

**ECOS INSTITUTE I SCHEDULE**  
**University of Montana**  
**July 12 - 16, 2004**

**Monday July 12 - Meet at Greenough Park**

- 8:30 Teachers arrive and we do pre-institute assessment
- 9:00 Welcome and Introductions - Find Jigsaw Partners, Meet teams and learn about schools and teachers
- 9:45 Brief overview of ECOS Institute - Expectations, time commitment, registration for renewal credits, what is in packet
- 10:00 Asking and Answering Ecological Questions
- 10:30 BREAK**
- 10:45 Ecological Investigation
- 12:00 Pick up lunch and continue investigations**
- 2:30 Prepare butcher paper of question, approach, and findings
- 3:15 Present group findings - 10 minutes per team
- 4:15 Wrap up and reflection for Tuesday
- 4:30 Adjourn

**MATERIALS NEEDED:**

- |                                       |                |  |
|---------------------------------------|----------------|--|
| Butcher paper                         | Spades         | Handout on asking questions in Ecology     |
| Easel                                 | Scissors       | Handiwipes                                 |
| Tape Measures                         | Beater sheets  | Digital Camera                             |
| Insect Nets (aquatic and terrestrial) | Flagging       | Binoculars                                 |
| Wire Coat hangers                     | Field Guides   | Bug jars                                   |
| Collecting pans                       | First Aid Kits | Field Notebooks (yellow write-in-the-rain) |
| Forceps and dissecting pins           | Bug Repellent  | Tape                                       |
| Plastic cups                          | Light sensors  | Push Pins                                  |
| String                                | Thermometers   | Drinking water and cups                    |
|                                       | Magic Markers  |  |
|                                       | Plastic Tubs   |  |



Ecologists Educators and  
Schools: Partners in GK-12  
Education

32 Campus Drive  
Division of Biological Sciences | (406) 243-6016 | [www.bioed.org/ecos](http://www.bioed.org/ecos)  
Missoula, MT 59812

## Tuesday July 13, 2004 - Meet in UC 331

### **8:45 Coffee**

9:00 Welcome back - Reflection on inquiry from Monday  
Focused writing reflection and discussion  
Discussion of types of inquiry investigations  
Assessment on what do you need to know more about by end of lunch today

9:45 More details of ECOS - Philosophy, expected outcomes, expectations of participants, time commitment, registration for renewal credits, what is in packet and general questions

### **10:30 BREAK**

10:45 Poster session by ECOS fellows on their research - each fellow will present a research poster and provide a 5 minute summary

### **12:00 - 12:30 LUNCH**

12:30 Slide show by fellows of how their expertise connects to the National Science Standards - 10 minutes per team

2:00 Team breakout time to talk about opportunities in the schoolyards and the kinds of ecological investigations/ecology teaching currently done by teachers

### **3:00 Break**

3:15 Team reports back to whole group

4:00 Setting the stage for inquiry and ecology in k-12 classrooms

4:30 Adjourn

### **Materials:**

Butcher paper

Marking pins

Tape

Fellows presentations on disks

Digital Projector

Digital Camera

Fellows Posters



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**Wednesday July 14, 2004 - Meet at Lewis and Clark School**

8:45 Meet at Lewis and Clark School

9:00 Schoolyard ecology assessment

**10:30 Break**

10:45 Guided Inquiry on Schoolyard or at BiLo pond

12:30 Return to UM for Lunch

1:15 Making Ecological Laboratories at Schoolyards

2:15 Schoolyard habitat certification program

2:45 Break

3:00 Team break out time

4:00 Teams report back to group

4:30 Adjourn

**MATERIALS:**

Depends on Inquiry



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**Thursday July 15, 2004 - Meet at Target Range School**

- 8:45 Meet at School Parking Lot
- 9:00 Map Making by Steven Holloway - Cartographer and Artist
- 12:00 Lunch
- 12:30 Continue Mapping activity
- 3:00 Groups report back
- 4:00 Reflection
- 4:30 Adjourn

**Friday July 16, 2004 - Meet at UC 331**

- 8:45 Coffee
- 9:00 Resources of the ECOS Program
  - Web site
  - ECOS Guide to the Natural History of the Northern Rockies
  - Curricular materials to be developed
- 10:00 Team Planning with a goal
  - Theme for year
  - Greatest opportunities and greatest needs
- 12:00 Lunch
- 12:30 Team planning, continues
- 3:00 All teams present their plans
- 4:00 Overview and preparation for ECOS Institute II
- 4:30 Adjourn until August 16