



YELLOWSTONE
ASSOCIATION
INSTITUTE

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YI Collection

EDUCATIONAL PROGRAMS * SUMMER 2008



I N S P I R E . E D U C A T E . P R E S E R V E .

www.YellowstoneAssociation.org

WELCOME TO THE YELLOWSTONE ASSOCIATION INSTITUTE

THE MISSION OF THE YELLOWSTONE ASSOCIATION

The Yellowstone Association, in partnership with the National Park Service, fosters the public's understanding, appreciation and enjoyment of Yellowstone National Park and its surrounding ecosystem by funding and providing educational products and services.

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This catalog is printed on 100% post consumer waste, chlorine-free paper with soy-based ink.

REGISTRATION INFORMATION

LODGING AND LEARNING

Registration has begun. One phone call is all it takes to arrange a learning vacation based at hotels inside the park and led by expert naturalist guides from the Yellowstone Association Institute. These programs have a limit of 9 to 12 participants per session and have a minimum age of 12 unless otherwise stated. Rates are per person and do not include taxes. **Call 307-344-5566.**

YELLOWSTONE ED-VENTURES

Register any time for your private ed-venture with an Institute naturalist guide. **Call 307-344-2294.**

FIELD SEMINARS

Yellowstone Association member registration begins January 7, 2008 at 8 a.m. Mountain Time; January 14 for non-members. The minimum age is 18, or 16 if accompanied by an adult. **Register by phone at 307-344-5566 OR online at www.YellowstoneAssociation.org.**

BACKPACKING COURSES

Yellowstone Association member registration begins January 7, 2008 at 8 a.m. Mountain Time; January 14 for non-members. The minimum age is 18, or 16 if accompanied by an adult. **Register by phone at 307-344-2294 OR online at www.YellowstoneAssociation.org.**

For detailed information on our policies, please contact our registrar at 307-344-2294 or visit our website at www.YellowstoneAssociation.org.

COVER PHOTOGRAPHY: Pam Cahill, Jonmikel Pardo, Janice Smith, Dave Syfert, and Karen Withrow.

SUMMER 2008 EDUCATIONAL PROGRAMS

WHICH OF OUR PROGRAMS IS RIGHT FOR YOU?

LODGING AND LEARNING

Lodging and Learning programs mix just the right amount of education and recreation on your vacation. You'll be based at park hotels and taught by Institute naturalist guides who are intimately familiar with Yellowstone. If you want a vacation package that covers almost all you'll need and provides fun and discovery, Lodging and Learning programs are for you. See page 4.

YELLOWSTONE ED-VENTURES

Yellowstone Ed-Ventures offer private educational programs that immerse you, your family, or other small group in Yellowstone's wonders. You choose the program that best fits your group's itinerary and interest—whether it's a one-day tour or a combination of programs for a multi-day experience. Institute naturalist guides introduce you to Yellowstone, provide advice about making the most of your visit to the park, and lead you on your explorations. See page 7.

FIELD SEMINARS

Field seminars are educational experiences that go deep! Taught by researchers, field biologists, and other experts, field seminars focus on specific subjects such as predator/prey relationships, vegetation of the park, illustrating the wild, and observing wildlife. You'll be amazed at how much you can learn in one to four days. See page 8.

We offer two different settings for field seminars:

- Our Lamar Buffalo Ranch campus is based in the quiet northeast corner of the park, far from other development. You share a cabin with up to two other participants, and prepare your own meals in the group kitchen. **LAMAR TITLES APPEAR IN BROWN.**
- Courses based in and around the park take advantage of vast learning opportunities throughout the Yellowstone region. You stay in hotels at various park locations and in gateway communities, and enjoy the restaurants and amenities of these areas during your learning experience. **REGIONAL TITLES APPEAR IN GREEN.**

BACKPACKING COURSES

Backpacking courses take you on a learning adventure in the vast wilderness of the Yellowstone area. Designed to be both light on the land and educational, backpacking courses are taught by a professional outdoor leader and a content expert. If you are physically fit and can carry your own gear and prepare your own meals, then venture into the Yellowstone backcountry on one of these courses. See page 28.

HOW FIT DO YOU NEED TO BE?

Institute courses are based in the field, and most require you to be an active participant. If you take part in a field outing, you will need to carry a daypack—with food, clothing, water, and other essentials—that generally weighs up to 15 pounds. You will be exercising at elevations of 5,000 to 12,000 feet. Activities at these altitudes are more strenuous than the same activities at lower altitudes, and some people can experience associated health complications. To help you decide which course is best for you, we have developed a rating system that takes into account a hike's distance, pace, elevation gain, and terrain. Please note that these ratings are only guidelines: What is labeled "strenuous" might be routine for a very fit visitor while a "moderate" course might be quite difficult to a non-hiker who lives at sea level. For the most precise information about each activity and/or the effects of Yellowstone's altitude or environment, please refer to your student letter or contact the Institute registrar at 307-334-2294.

 **MINIMAL ACTIVITY**—Leisurely hikes up to 1 mile per day through relatively flat terrain on maintained trails.

 **EASY**—Hikes up to 3 miles per day with elevation gains of up to 250 feet. Some off-trail hiking is possible.

 **EASY TO MODERATE**—Brisk hikes of up to five miles per day with occasional elevation gains up to 500 feet in undulating terrain.

 **MODERATE**—Brisk aerobic hikes of up to eight miles per day with climbs up to 1,000 feet on dirt trails. Loose rocks, uneven footing, and off-trail hiking are possible. Good coordination is recommended.

 **STRENUOUS**—Brisk aerobic, destination-oriented hiking of up to 12 miles a day. Elevation changes of up to 2,000 feet on dirt trails or off-trail; loose rock, uneven footing, steep hillside traverses, and stream crossings are possible. Good coordination is required.

SUMMER 2008 LODGING AND LEARNING PROGRAMS

Experience the best of Yellowstone National Park with one of our award-winning Lodging and Learning programs. By day you'll explore Yellowstone with a fun and knowledgeable Institute naturalist guide from the Yellowstone Association, the official educational partner of the National Park Service. Each night you'll return to park hotels for excellent meals and comfortable accommodations provided by Xanterra Parks & Resorts®, the official concessioner for Yellowstone National Park hotels. All programs include expert instruction, breakfast and box lunches, in-park transportation, and optional evening programs by the National Park Service or Xanterra. Programs have a limit of 9 to 12 participants per session. The minimum age is 12 unless otherwise stated. Rates are per person and do not include taxes. Members of the Yellowstone Association receive a \$10 discount per person.

SO HOW DOES THIS ALL WORK?

To register or for more information about Lodging and Learning programs, call Yellowstone National Park Lodges at 307-344-5566, 8 a.m. to 5 p.m., Mountain Time, seven days a week. Programs fill fast so register early. A 50% deposit, payable by check or major credit card, is required within two weeks of registration.

You'll receive a confirmation with a student letter, clothing and equipment list, park entrance pass, and personal data forms you need to fill out and return right away. These help us get to know you better so we're prepared for your arrival.

You must pay the balance of 50% program cost 30 days prior to your arrival, otherwise your reservation will be cancelled.

You are responsible for transportation to and from the location where the program begins.

CANCELLATION AND REFUND POLICY FOR LODGING AND LEARNING PROGRAMS

Your deposit is fully refundable if you cancel at least 60 days prior to arrival. Cancellations made between 60 and 30 days prior to arrival will result in a 50% penalty of the package cost. Cancellations made inside 30 days prior to arrival will result in a penalty of the total package cost. If we cancel, you will receive a full refund. We cannot make exceptions to the refund policy for any reason including but not limited to illness, travel delays, emergencies, or weather. We recommend that you purchase accident, baggage, and trip cancellation insurance through a travel agent or website such as www.TravelGuard.com. Travel insurance can help protect you against financial loss if you must cancel or interrupt your trip.

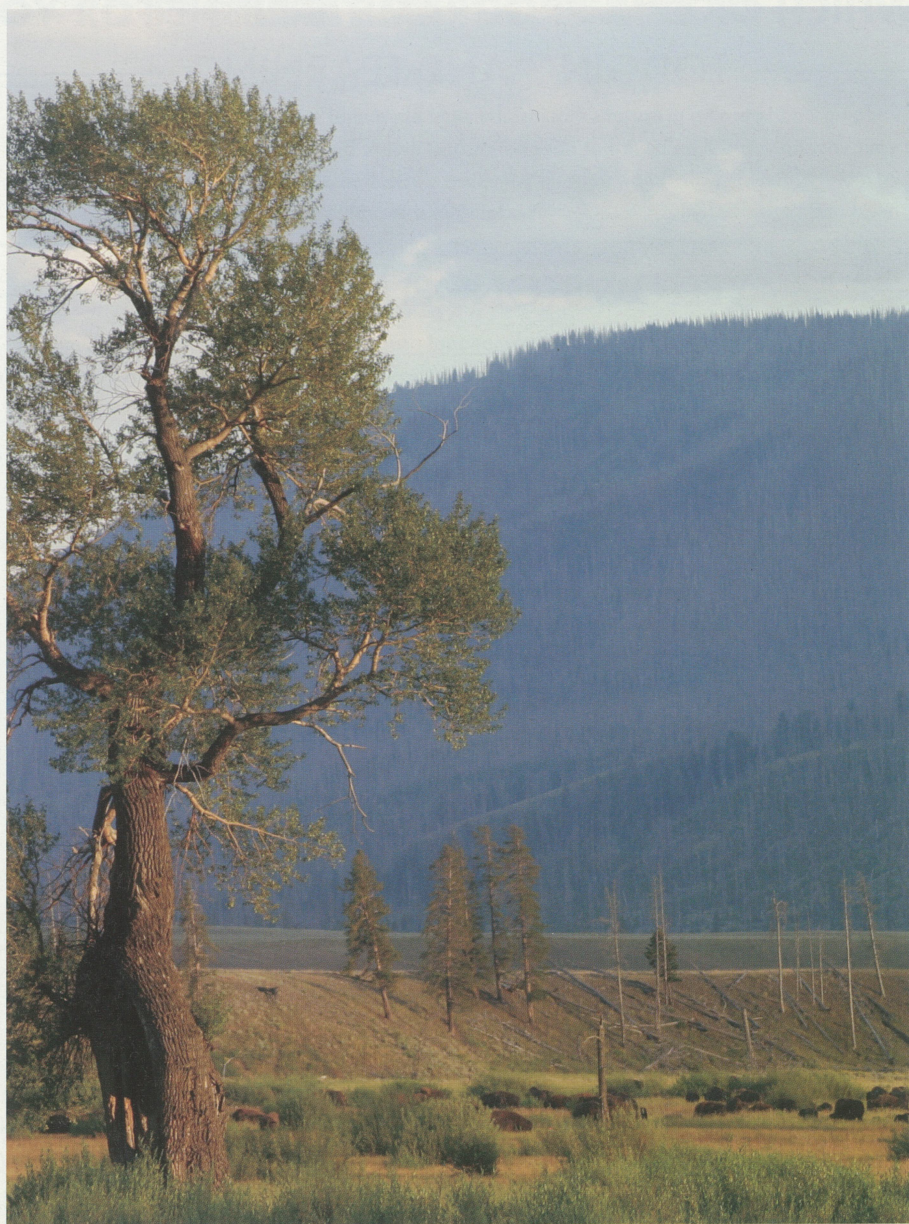


Photo: Jonmikel Pardo



Photo: Barry O'Neill (NPS)



Photo: Jonmikel Pardo



Photo: Jenny Golding

SPRING WOLF AND BEAR DISCOVERY



This is your opportunity to delve into the world of Yellowstone's wolves and bears. You'll join an Institute naturalist guide for sunrise trips in Yellowstone's Northern Range to look for these charismatic carnivores. During the day, you'll take leisurely hikes in their habitat, learning about their behavior, ecology, and conservation. And throughout, you'll be immersed in the beauty and wonders of Yellowstone in the spring. Your program fee includes dinner the last night. ☀

Dates:

3-day programs offered May 4, 7, 10, 13, 16, 20, 23, 26, 29, June 1, 4, 7, and 10

Lodging:

4 nights at Mammoth Hot Springs

Rates:

\$579 Double Occupancy
\$787 Single Occupancy

TRAILS THROUGH YELLOWSTONE



Lace up your hiking boots and sling on your daypack for four days of hiking, wildlife viewing, and discovery in the world's first national park. You'll be led by an Institute naturalist guide on carefully chosen hikes to explore Yellowstone's diverse landscapes throughout the park, from the geyser basins around Old Faithful to the Grand Canyon of the Yellowstone River. Search for elk, bison, grizzly bears, wolves, and other species on a sunrise wildlife viewing expedition. A variety of new and exciting trails have been added to the itinerary this year so be prepared to hike every day in this active program. ☀

Dates:

4-day programs offered Monday to Friday from June 2 to September 22

Lodging:

2 nights at Mammoth Hot Springs
2 nights at Grant Village

Rates:

\$639 Double Occupancy
\$868 Single Occupancy

NEW! ESSENTIAL YELLOWSTONE



Experience Yellowstone during two intriguing seasons, spring and autumn. In either season, an Institute naturalist guide leads you on explorations to find the hidden secrets and sights of the park. You'll enjoy wildlife watching in the Hayden Valley, walking along the rim of the Grand Canyon of the Yellowstone River, and touring the heart of the Yellowstone volcano. Each evening, you can spend time in the elegant Lake Hotel, which sits on the shore of Yellowstone Lake and is listed on the Register of Historic Places. Your program fee includes dinner the last night. ☀

Dates:

4-day programs offered May 18, 25, June 1, 8, September 21, 28

Lodging:

5 nights at Lake Village

Rates:

\$859 Double Occupancy
\$1,207 Single Occupancy

OLD TIMES ON THE GRAND TOUR



Take the famous and historic Grand Tour of Yellowstone in the same high style as visitors of a bygone era. You'll travel with an Institute naturalist guide in one of the park's classic yellow buses, which features large windows and a retractable canvas top perfect for wildlife viewing. Your guide will escort you to cultural sites from Yellowstone's past and on walking tours of historic and thermal areas. Enjoy the spontaneity of a Yellowstone tour, too, by stopping when wildlife watching opportunities arise. To complete each day of history and sightseeing, you'll stay overnight in three historic areas—Mammoth, Old Faithful, and Lake. ☀

Dates:

5-day program offered May 18, 25, September 21, 28

Lodging:

2 nights each at Mammoth Hot Springs, Old Faithful Snow Lodge, Lake Hotel

Rates:

\$1,399 Double Occupancy
\$1,890 Single Occupancy

YELLOWSTONE FOR FAMILIES



SELECTED "BEST SUMMER FAMILY CAMP IN AMERICA" BY GOOD MORNING AMERICA AND FAMILY FUN MAGAZINE!

