
- 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 (Alberta)
- Bessemer City Park (Bessemer)
- Norrie Park (Ironwood)
- Porcupine Mountain State Park
- Your school
- Suggest a site to us!

To request a field trip:
Download a request form from our website! http://wupcenter.mtu.edu/education/falltrip.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:
Kathy Carter, Outdoor Science Field Trip Coordinator
Email: krcarter@mtu.edu or call: 906-487-3341

The Western Upper Peninsula Center for Science, Mathematics & Environmental Education is a partnership of Copper Country & Gogebic-Ontonagon Intermediate School Districts and Michigan Technological University serving schools and 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.

~ FALL 2008 ~
OUTDOOR SCIENCE FELD TRIP PROGRAM for Grades K-6

Sept. 15 - Nov. 21, 2008
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 learn about the living and nonliving parts of the forest. *Michigan GLEC’s*: SCI: S.IP.00.11-14; S.AI.00.12-14; L.O.L.00.11-12; SOC: K-C2.0.2 Duration: 45-60 minutes.

Part B: Can an Animal Live Here?
After a short introduction on 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.AI.00.12-14, L.O.L.00.11-12. SOC: K-C2.0.2 Duration: 30-45 minutes.

**GRADE 1**

Part A: Have to Have Habitat
What is a habitat? Do all animals 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 finding suitable habitat. *Michigan GLEC’s*: SCI: S.IP.01.11-12,14; S.AI.01.12-14; L.O.L.01.13; E.E.S.01.11-12. MAT: G.L.O.01.02. SOC: 1-C5.0.2. Duration: 45-60 minutes.

Part B: Fly-Away!
While listening for birds, students will examine the question: why do birds migrate? Students will then play several games illustrating the difficulty birds have while migrating and how humans & the environment may have an effect on them. *Michigan GLEC’s*: SCI: S.IP.01.11-12,14; S.AI.01.12-14; L.O.L.01.13. 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 also identify and describe the importance of different methods of seed dispersal, while classifying the plant seeds they collect in the forest accordingly. *Michigan GLEC’s*: SCI: S.IP.03.11-12,14; S.AI.03.11-14; S.RS.03.18; E.E.S.03.52. MAT: D.RE.03.01. SOC: 3 – C5.0.1. Duration: 45 minutes.

**Part B: Decomposition & Creepy Crawlies**
Starting with an examination of rotting logs and forest-floor decomposers, students will explore the process of decomposition and soil formation as they make and record careful observations. 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.AI.02.12-14; P.P.M.02.12; L.O.L.E.1-2. SOC: 2-G5.0.1-2. Duration: 45 minutes.

**Part A: Animal Habits, Habitat & the Challenge of Survival**
Students will focus on the complex interactions between living and nonliving things. Questions will be asked as: 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.AI.02.12-14; L.O.L.E.1. SOC: 2-G5.0.1-2. Duration: 45-60 minutes.

**Part B: Glorious Galls**
Students will learn about the life cycle of several species of insects that create their homes inside of plant growths called galls, allowing them to discover the complex interactions among living things in their environment. Students will then become field scientists looking for the presence of galls on goldenrod plants, measuring plants, and determining if the presence of galls might influence the height of plants. *Michigan GLEC’s*: SCI: S.IP.03.11-15, S.AI.03.11-15; S.RS.03.18; E.E.S.03.52. MAT: M.U.N.03.01, D.RE.03.01. SOC: 3 – C5.0.1. Duration: 45-60 minutes.

**Part A: Wildlife Signs**
Students will go on a “scavenger hunt” to look for signs of wildlife. Students will also investigate the behavioral and physical adaptations animals have to help them survive and will explore their source of energy for growth and repair. *Michigan GLEC’s*: SCI: S.IP.04.11-14; S.AI.04.12-14; S.RS.04.15,18; L.O.L.04.16. L.EV.04.21-22. Duration: 45-60 minutes.

**Part B: Wildlife Survival**
Students will learn about the basic needs of and factors that affect wildlife populations. They 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*: SCI: S.IP.04.11-14; S.AI.04.12-14; S.RS.04.15,18; L.O.L.04.16. L.EV.04.21-22; L.EC.04.11.21. Duration: 45-60 minutes.

**GRADE 3**

**Part A: 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. *GLEC’s*: SCI: S.IP.05.11-16; S.AI.05.11-13; 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.AI.05.11-13; L.EV.05.11-12. Duration: 1 ½-2 hours.

**Part A: Have to Have Habitat**
Students will go on a “scavenger hunt” to look for signs of wildlife. Students will also investigate ways humans impact wildlife populations through two dynamic activities. *GLEC’s*: SCI: S.IP.06.11-16; S.AI.06.11-13; L.O.L.06.51-52. L.EC.06.22-23.. Duration: 45-60 minutes.

**Part B: Can an Animal Live Here?**
Students will study trees and focus on what plants need to survive. They will also identify and describe the importance of different methods of seed dispersal, while classifying the plant seeds they collect in the forest accordingly. *Michigan GLEC’s*: SCI: S.IP.03.11-12,14; S.AI.03.11-14; S.RS.03.18; E.E.S.03.52. MAT: D.RE.03.01. SOC: 3 – C5.0.1. Duration: 45 minutes.

**Part A: Wildlife Signs**
Students will go on a “scavenger hunt” to look for signs of wildlife. Students will also investigate the behavioral and physical adaptations animals have to help them survive and will explore their source of energy for growth and repair. *Michigan GLEC’s*: SCI: S.IP.04.11-14; S.AI.04.12-14; S.RS.04.15,18; L.O.L.04.16. L.EV.04.21-22. Duration: 45-60 minutes.

**Part B: Wildlife Survival**
Students will learn about the basic needs of and factors that affect wildlife populations. They 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*: SCI: S.IP.04.11-14; S.AI.04.12-14; S.RS.04.15,18; L.O.L.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, moisture, and cover influence the presence of spiders? Students will use the scientific processes of observing, comparing, classifying, and describing as they look for spiders and record and analyze data about their frequency. Students will not handle spiders. *Michigan GLEC’s*: SCI: S.IP.05.11-16; S.AI.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.AI.05.11-13; L.EV.05.11-12. Duration: 1 ½-2 hours.

**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. *GLEC’s*: SCI: S.IP.06.11-16; S.AI.06.11-13; L.O.L.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. *GLEC’s*: SCI: S.IP.06.11-16; S.AI.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.