

Daily Program for *Environmental Science for Elementary School Teachers*, Geology Field Station, Wyoming

Please note: This schedule is a rough guide only. Final details are subject to change.

Week 1

Day 1: Pre-Course Examination.

Hike to Beaver Pond: Discussion of course expectations and safety precautions.

Division of class into collaborative groups. Investigate plant and animal communities.

Night Lecture: Distribution of course materials, program outline examination procedures, introduction to land management. Optional nature photography lecture.

Day 2: Warm Spring Mountain: Introduction to the northern Rocky Mountains and rock cycle.

Warm Spring Creek: Collaborative groups investigate rock-forming minerals, igneous rocks and sedimentary rocks.

Union Pass: Collaborative groups investigate alpine meadow. Introduction to glacial deposition.

Night Seminar: Review rock classification. Discussion of rock cycle and Ohio rocks. Explanation of classroom projects to be developed by participants.

Collaborative groups meet.

Day 3: Torrey Canyon. Collaborative groups investigate metamorphic rocks, the effects of mountain glacial erosion on landscape, and the effects of weathering and mass movement.

Day 4: Grand Teton National Park: Colter Bay, Cathedral Viewpoint, Jenny Lake, Teton Fault, Moose Village. Collaborative groups investigate the effects of glaciation on plant and animal diversity and distribution.

Night Lecture: Introduction to next day's activities. Guest speakers from Wind River Indian Reservation.

Day 5: Absaroka Mountains: Collaborative groups investigate lava mudflows, petrified forest, waterfall, mountain glacier erosion, wildflowers.

Night Seminar: Review session, collaborative groups work on classroom projects.

Day 6: Warm Spring Creek: Lecture on aquatic communities/biotic index. Collaborative groups investigate biotic index, food chain, food pyramid, plant and animal diversity and adaptations.

Night Lecture: Introduction to Yellowstone.

Campfire

Day 7: Rendezvous Mountain, west of Grand Teton National Park: Collaborative groups investigate alpine tundra ecology.

Night Lecture: Introduction to geothermal features, succession, and fire ecology.

Week 2

Day 8: No formal meetings.

Day 9: Yellowstone National Park: Old Faithful, Mt. Washburn and Mammoth Hot Springs. Departure time 7:00 AM. Collaborative groups investigate thermal areas at Old Faithful and mammal ecology at Mt. Washburn.

Optional Field Trip: Gardiner, MT via Old Stagecoach Road and Historic Park Entrance

Day 10: Yellowstone National Park: Montana and 45th Parallel, Wraith Falls. Lectures on geothermal features and plate tectonics. Review of geology and zoology concepts. Collaborative groups investigate fire ecology.

Night Seminar: Mammoth Hot Springs Interpretive Programs, Study Session

Day 11: Yellowstone National Park: Tower Falls, Grand Canyon of the Yellowstone, Hayden Valley, Fire Museum, dinner at Grant Village. Collaborative groups investigate ecological succession and geothermal features. Return to field station.

Day 12: Dubois Overlook, Forest Service Station, Dubois Museum, Bighorn Sheep Center

Night Seminar: Collaborative groups present classroom projects. Study Session.

Day 13: Final Exam at 2 PM.

Farewell campfire.