Experience the magic of Yellowstone with this unique learning adventure for families with children 8–12 years old. Led by an Institute naturalist guide, your family can explore canyons, waterfalls, and geyser basins, and enjoy activities together including animal tracking, wildlife watching, photography, painting, and hiking. During the program, your children can become Yellowstone National Park Junior Rangers. ☀

Dates:

4-day programs offered Monday to Friday and Friday to Tuesday from June 13 to August 18

Lodging:

4 nights at Mammoth Hot Springs or Grant Village

Mammoth Rates:

\$615 Double Occupancy
\$823 Single Occupancy
\$379 Each Child

Grant Rates:

\$655 Double Occupancy
\$905 Single Occupancy
\$379 Each Child

"This is one of my family's most memorable vacations."



Photo: Diane Simpson



Photo: Q. Sondeno

FALL WOLF AND ELK DISCOVERY



This is your opportunity to delve into the world of Yellowstone's wolves and elk. You'll join an Institute naturalist guide for sunrise trips to look for these charismatic mammals. Elk should be easy to find—they are gathered for their annual rutting season, which is full of drama. Wolves are more elusive in the fall, but with an insider's advantage you'll have a good chance to see them. During the day, you'll take leisurely hikes in elk and wolf habitat, learning about their behavior, ecology, and conservation. Your program fee includes dinner the last night. ✨

Dates:

3-day programs offered August 27, September 3, 10, 17, 24, October 1

Lodging:

4 nights at Mammoth Hot Springs

Rates:

\$579 Double Occupancy
\$787 Single Occupancy

ROOSEVELT RENDEZVOUS



The historic Roosevelt Lodge sits in the center of Yellowstone's Northern Range, where you can enjoy the arresting bugle of bull elk among the fall colors of aspen, willow, and cottonwood. During the day, you can search for wolves, enjoy a series of easy geology strolls in the Yellowstone volcano, challenge yourself on a vigorous guided hike, or do your own thing. **New this year:** Photography excursions to capture Yellowstone's wild beauty, outings to witness the annual raptor migration, and more exciting field trip options. At night, we convene in the main lodge for buffet-style dinners and entertaining evening programs. You'll stay in rustic but comfortable individual guest cabins. Each program has a limit of 52; daily field trips are in small groups. ✨

Dates:

4-day programs offered September 5, 9, 13

Lodging:

4 nights in private cabin, with bathroom facilities nearby

Rates:

\$639 Double Occupancy
\$767 Single Occupancy



Photo: Robert Harris

SUMMER 2008 PROGRAMS FOR PRIVATE GROUPS

YELLOWSTONE ED-VENTURES appeal to individuals, families, friends, or other small groups who want a private educational introduction to Yellowstone. Choose from the four programs listed below to best fit your itinerary and interests—one for a day-long experience or several for a multi-day program. Days will be tailored to your group's activity level and include an optional walk or hike. Your Institute naturalist guide will introduce you to Yellowstone, provide advice to make the most of your visit, and lead you into the wonders of the park. Yellowstone Ed-Ventures include expert instruction, in-park transportation, and snacks. Meals and lodging are not included. Facilities inside the park may not open before 8 a.m., so be prepared to have all meals ready the day before each program.

WILDLIFE WATCHING ON THE NORTHERN RANGE

Start: 6 or 8 a.m. at Gardiner or Mammoth, 6:30 or 8 a.m. at Roosevelt or Lamar

Discover the diverse and abundant wildlife of Yellowstone's Northern Range. Learn how to search for wildlife and how to use binoculars and spotting scopes effectively.

NATURAL HISTORY AND GEOLOGY: YELLOWSTONE LAKE AND GRAND CANYON OF THE YELLOWSTONE

Start: 8 a.m. at Gardiner, Mammoth, Canyon, Norris, or Lake

Explore the natural and geologic history of the Yellowstone Lake Area, and the spectacular Grand Canyon of the Yellowstone River. Search for wildlife in the bison-rich Hayden Valley, and learn about the Yellowstone volcano on easy geology strolls.

GEYSERS, MUDPOTS, AND HOT SPRINGS: OLD FAITHFUL AREA

Start: 8 a.m. at Gardiner, Mammoth, Norris, Madison, or Old Faithful

From the center of the world's greatest concentration of hydrothermal features, take an in-depth look at how they form and why they do the things they do. You'll travel on boardwalks and easy trails, observing geologic features that reveal the wonders of Yellowstone's volcano.

DAY HIKING IN YELLOWSTONE

Start: 8 a.m. at Gardiner, Mammoth, Canyon, Old Faithful, Lake, Roosevelt, or Madison

Carefully chosen hikes explore Yellowstone's diverse landscape. Learn the basics of safe, low-impact backcountry travel in grizzly country with an Institute naturalist guide skilled in backcountry travel. Hikes are selected to match your group's ability level and interests.

LENGTH

Approximately 8 hours per day

DAILY TUITION RATES

1-6 participants \$495

7-13 participants \$625

14-26 participants \$1,250

Rates effective through October 31, 2008.

**FOR MORE INFORMATION,
PLEASE CALL: 307-344-2294**

OTHER OPTIONS FOR YOUR PRIVATE GROUP

include backpacking trips and Lodging and Learning programs. To find out more, call 307-344-2591



Photo: Janice Smith

Members of the Yellowstone Association receive a \$10 discount.

FIELD SEMINARS

Enjoy focused educational experiences that closely examine individual aspects of the Yellowstone ecosystem. You'll learn about the park through the eyes of an animal tracker, a wolf biologist, a photographer, a geothermal scientist, and other noted experts, with just the right combination of field excursions and classroom presentations.

WE OFFER TWO DIFFERENT SETTINGS:

LAMAR BUFFALO RANCH FIELD CAMPUS: Far from other development in Yellowstone's quiet northeast corner, the Buffalo Ranch offers comfortable lodging in a remarkable wilderness setting. For just \$25 per night, you will enjoy cozy log cabins with propane heaters, a bathhouse with private showers, and a common building with fully equipped kitchen and classrooms. You cannot camp at the Buffalo Ranch, and you cannot bring pets—but service animals are allowed. You are responsible for transportation to and from the Lamar Buffalo Ranch. An Institute staff person will greet you at check in and orient you to the facility.

LAMAR TITLES APPEAR IN BROWN.

PARK HOTELS AND LOCATIONS THROUGHOUT THE YELLOWSTONE REGION:

These field seminars are based at hotels in the park and in gateway communities, with lodging, restaurant and other amenities available. For multi-day courses based at hotels inside the park, we have set aside a block of rooms that will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. You are responsible for booking your own rooms and arranging for your own meals. Often, meals are enjoyed as a group, sometimes out in the field. You are responsible for transportation to and from the meeting locations, but transportation is provided during the day. **REGIONAL TITLES APPEAR IN GREEN.**

Please remember that these courses are for adults. Children over 15 may attend if accompanied by an adult. For most field seminars, you will need basic day-hiking supplies such as trail food, water, sunscreen, rain gear, daypack, plus notebook and pen or pencil. If you are a member of the Yellowstone Association, you'll receive a \$10 tuition discount.

EARNING UNIVERSITY CREDIT

You can earn one semester hour from Colorado State University (CSU) for field seminars marked "credit pending" if they are approved. On the first day of the course, you need to fill out a registration form and write a tuition check payable directly to CSU. Credit fees are approximately \$75 per semester hour and are in addition to the tuition and cabin fees. To receive academic credit, you may be required to successfully complete exams and other assignments. As an alternative, we are happy to provide you with a Letter of Certification after completion of the course, stating the focus of the course and the hours of instruction.



Photo: Karen Withrow

SO HOW DOES THIS ALL WORK?

To register or for more information about a field seminar, call us at 307-344-2294, 8 a.m. to 4:30 p.m., Mountain Time, Monday through Friday or visit us online at www.YellowstoneAssociation.org. Courses fill fast so register early. Full payment is required at the time of registration. Online course requests are not final until confirmed by our registrar.

After you register, we'll send you a confirmation letter, park entrance pass, and personal data forms. You need to fill out the forms and return them right away; they help us get to know you better so we're prepared for your arrival.

Approximately 30 days prior to your course, we'll mail you a student letter from your instructor. We will send these by email or regular mail, depending on what you requested when you signed up.

CANCELLATION AND REFUND POLICY FOR FIELD SEMINARS

Payments are fully refundable, less a \$35 per course processing fee, if you cancel at least 60 days before the course. Tuition and cabin fees are non-refundable for cancellations received fewer than 60 days before the start of the course, unless your space can be filled. If we can fill your space, a refund will be made, less the course processing fee. As an alternative, we can credit your tuition and cabin fees to another course of the same type offered before October 1, 2008, on a space available basis. We reserve the right to cancel a course up to 30 days before the first class day. If we cancel, you will receive a full refund. We regret that the Institute cannot make exceptions to the refund policy for any reason, including but not limited to illness, travel delays, emergencies, or weather. We urge you to purchase accident, baggage, and trip cancellation insurance through a travel agent or website such as www.TravelGuard.com. Travel insurance can help protect you against financial loss if you must cancel or interrupt your trip.



Photo: Pam Cabill



Photo: Doug Dance



Photo: Jonmikel Pardo



Photo: Pam Cabill

#501 THE MAGIC OF WATERFOWL MIGRATION



Start: April 25 at 7 p.m.
End: April 27 at 4 p.m.
Location: Gardiner, MT
Instructor: Terry McEneaney
\$205
Limit: 8
Credit Pending

Loren Eisley once wrote "If there is magic on this planet it is contained in water." Explore the magic of Yellowstone's aquatic environments and the birds that inhabit them during the season that waterfowl are most abundant and colorful. Your guide will be an ornithologist who has studied Yellowstone's birds for forty years. From him, you'll learn the nuances of waterfowl identification and also discover the differences among common to extremely rare species of ducks, geese, and swans. ☀

#502 YELLOWSTONE'S PACK OF PREDATOR CONCERNS



Start: May 5 at 7 p.m.
End: May 8 at 4 p.m.
Location: Gardiner, MT
Instructors: James Halpenny, Ph.D., Kerry Murphy, Ph.D. and Jim Garry, M.S.
\$360
Limit: 11
Credit Pending

Nothing in Yellowstone captures the human imagination more powerfully than the big three carnivores—lions, wolves, and grizzly bears. Add the largest weasel in Yellowstone, the wolverine, and you've got a pack of carnivores of great concern and intensive scientific study in Yellowstone National Park. You'll learn about these magnificent animals in classroom and field sessions led by ecologists who are working with these animals. You'll also enjoy sunrise and sunset wildlife watching with these experts. ☀

#503 NEW! BIRDS ON THE MOVE



Start: May 9 at 7 p.m.
End: May 11 at 4 p.m.
Location: Gardiner, MT
Instructor: Terry McEneaney
\$205
Limit: 8
Credit Pending

During this weekend, you can join the celebration of International Migratory Bird Day right here in Yellowstone. Find out which of Yellowstone's summer avian residents have migrated from Mexico, Central and South America, and which birds have shorter migrations. You'll also see species passing through, with a long way to go to their summer homes. Search for these winged travelers from Yellowstone's subalpine country to its lowland foothills with the ornithologist who began the Yellowstone International Migratory Bird Count in 1993. Along the way, you'll compare data collected in previous years and add your own observations to the information produced internationally on this special weekend. ☀

#504 THE SPRING WILDLIFE SHOW



Start: May 13 at 11 a.m.
End: May 15 at 9 p.m.
Location: Gardiner, MT
Instructor: Gene Ball
\$270
Limit: 12

Winter departs slowly from Yellowstone, but with spring comes a wildlife show second to none. The stage is Yellowstone's Northern Range, which includes one of the world's great wildlife viewing areas, the Lamar Valley. You'll explore this area, which is home to wolf dens full of growing pups, red bison calves frolicking, bear mothers with their young in tow, ground squirrels scampering about, and sandhill cranes setting up their nests. You may even see one of the year's first elk calves. ☀

#505 INTO THE BEAR'S DEN



Start: May 16 at 8 a.m.
End: May 16 at 5 p.m.
Location: Gardiner, MT
Instructor: Kerry A. Gunther, M.S.
\$90
Limit: 12

The bears are awake and away from their dens—a great time to explore where they've spent the winter. You'll begin with a classroom overview of bear denning behavior and hibernation physiology, then hike to an unoccupied bear den. Along the way and during lunch, you'll discuss bear behavior, food habits, habitat use, predation, bear-human interactions, and nuisance bear management. Be prepared for a four-mile hike that begins with a strenuous, extremely steep section. ☀



Photo: Janice Smith



Photo: R. Robinson (NPS)



Photo: Julianne Baker

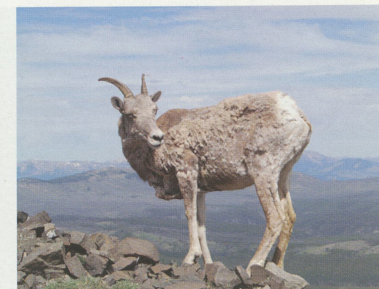


Photo: Robert Harris

#506 WOLF NATIONS: DYNAMICS OF A RECOVERED POPULATION



Start: May 16 at 8 a.m.
End: May 18 at 4 p.m.
Location: Gardiner, MT
Instructor: Nathan Varley, Ph.D.
\$270
Limit: 12
Credit Pending

What limits a wolf population? You'll find out as you hike among several wolf pack territories. Discover the natural checks and balances on wolf population growth; how packs organize themselves across the landscape; how they shift and change in size, composition, and location; and what these complex dynamics teach us about the wolf's role in the Yellowstone ecosystem. Each day you'll hike up to 5 miles off-trail to observation points where you might be able to observe some of the park's wolf packs. *

#507 WILDLIFE WATCHING IN GRIZZLY COUNTRY



Start: May 21 at 1 p.m.
End: May 23 at 9 p.m.
Location: Lamar Buffalo Ranch
Instructor: Gene Ball
\$270
Limit: 12

The grizzlies are out and about, which makes wildlife watching especially interesting now. You'll find out how to adjust and use spotting scopes and binoculars for safe viewing. You'll also learn to observe the park's many wildlife species unobtrusively and ethically while exploring their habitats. In between and during viewing sessions and a few high-elevation hikes, you'll discuss various wildlife topics, issues, and controversies. *

#508 BEHIND THE SCENES OF WOLF BEHAVIOR AND ECOLOGY



Start: May 22 at 4 p.m.
End: May 24 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jon Trapp, M.A.
\$205
Limit: 12
Credit Pending

Step into the shoes of wolf biologists to better understand exciting new research and the complexity of wolf management. What effects have wolves had on coyotes, grizzlies, cougars, ravens, and vegetation in Yellowstone? What happens to wolves when they leave the protection of the park? What will happen when wolves are removed from the Endangered Species List? You'll view wolves in the wild, visit original reintroduction sites, and delve into the ecology, politics, economics, and mythology of this keystone predator. Be prepared for time outdoors in cold, wet weather. *

#509 WILDERNESS FIRST AID



Start: May 25 at 8 a.m.
End: May 26 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Wilderness Medicine Institute Staff
\$220
Limit: 24
Credit Pending

Do you spend a lot of time in the outdoors? Have you ever wondered how you would respond to a backcountry emergency? This 16-hour certification course is ideal for hikers, skiers, and outdoor professionals who want to learn the basics of emergency care in remote settings. You'll learn patient assessment, shock, wilderness wounds, fractures and dislocations, hypothermia, heat illness, altitude illness, and bites and stings. May be used to re-certify as a Wilderness First Responder. No previous certification is required. *

#510 FROM BISON TO BIGHORN: THE HOOFED MAMMALS OF YELLOWSTONE



Start: May 27 at 9 a.m.
End: May 29 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Harold Picton, Ph.D. and Terry Enk, Ph.D.
\$330
Limit: 11
Credit Pending

Yellowstone visitors have a good chance of seeing bison and elk. But what about the other cud-chewing, hooved mammals that inhabit the park? In this class, you'll learn about them all: elk, bison, mule deer, pronghorn, bighorn sheep, moose, mountain goats—and maybe see each of them. Through field observation, you'll examine their adaptations and their roles in the Yellowstone ecosystem. *

"Being out in the field with experts is a highlight. Nowhere else but in Institute courses are the experts so outstanding."

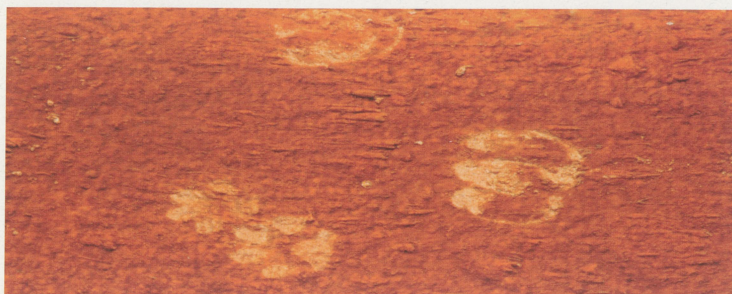


Photo: Jonmikel Pardo



Photo: Jonmikel Pardo



Photo: Steve Hinch

#511 MAMMAL SIGNS: INTERPRETING TRACKS, SCAT, AND HAIR



Start: May 27 at 9 a.m.
End: May 30 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$375
Limit: 12
Credit Pending

Mammals are elusive and hard to observe in the wild, but you can discover their behavior in the signs they leave behind. Through illustrated lectures and laboratories, you'll learn about natural history, ecology, anatomy, gaits, track averaging, relative size, estimating track age and speed, print identification, finding clues, and following trails. During afternoons in the field, you'll put your learning into practice as you explore animal behavior by reading the stories that tracks tell. *

#513 WE ARE NOT FOOLS YET! CROW TRIBAL CULTURE AND YELLOWSTONE NATIONAL PARK



Start: May 30 at 7 p.m.
End: June 1 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Timothy P. McCleary, Ph.D. candidate
\$210
Limit: 12
Credit Pending

In this class led by an anthropologist for the Crow tribe, you will examine the importance of Yellowstone National Park to Crow people historically and today. Through a combination of classroom sessions and field trips to critical cultural sites, you will learn about the origins and history of Crow people, the Crow explanation of how natural features within Yellowstone National Park were created, child rearing and training, hunting and warfare, historic and contemporary Crow beliefs and practices in Yellowstone Park. *

#514 GRIZZLIES: FROM DUMPS TO RECOVERY?



Start: May 30 at 7 p.m.
End: June 1 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Mark Haroldson and Sue Consolo Murphy, M.S.
\$250
Limit: 11
Credit Pending

Spring is a time when grizzly bears roam nose to the ground, searching for elk calves and other vulnerable prey. You'll be in the midst of the bruin action, participating in field trips and classroom discussions about grizzly natural and cultural history, their current status and threats. Explore reasons why grizzlies were removed from the federal list of threatened species last year, and if they've really recovered. *

#601 WOLVES OF THE PAST, PRESENT, AND FUTURE



Start: June 2 at 9 a.m.
End: June 4 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: James Halfpenny, Ph.D. and Jim Garry, M.S.
\$340
Limit: 11
Credit Pending

Discover a uniquely broad view of wolves from their evolutionary origins to interpretation of their sign to compelling renditions of classic wolf tales. In lectures and the field, you'll learn about wolf evolution, ecology, and management from carnivore ecologist Dr. James Halfpenny and the rich cultural history of wolves from folklorist Jim Garry. During field trips, you'll look for these magnificent canids and learn more about their restoration to Yellowstone. *

#602 NATIVE TROUT CONSERVATION IN YELLOWSTONE



Start: June 2 at 7 p.m.
End: June 4 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Bob Gresswell, Ph.D.
\$205
Limit: 12
Credit Pending

If cutthroat trout and other native sport fish are to survive in Yellowstone National Park and remain an ecologically significant component of the ecosystem, it will be through intensive efforts based on sound, defensible science. You can join this effort by participating in spawning stream surveys, stream inventories, native fish restoration activities, and other management and scientific projects. You will be working on specific projects on the streams and lakes of the park, but you'll have some class time to learn details about the trout and current issues making their management so challenging. *



Photo: Karen Whitbrow

#603 WHO'S THE MOOSE?



Start: June 5 at 8 a.m.
End: June 6 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Dan Tyers, Ph.D.
\$180
Limit: 12
Credit Pending

Explore some of the best moose habitat in Yellowstone—the northeast corner of the park. As you enjoy short hikes, you'll find out why moose live in this area, how scientists study these large animals, what they have discovered, and issues facing park managers. In the classroom, you'll learn more about this elusive animal and its natural history—and its future in Yellowstone. Be prepared for short hikes in cold, wet weather. ☀

#604 BEARS: BONES, SIGNS AND STORIES



Start: June 5 at 9 a.m.
End: June 8 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: James Halfpenny, Ph.D. and Jim Garry, M.S.
\$450
Limit: 11
Credit Pending

Ursophiles (Greek for "bear lovers") unite! Discover a uniquely broad view of bears from their evolutionary origins to interpretation of their sign to compelling renditions of classic bear tales. In lectures and the field, you'll learn about bear evolution, ecology, and management from carnivore ecologist Dr. James Halfpenny and the rich cultural history of bears from folklorist Jim Garry. Perhaps you'll see these magnificent bears during the field trips. ☀



Photo: Janice Smith

#605 NEW! PHOTOGRAPHING YELLOWSTONE'S EARLY SUMMER



Start: June 6 at 9 a.m.
End: June 9 at 4 p.m.
Location: Gardiner, MT
Instructor: Pete Bengeyfield, M.S.
\$370
Limit: 12
Credit Pending

Yellowstone's early summer days feature unpredictable weather but guarantee an abundance of spectacular photographic opportunities. Find these opportunities in this class for experienced photographers who already know their equipment well. You'll be hiking short distances to interesting destinations over varying terrain—trips bound to reveal landscapes, features, wildlife, and wildflowers perfect for photography. You'll learn how to use your equipment to maximize opportunities that come your way. And you'll learn to analyze these opportunities for composition, exposure, and depth of field. With this analysis, you'll be able to translate any situation into a beautiful photograph. ☀



Photo: Jenny Golding

#606 WOLVES AT THE DOOR: SUCCESSES AND CHALLENGES OF RECOVERY



Start: June 6 at 7 p.m.
End: June 8 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Diane Boyd, Ph.D.
\$205
Limit: 12
Credit Pending

Late spring in the Lamar Valley presents a vivid backdrop for observing wolves and discussing the challenges they present both inside and outside the park. Each day, you'll have opportunities to observe wolves interacting with other wildlife, and to explore their habitat and look for their tracks and other sign. Through thoughtful discussions and illustrated presentations, you'll explore the challenges of wolf recovery including the science and emotions involved, wolf/prey/hunter dynamics, wolf-livestock conflicts, and wolf habituation to human activities. ☀

#607 IN CELEBRATION OF BIRDS



Start: June 6 at 7 p.m.
End: June 8 at 4 p.m.
Location: West Yellowstone, MT
Instructor: Katy Duffy, M.S.
\$205
Limit: 12
Credit Pending

Do birds fascinate you? Do sweet bird songs make you smile? Then come enjoy Yellowstone's winged wonders. During the evenings, you'll learn the common birds of Yellowstone, including hawks, eagles, falcons, and owls. We'll spend both days exploring productive bird habitat in the Gallatin National Forest near the park's West Entrance and on the west side of the park. Along the way, you'll investigate specialized adaptations to habitats, how birds migrate, and why birds sing. Rooms will be held at The Brandin' Iron Inn until 30 days prior to the course. Call 406-646-9411 for rates and reservations. ☀



Photo: Karen Whitbrow



Photo: Pam Cabill



Photo: J. Schmidt (NPS)



Photo: Q. Sonden

#609 NATURE PHOTOGRAPHY IN YELLOWSTONE: THE DIGITAL IMAGE



Start: June 12 at 7 p.m.
End: June 16 at 4 p.m.
Location: Gardiner, MT
Instructor: Sandra Nykerk
\$395
Limit: 11

With the diverse photographic opportunities in Yellowstone National Park as inspiration, you'll integrate the various aspects of digital photography into your photographic skill set. Learn the digital lexicon and explore the digital workflow from pixels to prints, including the differences between film and digital cameras and techniques of image editing and adjustment. You'll have time to practice these new digital skills both in the field and in the classroom. Bring a digital SLR camera with which you are familiar; and you should also understand basic photographic principles. *

#610 WOLVES—REALITY AND MYTH



Start: June 13 at 7 p.m.
End: June 15 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Nathan Varley, Ph.D.
\$205
Limit: 12
Credit Pending

Immerse yourself in the scientific and spiritual realm of the wolf with the guidance of a scientist who studies these provocative carnivores. Through field observations and classroom discussions, you'll explore your own relationship with wolves, how it may relate to various myths about wolves and how it relates to the actual wild animal living in Yellowstone. Look for wolves on sunrise and sunset forays; hike through their habitat during the day. And throughout, learn how the wolf recovery project has ushered in a new era of scientific understanding. *

#611 SPRING WILDFLOWERS



Start: June 14 at 9 a.m.
End: June 15 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jennifer Whipple, M.A.
\$180
Limit: 12
Credit Pending

From the low-elevation sagebrush to high subalpine meadows, the northern portion of Yellowstone National Park is home to an extraordinary variety of wildflower habitats. In discussions with the park's botanist, you'll learn about wildflower lore, the influence of wildlife, and how climate and geology determine the park's vegetation. You'll learn to recognize wildflower families, genera, and species, including some rarely seen in the park. And you'll look for early blooming wildflowers, such as bitterroot and calypso orchid, by identifying and exploring their habitats. *

#612 MAMMOTH: 320 MILLION YEARS IN THE MAKING



Start: June 16 at 8 a.m.
End: June 17 at 4 p.m.
Location: Mammoth Hot Springs
Instructor: Paul Doss, Ph.D.
\$180
Limit: 12
Credit Pending

In this field course, you'll unravel the unique geological history and development of the Mammoth travertine terraces and the surrounding landscape. During field trips and short hikes, you'll study the geology forming the Gallatin Range, the Lamar Valley, Norris Geyser Basin, and learn how they relate to the geologic history of Mammoth. You'll also see how geologic materials behave differently and you'll make specific geological, ecological, and hydrothermal observations in the backcountry. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. *

#613 FINDING THE ELUSIVE AMPHIBIAN



Start: June 16 at 9 a.m.
End: June 17 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Charles R. Peterson, Ph.D.
\$180
Limit: 12
Credit Pending

Listen closely and you might hear the croaks of frogs—if you are lucky. Like the wetlands they depend on, frogs and other amphibians are hard to find in Yellowstone. This class is a great opportunity—you'll be searching for them at a prime time of year and with an instructor who studies these intriguing animals. Be prepared to hike moderate distances in hilly country as you search for the wetlands that harbor boreal toads, boreal chorus frogs, Columbia spotted frogs, and salamanders. Along the way, you'll learn why amphibians are important, what threatens their populations, and what we can do to help them. *

"Our instructor was such a highlight. I never dreamed I would get to spend so much time learning from a person so committed to wolf reintroduction and management. Nathan's passion is obvious."



Photo: Janice Smith



Photo: Janice Smith



Photo: Willis Peterson (NPS)

#614 **NEW!** **POETRY+ECOLOGY =CREATIVE FUSION**



Start: June 16 at 9 a.m.
End: June 18 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Susan Zwinger, Ph.D.
\$270
Limit: 12
Credit Pending

What happens when a scientist stumbles upon an organism so elegant that it must be celebrated? Or an intertwining of life so complex it must be described? That's when the poet and naturalist within us all fuse to create words that convey wonder. Come experience this fusion in this *Poetry In The Wild* workshop. You'll learn how to combine the skills of the poet with the understanding of the scientist through delightful exercises and adventurous explorations. Emerge as a better poet and an eloquent spokesperson for nature. ☀

#615 **YELLOWSTONE TIME TRAVEL: GEOLOGY DAY HIKES**



Start: June 18 at 7 p.m.
End: June 21 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Robert W. Spoelhof, Ph.D.
\$295
Limit: 12
Credit Pending

Embark upon three days of hiking and geological discovery in Yellowstone. As you cover the miles, you'll find out what natural forces created the landscapes you travel through. Unravel the story of 50-million-year-old volcanoes, lava flows that filled calderas, and the advance and retreat of glaciers that scoured Yellowstone's great valleys. Discover evidence of its ongoing volcanic activity and mountain building; learn about the debate over how the Grand Canyon of the Yellowstone formed. Along the way, you'll have ample time to ponder how this complex geology ties to the equally complex ecology of this wild wonderland. ☀

#616 **YELLOWSTONE'S GEOECOSYSTEM**



Start: June 19 at 8 a.m.
End: June 21 at 4 p.m.
Location: Mammoth Hot Springs, Lake Village
Instructor: Paul Doss, Ph.D.
\$270
Limit: 10
Credit Pending

Find out firsthand how geology puts the "system" in ecosystem by exploring the geologic controls so magnificently displayed in Yellowstone National Park. During field trips and brief lectures, you'll learn how geology controls the ecosystem—from entire landscapes to small hillside niches, from charismatic megafauna to microscopic plants and animals. You'll also discover the intricate interplay among volcanic and hydrothermal processes, rock types, hydrogeology, and the distribution of flora and fauna that make Yellowstone unique. Participants should have a small overnight bag for the stay at Lake on the second night. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

#617 **WOLVES OF THE WORLD**



Start: June 19 at 9 a.m.
End: June 20 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Douglas Smith, Ph.D. and Christine Smith
\$220
Limit: 11
Credit Pending

In this comprehensive and intensive class, you'll learn about worldwide wolf population status, along with wolf taxonomy, predator-prey relationships, relationships with other carnivores, morphology, and evolution. You'll also discuss controversies involving Yellowstone wolves, such as their interactions with humans and livestock. On field trips, you'll visit one of the acclimation pens used during wolf restoration, examine typical wolf habitat, and perhaps see wolves in the wild. ☀

#619 **LEARNING BIRDS BY SOUND**



Start: June 20 at 7 p.m.
End: June 22 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Terry McEneaney
\$205
Limit: 8
Credit Pending

Challenge your birding skills by undertaking identification not with binoculars or field guides, but with your ears. Learn to identify bird songs, calls, chip notes, vocal clucks, quivering, fluttering, gaping, and even flying noises. Using intense concentration, you'll focus on the sounds of 30 species to form a sound learning foundation, and will learn approximately 20 more species. You'll spend most of your time in the field developing these difficult but rewarding skills. ☀



Photo: Steve Hinch



Photo: Jonmikel Pardo

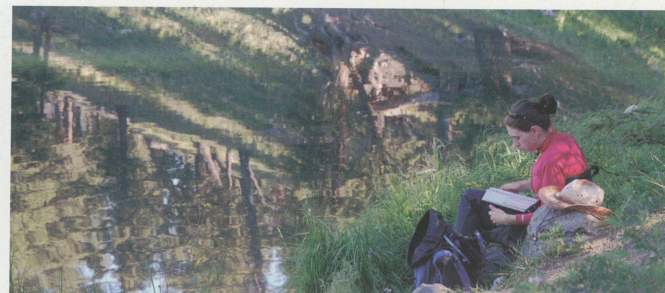


Photo: Janice Smith

#620 FISH BONES AND SCAT PILES: OTTERS IN THE WILD



Start: June 22 at 8 a.m.
End: June 23 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jamie Crait, Ph.D. candidate
\$180
Limit: 12
Credit Pending

Secretive otters may not reveal themselves during this class—but you'll spend plenty of time looking for them. Along the way, you'll learn to identify their tracks and signs, investigate a den, and find out how they choose their habitats. You'll collect otter scat to dissect for clues to their prey. And in class sessions, you'll find out more about their role in the Yellowstone ecosystem, examine how the decline in cutthroat trout impacts them, and how humans affect them. No doubt you'll keep searching for these intriguing animals long after the class ends. ☀

#621 THE ART OF WILDFLOWER IDENTIFICATION



Start: June 23 at 8:30 a.m.
End: June 25 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Meredith E. Campbell
\$270
Limit: 12

Develop a new way to identify and remember the names of the diverse and beautiful wildflowers that enhance our world. You'll begin with a classroom session on basic botanical terminology, how to use beginner key and field guides, and simple sketching techniques. Then you'll spend most of the time on short hikes to observe wildflowers and develop these new skills. With this knowledge and the observations that come with field sketching, you'll better understand and appreciate Yellowstone's wildflowers. ☀

#622 CARNIVORE CONSERVATION CHALLENGE



Start: June 24 at 8:30 a.m.
End: June 26 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Steve Primm, M.A. and Jason Wilmot, M.E.M.
\$330
Limit: 11
Credit Pending

Grizzly bears, gray wolves, Canada lynx, and wolverines are in dramatically different stages of recovery in and around Yellowstone National Park. You'll learn up-to-date information about the contentious crossroads facing grizzly bear recovery, the political controversies surrounding wolf recovery, and the formation of recovery plans for lynx and wolverine. During the class, you'll have an opportunity to talk with ranchers whose livestock are at risk from wolves and bears. You'll find out challenges faced by wolverines that live in country popular with snowmobilers, and how a remote town in grizzly country keeps bears from its garbage. Throughout, you'll have lots of time to watch wildlife. ☀

#623 YELLOWSTONE UNDER ICE



Start: June 26 at 9 a.m.
End: June 28 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Kenneth Pierce, Ph.D.
\$270
Limit: 12
Credit Pending

Through field trips and hikes, you can observe first-hand the geologic forces that shaped dramatically different terrains in the northern Yellowstone area and laid the foundation for its ecosystems. Find out how glaciers helped create the grassland ecosystems that support much of Yellowstone's wildlife. Hike to the summit of Mount Washburn to see tell-tale glacial polish and striations from an overriding ice cap during the last glaciation, and for an overview of Yellowstone's geologic landscape. Follow these forces beyond the park's borders to observe how glaciers, volcanoes, and catastrophic floods sculpted other parts of this rich landscape. ☀

#624 BEGINNING TO SKETCH THE WILD



Start: June 27 at 8:30 a.m.
End: June 29 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Meredith E. Campbell
\$270
Limit: 12

Open up a blank book and begin filling it with sketches of the beautiful wildlife, landscapes, and plants of the Lamar Valley. You don't need any drawing experience! You'll begin with easy drawing exercises, and embark on visual explorations of the valley. Experience how field sketching brings you fully present and observing to the world around you, seeing and learning what otherwise would be so easy to pass by. After a few days sketching in the field, you'll discover how visual notes and field sketches can be transformed into a refined drawing. ☀



Photo: Pam Cabill



Photo: Bridget Lyons



Photo: Diane Simpson

#625

WILDFLOWERS FOR BEGINNERS

Start: June 28 at 8:30 a.m.
End: June 28 at 5 p.m.
Location: Mammoth Hot Springs
Instructor: William C. Edwards, Ph.D.
\$90
Limit: 12

Internationally known for its biological variety, Yellowstone is home to more than 1000 species of plants. In this full-day exploration, you'll learn about the dozens of wildflowers that bloom in Mammoth Hot Springs from May until the hard frosts of fall. You'll explore meadows, forests, and streams to find summer bloomers reaching their peak. Marvel at the visual spectrum they display, look closely at their biology and ecology, and learn about their uses and how they were named. From these explorations, you'll be able identify other flowers you may find in the park. *

#626

OLD TIMES AT OLD FAITHFUL

Start: June 28 at 9 a.m.
End: June 28 at 5 p.m.
Location: Old Faithful
Instructor: Leslie J. Quinn, M.Ed.
\$90
Limit: 20

Imagine diving into a swimming pool as Old Faithful erupts, or enjoying hothouse flowers in your room at the Old Faithful Inn. You'll explore these long-gone experiences through site visits, antique photographs, and discussions with a park hotel expert. You'll also visit current places important to the cultural history of Old Faithful village, such as the Inn, the Lodge, and the two general stores. Find out what happened to the Haynes Photo Shops, why the Upper General Store is nicknamed the B.A.C., and other interesting details about Old Faithful village past and present. *

#627

GHOST HOTELS OF YELLOWSTONE

Start: June 29 at 8 a.m.
End: June 29 at 5 p.m.
Location: Old Faithful
Instructor: Leslie J. Quinn, M.Ed.
\$90
Limit: 12

Did they really build a hotel in Yellowstone and never open it? Has Old Faithful Inn lost 51 rooms since it opened in 1904? Which hotel was slated to have a "drive through" installed for automobiles? In this field class, you'll discover the answers to these and other questions. As you tour the sites of Old Faithful, Fountain, Marshall's, Norris, Canyon, and Lake hotels, you'll envision the scenes through antique photographs and learn the hotel histories from a park hotel expert. You might even discover some ghosts among the current hotels. *

#628

PHOTOGRAPHING YELLOWSTONE'S SUMMER

Start: June 29 at 9 a.m.
End: July 1 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Tom Murphy
\$270
Limit: 12

Credit Pending

Surrounded by the lively, colorful landscape of summer in Yellowstone, you'll learn photography techniques and philosophy. On early morning and evening field trips, you'll search for birds and their nests, and learn how to photograph them ethically and safely. You'll also photograph other wild animals, scenics, and the beginnings and endings of each day. Along the way, you'll discuss composition, ethics, and technical challenges. Bring your digital or film camera. This course is ideal for beginning to intermediate photographers. *

#629

CHANGING LIVES IN YELLOWSTONE: THE IMPACT OF WOLVES ON A LANDSCAPE

Start: June 30 at 8 a.m.
End: July 1 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Dan Stahler, Ph.D. student
\$180
Limit: 12
Credit Pending

Imagine beginning your day as light arrives on Yellowstone's Northern Range and the air fills with low howls of wolves regrouping after a hunt. Spend the early morning and evening looking for wolves, the remains of their prey, and the many species they interact with, learning about the impact Yellowstone wolves have on the structure and function of the ecosystem. Midday, in the classroom, you'll learn about current research on wolves through dynamic presentations. Be prepared for hiking 1 to 2 miles over uneven terrain and standing for several hours in varying weather. *

"Doug was fabulous—his knowledge is so vast and he shares it effortlessly and well, a great job of teaching. I learned so much. The Buffalo Ranch staff was cheerful, helpful, and so welcoming."



Photo: Jonmikel Pardo



Photo: Dave Syfert



Photo: Karen Withrow

#701 DAY HIKING THE WILD YELLOWSTONE: NORTHERN RANGE AREA



Start: July 3 at 7 p.m.
End: July 6 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Julianne Baker, M.A.
\$295
Limit: 12
Credit Pending

John Muir once exclaimed that Yellowstone is "wild enough to awaken the dead." More than 100 years later, Yellowstone's wild side is still out there waiting for you lace up your boots, leave the roadside, and hike into the backcountry. After an evening to review the basics of safe, comfortable, low-impact backcountry travel, you will hit the trail to soak up the history, geology, ecology, wildlife and wildflowers with stories, discussion, and hands-on exploration. Daily hikes will range from 8 to 12 miles with 2000-foot elevation gains, so come prepared to breathe the air that "is electric and full of ozone..." ☀

#702 A TRAIL THROUGH LEAVES: THE ART OF THE ILLUSTRATED FIELD JOURNAL



Start: July 4 at 9 a.m.
End: July 7 at Noon
Location: Lamar Buffalo Ranch
Instructor: Hannah Hinchman
\$360
Limit: 12

Enter nature in a new way, through the exhilaration and creativity of an illustrated field journal. You'll learn to mix words and images with exploration and introspection to record your encounters with the natural world. Explore these techniques through early morning writing rambles, classroom and field instruction in basic drawing methods, creative mapping, design and color, and careful observation. You'll have ample time for solitude and for browsing in the instructor's extensive library. ☀

#703 NEW! WRITING WHAT NATURE REVEALS



Start: July 7 at 9 a.m.
End: July 10 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jeff Hull, M.F.A.
\$360
Limit: 12
Credit Pending

In the river fishing. In the field exploring. Hiking a ridge, looking for wolves, listening to birds. All of these experiences reveal stories about yourself and the natural world. In this workshop, learn how to encourage and recognize these revelations, and how to use them to create your own stories. What details or events are most revealing? Which can help build the story? How can you sharpen your rendering of them? You'll spend mornings in the field and afternoons writing, coming together again later to share and discuss your work. ☀

#704 DAY HIKING THE WILD YELLOWSTONE: LAKE AREA



Start: July 7 at 7 p.m.
End: July 10 at 4 p.m.
Location: Lake Village
Instructor: Julianne Baker, M.A.
\$295
Limit: 12
Credit Pending

From the top-of-the-world views on Avalanche Peak to the scenic shores of Shoshone Lake, Yellowstone's interior offers an outstanding diversity of backcountry hiking. After an evening to review the basics of low-impact backcountry travel, you will hit the trail to soak up the history, geology, ecology, wildlife, and wildflowers with stories, discussion and hands-on exploration. Daily hikes will range from 8 to 12 miles, with possible 2000-foot elevation gains, so bring the boots that are your feet's best friend. In the evening, rest in the comfort of the historic Lake area. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

#705 ALPINE WILDFLOWERS OF THE BEARTOOTH PLATEAU



Start: July 8 at 7 p.m.
End: July 10 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: John S. Campbell, Ph.D.
\$205
Limit: 12
Credit Pending

High, windswept, and cold, the Beartooth Plateau seems inhospitable to wildflowers. In this field course, you'll discover the truth: the plateau is rich with wildflowers adapted to live at high altitudes. Many of them are blooming right now on the tundra, although their tiny sizes make them challenging to locate. As you look for them, you'll learn to identify families of flowering plants and individual species. Find out how they survive, what adaptations allow them to live in the tundra, and how alpine plant communities reveal subtle differences in the tundra habitat. ☀



Photo: Karen Withrow



Photo: John Mack (NPS)

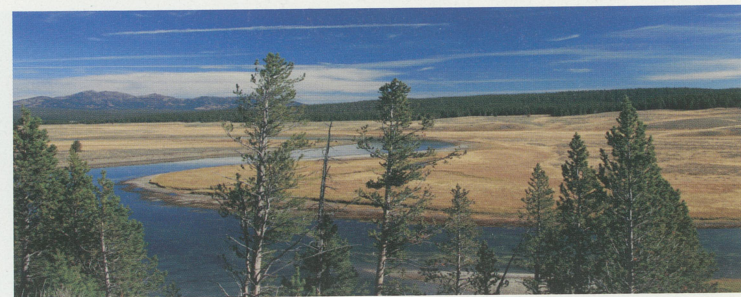


Photo: Shirley Cope

#706 MAP, COMPASS, AND GPS: EXPLORING YELLOWSTONE



Start: July 9 at 9 a.m.
End: July 9 at 4 p.m.
Location: Old Faithful
Instructor: Orville E. Bach, Jr., Ed.D.
\$90
Limit: 12

Look at a hiking map of Yellowstone National Park, and you'll notice that trails traverse only a small fraction of the land. So how do you get to that little lake that is located away from any trails? Find out how in this short, fun course. You'll learn the classic skills of map and compass navigation that have helped travelers for centuries find their way. See how a GPS unit works, and why satellite navigation has enhanced route-finding. You'll use these skills to find that hidden lake and historic sites in the Old Faithful area, and take home the knowledge to find other little-known sites away from any well-marked trail. Maps and compasses will be provided. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

#707 EXPLORING THE LOWER GEYSER BASIN



Start: July 10 at 9 a.m.
End: July 10 at 5 p.m.
Location: Old Faithful
Instructor: Orville E. Bach, Jr., Ed.D.
\$90
Limit: 12

Experience Yellowstone as the early explorers did—by “discovering” some of the little-seen wonders of the Lower Geyser Basin. Several short hikes will lead to spectacular hot pools, mudpots, and geysers. You'll discover the fascinating geology of Yellowstone's hydrothermal basins, the microorganisms that thrive in the hot water, and the complex interrelationships between large mammals and the hydrothermal basins in which they survive. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

#708 EMERGING KNOWLEDGE OF WOLVES



Start: July 10 at 7 p.m.
End: July 13 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructors: Nathan Varley, Ph.D., Dan MacNulty, Ph.D., and Dan Stahler, Ph.D. student
\$360
Limit: 24
Credit Pending

In this unique seminar, you'll discover the latest results of three leading wolf researchers. Their work is revealing answers to questions such as: Are wolves changing elk numbers and distribution? Does this affect elk hunting by humans? Will these changes trickle down to alter willow and aspen communities? You'll also see how genetic work has revealed the entire Yellowstone wolf family tree and study how wolves hunt their prey. Each instructor will lead small groups into the Northern Range each morning and evening to see these results in action. ☀

#709 ALPINE ECOLOGY IN THE BEARTOOTH



Start: July 14 at 6 a.m.
End: July 16 at 4 p.m.
Location: Cooke City, MT
Instructor: James Halfpenny, Ph.D.
\$275
Limit: 12
Credit Pending

Led by an avid cold-weather ecologist, you'll explore the high-elevation landscapes of the Beartooth Plateau. Experience first-hand the dichotomy of stunning alpine wilderness and a forbidding environment of bitter cold and cutting wind. You'll learn how geology, climate, plants, and animals form the alpine ecosystem. Using an ecosystem approach, you'll examine individual species and their remarkable adaptations to this extreme environment of unsurpassed beauty. Rooms will be held at Alpine Motel until 30 days prior to the course. Call 888-838-1190 for rates and reservations. ☀

#710 NEW! THE PLACE NAMES OF WONDERLAND



Start: July 14 at 9 a.m.
End: July 16 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Lee Whittlesey, M.A., J.D., Ph.D. (Hon)
\$270
Limit: 12
Credit Pending

Have you ever wondered if the Gibbon River is named after a man or a monkey? Find out the origin of this name and hundreds of others in Yellowstone while traveling around the park with its historian. Stop to look at a mountain, and find out who it is named for and who decided to honor this person and why. Learn how Greek and Roman mythology affected Yellowstone's place names, plus discover the influence of American politics and religion. And find out the role the U.S. Government plays today in naming places here and around the country. ☀

"The extremely knowledgeable instructor made this program fully worthwhile. He was gently humorous, attentive to everyone's needs, and had an uncanny knack for finding wildlife. He's one of the park's treasures."



Photo: Libby Jones



Photo: Karen Withrow



Photo: NPS

#711 **NEW!** FLY FISHING FOR BEGINNERS



Start: July 14 at 10 a.m.
End: July 17 at 6 p.m.
Location: Lamar Buffalo Ranch
Instructor: Rhea Topping
\$370
Limit: 10

Learn to fly fish in Yellowstone's world-class trout waters! You'll start casting the first day, and learn the basics: knots, equipment, fly patterns and the insects they imitate, playing and landing a fish, wading safety, catch-and-release fishing, and fly-fishing etiquette. Learn about the kinds of trout inhabiting Yellowstone waters and the conservation issues surrounding them. You'll have plenty of time to practice and fish on your own, and to enjoy wildlife viewing at dusk. Be sure to purchase your Yellowstone National Park fishing license before the class. ✨

#712 **NEW!** BIRDING FOR BEGINNERS



Start: July 17 at 7 a.m.
End: July 18 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Brian Thorpe, M.S.
\$180
Limit: 12
Credit Pending

Yellowstone's varied habitats make the park a great place to begin watching birds. You'll start with a classroom introduction to birding, with tips on what field marks to look for, how to describe what you see, and how to use field guides, binoculars, and spotting scopes. Then spend a full day in the park, closely examining the more common species in Yellowstone, learning which birds live in particular habitats in Yellowstone, and exploring the wonder of bird migration, song, and courtship. You'll also find out how to help birds wherever you live, and to enjoy birding no matter where you are. ✨

#714 GEYSERS, MUDPOTS, AND HOT SPRINGS



Start: July 18 at 9 a.m.
End: July 20 at 4 p.m.
Location: Old Faithful
Instructor: Duncan Foley, Ph.D.
\$285
Limit: 12
Credit Pending

Based in the center of the world's greatest concentration of hydrothermal features, you'll examine how they form and why they do the things they do. You'll spend the first day looking at the plumbing of hydrothermal systems, and observing features at Mud Volcano and along the shores of Yellowstone Lake. On the second day, you'll visit dynamic Norris Geyser Basin and end the day among the travertine terraces of Mammoth Hot Springs. The third day you'll explore the Upper, Midway, and Lower geyser basins—and possibly see several major geysers erupt. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ✨

#715 LESSER- KNOWN CARNIVORES



Start: July 18 at 9 a.m.
End: July 20 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$280
Limit: 12
Credit Pending

Meet the lesser-known carnivores of the Greater Yellowstone Ecosystem: coyotes, foxes, cougars, lynx, bobcats, and martens. Follow their species from a way-back time when there were no carnivores to the great diversity of shapes and forms found on Earth today. Many of these and other lesser-known carnivores are rare, exist in low densities, produce few young, and often in danger of local extinction. Find out more about these carnivores as you explore their biology, ecology, behavior, conservation, and evolution through classroom presentations and field trips to where they live. ✨

#716 **NEW!** BEYOND NATURAL REGULATION: YELLOWSTONE IN THE 21ST CENTURY



Start: July 18 at 7 p.m.
End: July 20 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Tom Olliff, M.S.
\$205
Limit: 12
Credit Pending

Bring your curiosity and questions to this class where you'll be visiting sites significant in the management of Yellowstone's vast resources. Hike to Lower Slough Creek cabin (the buffalo herder's cabin) to discuss bison management over time. Spend time in Lamar Valley talking about wolf restoration. Walk to Otter Creek to discuss grizzly bear recovery, human-wildlife encounters, and the place of large predators in American society. Travel to Yellowstone Lake to explore the preservation of Yellowstone cutthroat trout. Throughout, you'll find out how the park's resource management decisions focus on ecological integrity, native species preservation, and native species restoration—decisions made on a scale much larger than the park boundary. ✨

"This was better than anything I ever expected, definitely the 'Wow Factor!' of our trip."



Photo: Jonmikel Pardo



Photo: Q. Sondeno



Photo: Julianne Baker



Photo: Pam Cabill

#717 **NEW!** AFTER THE BURN: REJUVENATION AMONG THE ASHES



Start: July 21 at 9 a.m.
End: July 22 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Wayne Phillips
\$180
Limit: 12

Come to one of the world's premier fire research sites to find out how a landscape rejuvenates after the ashes have cooled. You'll visit numerous sites burned in 1988 and in subsequent fires, investigating how fire affects sagebrush, aspen, lodgepole, Douglas-fir, and other plant communities. Using photographs taken at the time of the fires and in subsequent years, you'll be able to compare post-fire conditions with what you see today. As you learn to identify the wildflowers, shrubs, grasses, and trees in a burned area, you'll also find out how they respond to wildfire, how they survive, and how they thrive afterward. *

#718 **MAMMAL SIGNS: INTERPRETING TRACKS, SCAT, AND HAIR**



Start: July 21 at 9 a.m.
End: July 24 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$390
Limit: 12
Credit Pending

Mammals are elusive and hard to observe in the wild, but you can discover their behavior in the signs they leave behind. Through illustrated lectures and laboratories, you'll learn about natural history, ecology, anatomy, gaits, track averaging, relative size, estimating track age and speed, print identification, finding clues, and following trails. During afternoons in the field, you'll put your learning into practice as you explore animal behavior by reading the stories that tracks tell. *

#719 **DAY HIKING THE BEARTOOTH**



Start: July 21 at 7 p.m.
End: July 24 at 4 p.m.
Location: Cooke City, MT
Instructor: Julianne Baker, M.A.
\$295
Limit: 12
Credit Pending

Outside Yellowstone's northeast corner rises the Beartooth Plateau—an ancient high country with the largest expanse of tundra in the lower 48 states. After an evening review of low-impact backcountry travel, we'll spend three days hiking to glacial lakes, walking among blazing wildflower meadows, and soaking up the history, geology, and ecology of the Beartooths. Hikes range up to 12 miles, with 2000-foot elevation gains, so take a deep breath and tighten up those boot laces. At day's end, you'll find good food and relaxation in Cooke City, where rooms have been set aside at the Alpine Motel until 30 days prior to the course. Call 888-838-1190 for rates and reservations. *

#721 **GEOLOGY OF YELLOWSTONE LAKE**



Start: July 24 at 7 p.m.
End: July 27 at 5 p.m.
Location: Lake Village
Instructor: Lisa Morgan, Ph.D.
\$295
Limit: 12
Credit Pending

In this field-intensive class, you'll explore the geologic forces shaping Yellowstone Lake, the centerpiece of the dynamic Yellowstone Plateau, and how these forces influence the lake's ecosystem. In brief illustrated lectures and discussions, you'll find out how high-resolution technologies have been used to map the floor of the lake. In the field, you'll examine the active hydrothermal systems, large explosion craters and associated deposits, and rhyolitic lava flows that create the dynamic landscape of Yellowstone. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. *

#722 **NEW!** EXPLORING NATURE'S BEST IDEAS



Start: July 26 at 9 a.m.
End: July 28 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructors: Robyn Klein, M.S. and Denise Deluca, M.S.
\$330
Limit: 11
Credit Pending

From spiders spinning silk stronger than steel to plants converting sunlight into energy at hyperspeed—nature's best ideas are capturing the attention of scientists, engineers, and philosophers. Explore the fascinating science of biomimicry by learning directly from Yellowstone's inhabitants. You will hike trails watching for clues given by animals and birds. Examine nature's designs by asking: How does nature attach? Use shape to color? Cooperate and communicate? How does nature create conditions conducive to life? Come explore ideas that nature teaches us based not on what we can extract, but on what works, sustains, and nourishes life on Earth. *

"This course far exceeded my expectations. It was balanced, complete, and very well presented, the best I have ever attended."

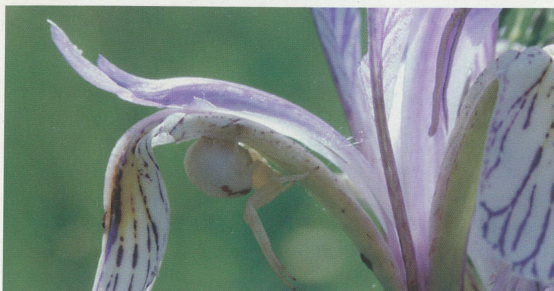


Photo: J. Schmidt (NPS)



Photo: Karen Withrow



Photo: Anita Edington

#723 PICKING BUGS OUT OF THE PAINT: THE ART OF PLEIN AIR



Start: July 26 at 9 a.m.
End: July 29 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Aaron Schuerr
\$360
Limit: 12

Whether you are new to painting or an old hand, bring your paints and palette to Yellowstone! You'll learn to translate the complex beauty of the park into the visual language of art. Spend mornings and evenings sketching and painting outdoors—known as plein air painting—when the shadows are long and the color is rich. During these field sessions and in the classroom, you'll discuss fundamentals of value, design, and color, and planning larger studio paintings from plein air studies. Instruction focuses on oil, but will include pastel, which shares many concepts and techniques. *

#724 TRACKING THE HEAT: YELLOWSTONE'S HOT SPOT AND CALDERAS



Start: July 28 at 7 p.m.
End: August 1 at 5 p.m.
Location: Old Faithful
Instructor: Lisa Morgan, Ph.D.
\$385
Limit: 12
Credit Pending

You've heard the story of Yellowstone's volcano, whether on TV or in books or at the new Canyon Visitor Education Center. Now you can experience the story up close and in the field. Led by one of the leading experts on the Yellowstone hot spot and calderas, you'll hike to locations rich with geologic evidence of the volcano. You'll learn to identify the rocks, their relationships to each other, and to the volcano. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. *

#725 THE BISON OF YELLOWSTONE



Start: July 29 at 9 a.m.
End: July 31 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructors: Jim Garry, M.S. and Harold Picton, Ph.D.
\$330
Limit: 11
Credit Pending

The big boys are rumbling. While you're observing the often noisy and always fascinating bison rut, you'll also learn about one of the Old West's classic, enduring symbols. You'll explore the bison's history and natural history, its role in native cultures, and its role in the expanding white culture of the nineteenth century. Discover the role of the Buffalo Ranch in the survival of the bison and explore the current political turmoil around the bison management and the definition of the Yellowstone ecosystem. *

#726 SCULPTING YELLOWSTONE WILDLIFE



Start: July 30 at 9 a.m.
End: August 1 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: George Bumann, M.S.
\$270
Limit: 12
Credit Pending

Bring your enthusiasm for art and wildlife to this class—no other experience required! Working with an acclaimed wildlife sculptor, you'll learn to bring clay to life amid the inspiration of Yellowstone's wildlife. Learn basics and details of modeling animals you observe in the field. Discover the art of simplifying your subject and of capturing its character, mood, and emotion. At the same time, learn to build an armature, compose a piece, and ensure the anatomy and behavior are as true to life as the wildlife you see in this wondrous wilderness. Students must provide their own materials. *

#801 INTRODUCTION TO MAMMAL TRACKING



Start: August 1 at 8 a.m.
End: August 1 at 5 p.m.
Location: Gardiner, MT
Instructor: James Halfpenny, Ph.D.
\$95
Limit: 12

Brush up your natural history detective skills by learning to read mammal tracks. You'll be trained by one of the best animal trackers in the world at Dr. Halfpenny's Track Museum in Gardiner. Using his hundreds of track casts, you'll learn the basics of footprint identification, how to read gaits and trails, and how to interpret the other signs animals leave behind. In the afternoon, you'll travel to one of Yellowstone's hottest tracking areas to practice your new skills. By the end of the day, you'll have plaster casts of animals you've never seen and many stories to tell about their adventures. *

"Julianne was a delight to be around, very well spoken, showed great knowledge of the park and its history. She was concerned for everyone in our party and always went the extra mile."



Photo: Steve Hinch



Photo: Boyd Norton

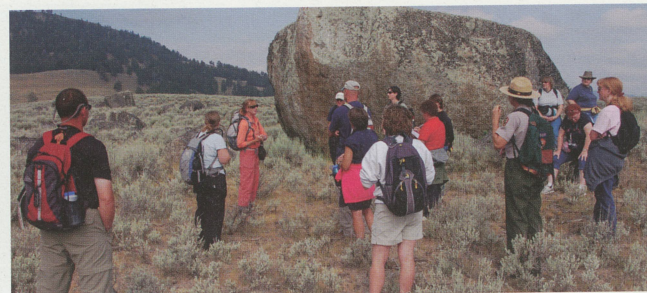


Photo: Janice Smith



Photo: Jim Peaco (NPS)

#802 BEARS: FOLKLORE AND BIOLOGY



Start: August 1 at 9 a.m.
End: August 3 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Jim Garry, M.S. and Harold Picton, Ph.D.
\$330
Limit: 11
Credit Pending

Why does the bear loom large in Yellowstone and in our psychic landscape? You'll explore this question in both the classroom and the field. Learn about the bear's basic biology, including reproduction, behavior, food habits, home ranges, habitat use, and population biology. You'll also delve into the bears of myths, dreams, folklore, and popular culture. Throughout the course, you'll explore the importance of both scientific and folk knowledge as part of our relationship with the land. ☀

#803 SEARCHING FOR YELLOWSTONE'S MOST ELUSIVE CARNIVORES



Start: August 2 at 9 a.m.
End: August 3 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructors: James Halfpenny, Ph.D. and Kerry Murphy, Ph.D.
\$225
Limit: 11
Credit Pending

How do you study an animal you seldom see? You'll discover the answers by working with two scientists who are researching Yellowstone's most elusive predators—the wolverine and the Canada lynx. You'll learn to identify these carnivores, their footprints, and their sign. You'll visit a live-trap used on the wolverine research project and see how hair-snare devices can detect Canada lynx. And you'll find out why this research is so important to these animals and the rest of Yellowstone's ecosystem. ☀

#804 TEACHER WORKSHOP: NO CHILD LEFT INDOORS!



Start: August 4 at 9 a.m.
End: August 7 at Noon
Location: Lamar Buffalo Ranch
Instructors: Julianne Baker, M.A. and Danielle Nicholas Fisher, M.Ed.
\$355
Limit: 26
Credit Pending

Teachers, discover the buzz about *Expedition: Yellowstone!* This award-winning curriculum is an invaluable resource for educators who want to bring their students to Yellowstone or want to enliven classroom learning with park material. *Expedition: Yellowstone!* is a residential (multi-day, overnight) program that has inspired hundreds of teachers and tens of thousands of students from across the country. You'll participate in curriculum activities taught by experienced instructors and learn best practices for teaching in any outdoor setting—skills you can easily transport home to share with your students and inspire them to value spending time outdoors. ☀

#806 NEW! CLIMATE CHANGE AND THE YELLOWSTONE ECOSYSTEM



Start: August 9 at 9 a.m.
End: August 10 at 5 p.m.
Location: Gardiner, MT
Instructor: James Halfpenny, Ph.D.
\$215
Limit: 12
Credit Pending

You love Yellowstone—but do you worry about it changing as the climate changes? This class is your chance to understand climate change from the scientist's point of view. Through dramatic illustrated talks to investigative field trips, you'll find out how global climate change relates specifically to Yellowstone. Examine the evidence produced by glaciers, fossils, and tree rings that help scientists understand changes in groundwater levels, ice-out timing on Yellowstone Lake, and the frequency of fires. Throughout, you'll discuss the facts and how they allow you to interpret and judge issues of climate change and the future of the Yellowstone ecosystem. ☀

#807 NEW! SUSTAINABILITY AND YELLOWSTONE



Start: August 11 at 9 a.m.
End: August 12 at 5 p.m.
Location: Gardiner, MT
Instructor: William C. Edwards, Ph.D.
\$205
Limit: 12
Credit Pending

"Sustainability" is the buzz word of the early 21st century—but what does it mean and how can you contribute? Here's a clue: People who live in Yellowstone can throw all their garbage into one bag, knowing that a compost facility will sort it all and recycle more than 70% of the trash. You'll visit that facility and see other examples of sustainability within the park. Through guest lectures and discussions, you'll find out how the park and its concessioners are adjusting to climate change, and how you can use these ideas to make your own life more sustainable. ☀

"I am overwhelmed by the amount of knowledge I am leaving Yellowstone with. I have learned so much in the last three days with George. He is an excellent teacher. I cannot believe how well informed and knowledgeable he is."



Photo: NPS

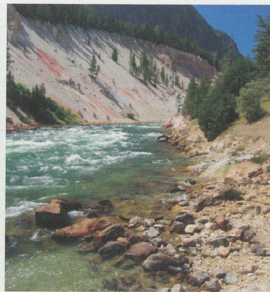


Photo: Dave Syfert



Photo: Jim Peaco (NPS)

#808 **NEW!** NAVIGATING WITH COMPASS, STARS, AND SATELLITES



Start: August 11 at 7 p.m.
End: August 13 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$210
Limit: 12
Credit Pending

A sliver of metal that points north changed the world, and satellites are changing the way we navigate. Discover the fascinating history of navigation while learning these life-saving techniques yourself. Learn to use the sun and stars, a compass, and a GPS unit to guide your way. Make your own compass, and then map the Buffalo Ranch. Learn about the Global Positioning System (GPS), then navigate to specific points using a GPS unit. Find out how to convert your information into a topographic map, and why topographic contours and other map details help biologist study Yellowstone's wildlife. *

#809 YELLOWSTONE'S SOUTHERN ROADSIDE HISTORY



Start: August 12 at 8:30 a.m.
End: August 14 at 4 p.m.
Location: Old Faithful
Instructor: Lee Whittlesey, M.A., J.D., Ph.D. (Hon.)
\$270
Limit: 12
Credit Pending

Yellowstone's landscape is rich with evidence of previous human activity. Through roadside viewing and short hikes (up to three miles round-trip), you'll examine sites that reveal this history from early Native American use to more recent human activity. You'll learn more interesting details about the park's history through illustrated discussions led by Yellowstone's historian. He will also take you on a special tour of Yellowstone's antique stagecoaches and early buses, which are not usually on view to the public. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. *

#810 SHAPING THE NORTHERN YELLOWSTONE LANDSCAPE



Start: August 12 at 9 a.m.
End: August 14 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Grant A. Meyer, Ph.D.
\$270
Limit: 12
Credit Pending

Northern Yellowstone displays the spectacular geologic processes—from volcanism to huge landslides—that shaped this region. You'll learn to read this landscape, interpret its evolution, and understand how physical processes and climate affect Yellowstone's ecosystems. With illustrated programs, you'll see less accessible areas and learn about scientific methods of interpreting geologic processes and history. During short hikes each day, you'll apply this knowledge and use maps and digital images to understand this still-evolving landscape. *

#811 WORDS INSPIRED BY WILDERNESS



Start: August 14 at 9 a.m.
End: August 17 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Alan Kesselheim
\$295
Limit: 12
Credit Pending

In this intensive field and classroom course, you'll learn to render experiences and personal insights into powerful writing through the skills of vivid "diving in" to scenes, showing rather than telling, hitching anecdotes to universal themes, editing to tighten and strengthen, and highlighting details in a scene. You'll develop and hone an essay or other piece of writing and discuss each other's work, much like a writer's group that meets to discuss issues and provide feedback. As the class culmination, you will formally present your finished piece to the group. Accept this challenge to push your writing to the next level. *

#812 THE WOLVES OF YELLOWSTONE



Start: August 15 at 9 a.m.
End: August 17 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: George Bumann, M.S.
\$285
Limit: 12
Credit Pending

Are you intrigued by wolves and hungry to learn more? This course will satisfy even the biggest appetite for wolf knowledge and experience. You'll begin with a comprehensive overview of wolf evolution, behavior, communication, and predation. Then you'll learn about Yellowstone wolf restoration, how well the wolves are doing, and how they relate to prey species, scavengers, and other animals. In addition to some class time, you'll spend plenty of time in the field observing wolves and prey, visiting the carcass of an animal killed by wolves, and exploring wolf habitat. *



Photo: J. Schmidt (NPS)



Photo: Jonmikel Pardo



Photo: Dave Syfert



Photo: Dave Syfert

#814

WONDERLAND'S SERENE SPOT: HISTORY ON YELLOWSTONE LAKE



Start: August 20 at 9 a.m.
End: August 20 at 4 p.m.
Location: Lake Village
Instructor: Leslie J. Quinn, M.Ed.
\$110
Limit: 10

Lake Hotel has long been a place to slow down and enjoy Yellowstone, but the hotel's button-down exterior belies the area's colorful past. Traveling on foot and in a 1937 White Touring Car, you'll visit the hotel and Lake Lodge plus the sites of a vanished lodge, the colorful Wylie "Permanent Camp," and other historical curiosities. You'll also travel by boat to Stevenson Island, where the shipwrecked *SS E. C. Waters* rests. ☀

#815 DAY HIKING THE WILD YELLOWSTONE: NORTHERN RANGE AREA



Start: August 27 at 7 p.m.
End: August 30 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Julianne Baker, M.A.
\$295
Limit: 12
Credit Pending

John Muir once exclaimed that Yellowstone is "wild enough to awaken the dead." More than 100 years later, Yellowstone's wild side is still out there waiting for you lace up your boots, leave the roadside, and hike into the backcountry. After an evening review of low-impact backcountry travel, you will hit the trail to soak up the history, geology, ecology, wildlife and wildflowers with stories, discussion, and hands-on exploration. Daily hikes will range from 8 to 12 miles with 2000-foot elevation gains, so come prepared to breathe the air that "is electric and full of ozone. . ." ☀

#817 FROM THE GROUND UP: BOTANICAL ILLUSTRATION



Start: August 29 at 9 a.m.
End: September 1 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Nancy Seiler
\$360
Limit: 12

Step by step, one line at a time, you'll bring plants alive with graphite on paper. Using drawing basics you already know, learn to build a botanical illustration with layers of sketching, refining, shading and composition. In the field and in the classroom, discover how light, perspective, texture, and detail help create life-like illustrations. In between drawing sessions, you'll learn the history of botanical illustration and some simple botany to understand your specimen better. ☀

#818 NEW! SEEING YELLOWSTONE THROUGH GEOLOGIST'S GLASSES



Start: August 29 at 7 p.m.
End: September 1 at 4 p.m.
Location: Canyon Village
Instructor: Cheryl Jaworowski, Ph.D.
\$295
Limit: 12
Credit Pending

Put on your geologist's glasses to see the Yellowstone that lies beneath and beyond the waterfalls, wildlife, and wildflowers. Hike to sites where geologists have studied the rocks and sediments; learn what they discovered and how their ideas have shaped today's theories about the park's complex geology. Pull out colorful geologic maps that help you see the landscape's big picture and find its specific geologic structures. Peer through a magnifying lens to see the details of volcanic eruptions and glacial advances. And put it all together into the ecosystem we know today as Yellowstone. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

#819 BEHIND THE SCENES OF WOLF BEHAVIOR AND ECOLOGY



Start: August 30 at 4 p.m.
End: September 1 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jon Trapp, M.A.
\$205
Limit: 12
Credit Pending

Step into the shoes of wolf biologists to better understand exciting new research and the complexity of wolf management. What effects have wolves had on coyotes, grizzlies, cougars, ravens, and vegetation in Yellowstone? What happens to wolves when they leave the protection of the park? What will happen when wolves are removed from the Endangered Species List? You'll view wolves in the wild, visit original reintroduction sites, and delve into the ecology, politics, economics, and mythology of this keystone predator. Be prepared for time outdoors in cold, wet weather. ☀



Photo: Harry Engels (NPS)



Photo: Barry O'Neill



Photo: Dave Syfert



Photo: NPS

#902 RAPTORS ON THE WING



Start: September 5 at 7 p.m.
End: September 7 at 3 p.m.
Location: Gardiner, MT
Instructor: Terry McEneaney
\$205
Limit: 8
Credit Pending

Look above Yellowstone's mountains and ridges this time of year, and you are likely to see raptors (birds of prey) soaring on updrafts on their way south. You'll find out why they fly along these ridges and where they are going. Because you are likely see so many raptors so close, this is the perfect time to learn the nuances of raptor identification—especially the field marks for immature and adult hawks, eagles, falcons, and osprey. If you are an advanced birder, you'll also pick up new identification tips as you observe these traveling raptors. ☀

#903 NEW! WOLF CAMP AT SLOUGH CREEK



Start: September 9 at 9 a.m.
End: September 11 at 4 p.m.
Location: Slough Creek Campground
Instructor: George Bumann, M.S.
\$270
Limit: 12
Credit Pending

Come camp among the wolves of Yellowstone! This totally outdoors course will satisfy even the biggest appetite for wolf knowledge and experience. You'll be served a main course of wolf information stuffed with evolution, behavior, communication, and predation. You'll also consume details about Yellowstone wolf restoration, how well the wolves are doing, and how they relate to prey species, scavengers, and other animals. And you'll work off all those brain calories by spending plenty of time in the field observing wolves and prey, visiting the carcass of an animal killed by wolves, and exploring wolf habitat. Campground fees are included in tuition but students must bring their own gear. ☀

#904 NEW! THE HUMAN DIMENSION OF GRIZZLY BEAR MANAGEMENT



Start: September 9 at 9 a.m.
End: September 12 at 8 p.m.
Location: Cody, WY
Instructor: Charles R. Preston, Ph.D.
\$360
Limit: 12
Credit Pending

Come to Cody, Wyoming to learn about grizzly bears living within and beyond park boundaries. You'll explore the Shoshone National Forest for bears and their sign. Meet local residents who can tell you how grizzly bears affect their lives and livelihood. Find out how one state—Wyoming—plans to manage grizzlies now that they are no longer protected as a threatened species. You'll also spend a day in Yellowstone looking for bears, and have time to discuss how the region's popularity with humans will affect grizzly bear survival. Rooms will be held at the Best Western Sunset Motor Inn until 30 days prior to the course. Call 800-624-2727 for rates and reservations. ☀

#906 NEW! THE PARK'S MOST TRAVELED 30 MILES



Start: September 13 at 9 a.m.
End: September 14 at 4 p.m.
Location: West Yellowstone, MT
Instructor: Paul Shea
\$195
Limit: 12

Every year, thousands of people drive through Yellowstone National Park's West Gate to Old Faithful, most unaware that their 30-mile trip traces the journey of visitors back to the 1870s. Find out the history of this corridor through a series of discussions and field trips. Walk old stage and auto roads to view the park as early visitors did, and learn the role of the railroads in developing the western entrance area. You'll find out the challenges that park managers continue to face in balancing visitor demand with park priorities, and what the future may hold for this well-traveled corridor. Rooms will be held at The Brandin' Iron Inn until 30 days prior to the course. Call 406-646-9411 for rates and reservations. ☀

#907 NEW! GEOLOGY ROAD TRIP



Start: September 13 at 7 p.m.
End: September 15 at 4 p.m.
Location: Mammoth Hot Springs
Instructor: Robert W. Spoelhof, Ph.D.
\$205
Limit: 12
Credit Pending

Join this road trip to view Yellowstone's geologic wonders. Your guide is a geologist who has interpreted the park's geology to thousands of visitors. He'll take you to sites where you can see and understand how geology affects soil, plants, animals, and humans. Find out why hiking across lava flows can be so different from hiking in glacial valleys, and other ways that geology affects our enjoyment of a place. Through discussions, lectures, and field trips, you'll come to understand your own home's geology and its relationship to your life. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀



Photo: Steve Hinch



Watercolor Painting: Molly Hashimoto



Photo: Pam Cabill



Photo: Bryan Harry (NPS)

#908 THE AUTUMN WILDLIFE SHOW



Start: September 16 at 9 a.m.
End: September 18 at 4 p.m.
Location: Mammoth Hot Springs
Instructor: Jim Garry, M.S.
\$270
Limit: 12
Credit Pending

Amid the biggest show of autumn—the elk rut—venture into Yellowstone's Northern Range on short hikes. You'll surely hear the haunting bugle of bull elk echoing across the landscape and you might see wolves testing the strength and speed of well-fed elk. Some small mammals, such as Uinta ground squirrels, have already gone underground, but others—such as red squirrels and pika—continue their intense winter preparations. As you observe the action, you'll learn about complex biological and political challenges affecting the future of Yellowstone wildlife. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. *

#909 NEW! THE BEAUTY AND SCIENCE OF AUTUMN



Start: September 19 at 1 p.m.
End: September 21 at 4 p.m.
Location: Gardiner, MT
Instructor: James Halfpenny, Ph.D.
\$245
Limit: 12

Luminescent aspens, gold-colored fields, subtle lines of red running up mountains—the colors of fall signal changing seasons, life and death, procreation and preparation. Immerse yourself in this wealth of wonder on field trips to explore and photograph aspen groves, colorful hillsides, dying conifers, elk in rut, and traveling wolves. Learn why aspen colors change and how beetles cause red evergreens. Look for wolves teaching their young essential skills for surviving the coming cold and watch elk in the throes of their annual mating season. It's a colorful, wild time in Yellowstone—experience it all! *

#910 NEW! THE PLEASURE OF PLEIN AIR WATERCOLOR



Start: September 19 at 7 p.m.
End: September 22 at 4 p.m.
Location: Gardiner, MT
Instructor: Molly Hashimoto
\$295
Limit: 12

Discover the pleasures of plein air (open air) painting among the flowing travertine terraces and simmering hot springs of Yellowstone. Enjoy studio time in Gardiner learning watercolor techniques and developing your palette. Practice each day in one of the park's colorful thermal areas, drawing and painting Yellowstone's landforms and hydrothermal features. You'll also have the opportunity to view the magnificent art collection held in the Yellowstone Heritage and Research Center, which includes works by Moran, Twachtman, and Widforss and serves as inspiration to artists around the world. *

#911 AUTUMN PHOTOGRAPHY IN YELLOWSTONE



Start: September 23 at 9 a.m.
End: September 26 at 4 p.m.
Location: Gardiner, MT
Instructors: Sandra Nykerk, Terry Donnelly, and Mary Liz Austin
\$370
Limit: 18

Immerse yourself in Yellowstone's autumn while exploring unparalleled photographic opportunities, from bugling elk to the spectacular colors of the changing landscape. Working with three accomplished photographers, you'll build a foundation of technical photographic principles and then move on to explore your own creative vision. You'll also learn the differences between film and digital imaging, the possibilities of macro photography, the importance of understanding natural history, and the essential role of ethics in nature photography. You will need a film or digital SLR camera with which you are familiar and a thorough understanding of basic photographic principles. *

#1001 AUTUMN DAY HIKING IN YELLOWSTONE



Start: October 2 at 9 a.m.
End: October 5 at 5 p.m.
Location: Mammoth Hot Springs
Instructors: Edward Schauster, M.S. and Melissa Pangrazze
\$330
Limit: 11

Autumn day hikes in Yellowstone enliven all of your senses. You'll hear the eerie sounds of bugling elk, smell the fragrance of aspens and cured grasses, feel the contrast of cold breezes and hot sun. As you hike through the park's backcountry, you may see bighorn sheep and migrating hawks, find moose along willow-filled creek beds, or spot the elusive coyote, wolf and bear. Enjoy an easy first day to acclimate to the climate and elevation, taking a short hike and watching wildlife. After that, plan on hiking 8 to 12 miles each day with elevation gains up to 1500 feet. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. *

"Sandra knows her stuff and I feel lucky that we had her. Not only did she have extreme knowledge of photography, she also was an awesome naturalist/tour guide/geologist/jack of all trades!"



Photo: Steve Hinch



Photo: Shirley Cope



Photo: Karen Whitbrow

#1002 WATCHING WOLVES IN AUTUMN



Start: October 2 at 6 p.m.
End: October 4 at 2 p.m.
Location: Slough Creek Campground
Instructor: Nathan Varley, Ph.D.
\$205
Limit: 12
Credit Pending

Set up your tent in the heart of Yellowstone's wolf country—Slough Creek Campground—for a long weekend designed for wolf and outdoor enthusiasts. Imagine falling asleep to howls, dreaming of wolves running, and waking up to watch a pack frolic while your coffee brews. Away from camp, you'll look for resident packs from the road and hike the rugged territories of several different packs. After dinner, you'll listen to the intriguing stories and observations of seasoned wolf biologists and other experts. Campground fees are included in tuition but students must bring their own gear. ☀

#1003 WATCHING WOLVES IN AUTUMN



Start: October 4 at 6 p.m.
End: October 6 at 2 p.m.
Location: Slough Creek Campground
Instructor: Nathan Varley, Ph.D.
\$205
Limit: 12
Credit Pending

Set up your tent in the heart of Yellowstone's wolf country—Slough Creek Campground—for a long weekend designed for wolf and outdoor enthusiasts. Imagine falling asleep to howls, dreaming of wolves running, and waking up to watch a pack frolic while your coffee brews. Away from camp, you'll look for resident packs from the road and hike the rugged territories of several different packs. After dinner, you'll listen to the intriguing stories and observations of seasoned wolf biologists and other experts. Campground fees are included in tuition but students must bring their own gear. ☀

#1004 AUTUMN WILDLIFE WATCHING



Start: October 8 at 9 a.m.
End: October 10 at 4 p.m.
Location: Gardiner, MT
Instructor: George Bumann, M.S.
\$270
Limit: 12
Credit Pending

Who's migrating and who's hunkering down? Which animals are still busy mating, and which have already gone underground? You'll spend three full days in the field observing as many species as possible, with the guidance of a seasoned wildlife biologist. You'll see how different animals deal with this transitional time and learn to recognize their patterns of behavior. Compare what you observe with what scientists have discovered about Yellowstone's wildlife and engage in lively discussions about your experiences and those of other participants. ☀

#1005 OLD FAITHFUL FALL PHOTOGRAPHY WORKSHOP



Start October 9 at 7 p.m.
End: October 12 at 2 p.m.
Location: Old Faithful
Instructor: Pete Houdeshel
\$280
Limit: 12

Crisp days, steaming geysers, bugling elk, the peace of autumn—enjoy these seasonal highlights as you explore Yellowstone with a camera. Through lively classroom presentations and hands-on opportunities in the field, you'll find exciting ways to capture the wonders of this great park. You'll learn technical and visual skills for making memorable photographs, and discuss the new digital techniques for photographing and enjoying your photo creations. Most of our excursions into the park will be easy to moderate hikes that will take us to the less traveled treasures in the Old Faithful area. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

#1006 TEACHER WORKSHOP: WHAT LIES BENEATH



Start: October 16 at 7 p.m.
End: October 19 at Noon
Location: Old Faithful
Instructors: Julianne Baker, M.A. and Danielle Nicholas Fisher, M.Ed.
\$305
Limit: 26

Teachers, go deep beneath Yellowstone, one of the most geologically dynamic places on Earth in search of forces shaping the park and the planet on a grand scale. Using observation, measurement, simulation, modeling, and research, you'll learn about magma and hot spots, future volcanic activity, geyser basin systems, hydrothermal activity beneath Yellowstone, and other geologic forces. Learn interdisciplinary techniques that will excite your students in the classroom and field, and that are correlated to Wyoming, Montana, and Idaho education standards. You'll also take home copies of all instructional materials demonstrated during the workshop. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

BACKPACKING COURSES

If you are a physically fit adult, consider experiencing the Yellowstone wilderness in a small group. Two experts lead each backpacking course. The backpacking instructor will teach the group about wilderness travel, including minimum-impact camping and bear safety. A content instructor will teach about a specific subject (for example, wolves or history) related to Yellowstone.

Every course begins with a classroom day where the morning is spent on orientation to the course topic, the Yellowstone backcountry, the route and itinerary, Leave No Trace principles, and the group expectations and goals. Both instructors will present important information to prepare the group for their backpacking seminar. After lunch as a group, the backpacking instructor will cover the logistical details of backcountry travel, including reviewing food and gear requirements, packing techniques and helpful hints, bear safety, and other backpacking information. You'll be able to make last minute purchases at this time. Stores in nearby communities and in the park carry some backpacking supplies. The afternoon session is required for all participants new to Yellowstone Association Institute backpacking courses. Students who have taken a YAI backpacking course within the last year may be eligible to skip the afternoon session and use the time to pack on their own, purchase supplies, or relax in Yellowstone.

Rates include tents, stoves, and other group equipment but you must provide your own personal equipment (such as backpack, water bottles, sleeping bags, clothing) and food. Students who are not prepared at the time of their course may be asked to refrain from participating.

For all backpacking courses, trip itineraries may change based on trail conditions and the availability of campsites. Participants must secure their own accommodations before and after the course, and for the first evening of the course.

SO HOW DOES THIS ALL WORK?

To register or for more information about a backpacking course, call us at 307-344-2294, 8 a.m. to 4:30 p.m., Mountain Time, Monday through Friday or visit us online at www.YellowstoneAssociation.org. Courses fill fast so register early. Full payment is required at the time of registration. Online course requests are not final until confirmed by our registrar.

After you register, we'll send you a confirmation letter, park entrance pass, and personal data forms. You need to fill out the forms and return them right away; they help us get to know you better so we're prepared for your arrival.

Approximately 30 days prior to your course, we'll mail you a student letter from the instructor and a list of supplies and equipment you'll need. We will send these by email or regular mail, depending on what you requested when you signed up.

CANCELLATION AND REFUND POLICY FOR BACKPACKING COURSES

Payments are fully refundable, less a \$35 per course processing fee, if you cancel at least 60 days before the course. No refunds will be made for cancellations received fewer than 60 days before the start of the course, unless your space can be filled. If we can fill your space, a refund will be made, less the course processing fee. As an alternative, we can credit your tuition to another course of the same type offered before October 1, 2008, on a space available basis. We reserve the right to cancel a course up to 30 days before the first class day. If we cancel, you will receive a full refund. We regret that the Institute cannot make exceptions to the refund policy for any reason, including but not limited to illness, travel delays, emergencies, or weather. We urge you to purchase accident, baggage, and trip cancellation insurance through a travel agent or website such as www.TravelGuard.com. Travel insurance can help protect you against financial loss if you must cancel or interrupt your trip.

WHAT'S THE BEST BACKPACKING COURSE FOR YOU?

Backpacking in a high-altitude environment is a physically demanding activity, and to enjoy your Institute experience without endangering yourself or others, you must be sufficiently fit. You will be required to carry a backpack weighing 50-60 pounds and hike up to eight hours a day at elevations ranging from 5,000 to 12,000 feet. Unless you live at this altitude, your body will experience the stresses associated with hypoxia—i.e., low oxygen. You should expect significant demands on the heart, lungs, and all major muscle groups. You also should be prepared to hike in inclement weather and a dry environment. Hiking in these conditions is more strenuous than hiking in fair weather at sea level, and some people experience associated health complications. We recommend that you talk to your doctor about your suitability before enrolling. To help you decide which course is best for you, we have developed a rating system that takes into account distance, elevation gain, terrain, and even pace. Please do not overestimate your ability. Selecting a course that is too difficult can endanger your health as well as the safety of those around you, and it can diminish everyone's enjoyment.

NOTE: Each backpacking course is rated according to the difficulty scale. ►

BACKPACKING DIFFICULTY SCALE

- ① Leisurely to moderately paced hikes of up to 6 miles per day over relatively flat terrain. Total elevation change will be less than 500 feet per day.
- ② Moderately paced hikes of up to 8 miles per day over undulating terrain. Elevation changes up to 1,000 feet per day are possible.
- ③ Moderately to briskly paced hikes of up to 8 miles per day over sometimes rough and steep terrain. Elevation changes of 1,000 feet per day are likely.
- ④ Brisk to aggressive hiking is expected. You will cover up to 13 miles per day over sometimes rough and steep terrain with possible daily elevation changes of 1,000 feet or more.
- ⑤ Aggressive hiking over extended courses of seven days or longer. Each day can include hikes of up to 13 miles over sometimes rough and steep terrain, on- or off-trail. Elevation changes of up to 2,000 feet likely.

Please note that these ratings are only guidelines: What is labeled "5" might be routine for a very fit hiker while a "3" might be quite difficult to a non-backpacker who lives at sea level. The difficulty of any course can be affected by weather, current environmental conditions, route hazards, and your own fitness, preparedness, and acclimatization. If you still have questions about any course, or if you would like more information about local conditions or the effects of altitude, please call the Institute office and a staff member will be happy to help.



Photo: Pam Cabill



Photo: Bridget Lyons

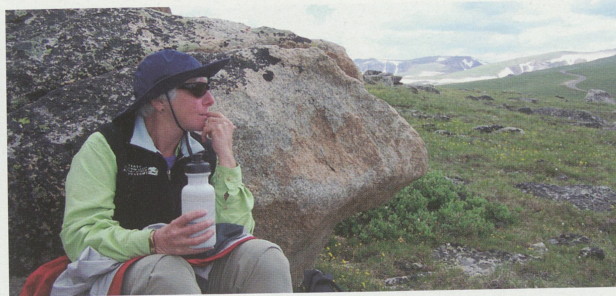


Photo: Julianne Baker



Photo: Libby Jones

#512 GRIZZLY BEAR BASECAMP

2

Start: May 28 at 9 a.m., Gardiner, MT
End: May 31 at 4 p.m.
Location: Slough Creek
Instructors: Jim Garry, M.S. & Backpacking Instructor
\$440
Limit: 8
Credit Pending

Venture into the heart of picturesque Slough Creek, where elk calves are being born and grizzly bears are hunting them. Find out why and how grizzlies seek elk calves; discover what other foods they search for. See where the great bears have been by learning to identify and interpret their tracks, scat, and other sign. Along the trail and in camp, you'll also learn about grizzly bear evolution, taxonomy, folklore, conservation, and management. At sunrise and sunset, you'll be able to look for elk, bison, and bears. 🌟

#608 COUGAR ECOLOGY BACKPACK

4

Start: June 11 at 9 a.m., Gardiner, MT
End: June 15 at Noon
Location: Black Canyon
Instructors: Toni Ruth, Ph.D. and Backpacking Instructor
\$495
Limit: 8
Credit Pending

Rocky terrain and steep, broken canyon sidewalls mixed with small grassy meadows . . . purr-fect cougar habitat! You'll be hiking the Black Canyon, home to some of Yellowstone's cougars. You'll look for tracks, scats, and other sign of these big cats and other carnivores. During the trek and in camp you will learn about cougar food habits, habitat use, interactions with other carnivores, and conservation and management issues. We're unlikely to see a cougar, but they probably will be watching us. 🌟

#618 NEW! DUSTY BOOTS AND SPLATTERED PAINT—ART AND SCIENCE IN THE BACKCOUNTRY

3

Start: June 19 at 9 a.m., Gardiner, MT
End: June 22 at 4 p.m.
Location: Slough Creek
Instructors: George Bumann, M.S. and Aaron Schuerr
\$440
Limit: 8
Credit Pending

Whether you are a beginner or an experienced artist, pack up your paints and pencils, then hit the trail into the backcountry! Learn how to observe and sketch wildlife, and the biology of the animals you paint. Practice techniques for landscapes, including composition, color, and perspective. Explore solutions to challenges such as depicting reflections and surfaces of water, interpreting wildlife accurately, and applying light and shadow. Figure out why a mountain looks the way it does, and how to render it with art. Each day you'll hike to locations for field work, participate in basecamp discussions and lessons, and enjoy friendly critiques of everyone's work. 🌟

#713 NEW! BEARTOOTH BASECAMP

3

Start: July 17 at 9 a.m., Gardiner, MT
End: July 20 at 4 p.m.
Location: Absaroka/Beartooth Mountains
Instructors: John Campbell, Ph.D. and Backpacking Instructor
\$440
Limit: 8
Credit Pending

Enjoy exploring the spectacular Beartooth Plateau and Absaroka Mountains from a basecamp, with daily hikes into alpine and subalpine habitats. You'll study this high and windswept country's ecology—its dramatic geology and its affects on its inhabitants, and why this rugged country is actually so fragile. You'll be in the midst of the high-summer growth season, a perfect time to learn about its wildflowers and trees, and their adaptations to this harsh environment. Discover for yourself the fascination and beauty of this enchanted realm of miniature plants, hay-gathering pika, and birds that dive into snow. 🌟

#720 NEW! BACKPACKING WITH PREDATOR'S EYES

3

Start: July 22 at 9 a.m., Gardiner, MT
End: July 25 at 4 p.m.
Location: Northern Range
Instructors: Steve Primm, M.A. and Backpacking Instructor
\$550
Limit: 8
Credit Pending

Hike into the country that predators hunt so well—the wilderness of northeastern Yellowstone. As you hike, learn to see the land through the eyes of grizzlies, wolves, and wolverines. Search for whitebark pines, which provide essential food for bears. Study elk as wolves do. Discover where wolverines roam. And examine how your presence affects these predators and their prey. As you explore predator country, you'll also see how their world is changing, for good and for bad. By the time you reach the end of your hike, you'll have gained understanding of the challenges facing predators now and in the near future. 🌟



Photo: Karen Withrow



Photo: Scott Morrison



Photo: Shirley Cope



Photo: J. Schmidt (NPS)

#805 EXPEDITION TO THE THOROFARE AND BEYOND

5

Start: August 6 at 9 a.m., Gardiner, MT
End: August 15 at 4 p.m.

Location: Thorofare and Snake River regions

Instructors: Jim Garry, M.S. and Backpacking Instructor

\$990

Limit: 10

Credit Pending

Join this 10-day expedition into remote southeastern Yellowstone. After being dropped off by boat on Yellowstone Lake's eastern shore, you'll hike into wilderness thick with grizzlies and rich in history. Follow routes used by Native Americans and mountain men. Hike up the Yellowstone River to its junction with Thorofare Creek, on to Hawk's Rest, and then over the Continental Divide to the Snake River. Hike down the Snake for a day, then venture north to Heart Lake in the shadow of Mount Sheridan. Each evening, catch your breath and enjoy tales of wanderers and explorers who walked before you. ☀

#813 NEW! BECHLER BACKPACK

3

Start: August 18 at 9 a.m., Gardiner, MT

End: August 23 at 4 p.m.

Location: Bechler

Instructors: Jim Garry, M.S. and Backpacking Instructor

\$770

Limit: 8

Credit Pending

Shoulder your backpack and explore this southwestern corner of Yellowstone in all its wonder. The Bechler is a land of waters—hot and cold, running and still, and falling over dozens of waterfalls. Hike through canyons formed by volcanoes and glaciers, lived in by elk and bear, and carpeted with forests. Soak in lakes and hot springs, wet your feet fording streams, and pause in the rejuvenating spray of waterfalls. Along the way, you'll learn of the people who passed through here—of tribes and explorers, of hunters and poachers. In the evenings, you'll relax to amiable discussions and well-told stories. ☀

#816 WRITING RETREAT: THE WILD SHORE OF YELLOWSTONE

1

Start: August 28 at 9 a.m., Gardiner, MT

End: September 1 at 4 p.m.

Location: Yellowstone Lake

Instructors: Alan Kesselheim and Backpacking Instructor

\$650

Limit: 10

Climb in the boat and leave the workaday world behind—you're heading to the remote southern reaches of Yellowstone Lake to write and reflect and learn. Author and adventurer Kesselheim will help you focus on nature-writing techniques—the art of journal keeping, using wilderness as a source for metaphors, becoming a mindful observer, finding story themes through inquiry, and drawing connections between raw events and universal human experience. We'll be based in one wilderness campsite, so you won't have to haul a heavy overnight pack, but you'll learn about backcountry travel and camping in bear country. Fuel your creative fire with days exploring and observing some of Yellowstone's most untouched and spectacular wilderness. ☀

#901 PELICAN VALLEY GRIZZLY BEAR BASECAMP

5

Start: September 4 at 9 a.m., Gardiner, MT

End: September 7 at 4 p.m.

Location: Pelican Valley

Instructors: Kerry A. Gunther, M.S. and Backpacking Instructor

\$440

Limit: 8

Credit Pending

Hikers familiar with Yellowstone know the Pelican Valley as one of the best places to see grizzly bears in the backcountry. Explore this spectacular country and learn about bear behavior, food habits, habitat use, bear-human interactions, and bear-human conflict resolution. You'll also learn to distinguish the tracks and other sign of a grizzly from a black bear, and perhaps see both species. Our basecamp will be over Mist Pass, so the first and last days are a long backpack with an extremely strenuous climb over the pass, and the middle observation days will require descending and ascending the pass. ☀

#905 AUTUMN WOLF AND ELK BACKPACK

3

Start: September 11 at 9 a.m., Gardiner, MT

End: September 14 at 4 p.m.

Location: Northern Range

Instructors: Dan Stahler, Ph.D. student and Nathan Varley, Ph.D.

\$550

Limit: 8

Credit Pending

On this one-of-a-kind wildlife-watching trip, you'll backpack four days in outstanding elk and wolf country—the open meadows of the southern Gallatin Mountains. Spend frosty mornings and crisp, starry evenings in the company of elk as they gather, feed, and engage in their intricate annual mating ritual. With luck, you'll also see their primary predator—wolves—in action. We'll certainly see sign of wolves and discuss their relationships with elk in Yellowstone. ☀

INSTRUCTOR PROFILES

MARY LIZ AUSTIN (26) is a professional landscape photographer working from a base in Puget Sound, Washington. With her husband, Terry Donnelly, she has traveled to national parks and other public lands to photograph their grandeur. Her photographs have been published extensively in books, calendars, and by the Sierra Club and Audubon Society.

ORVILLE E. BACH, JR., ED.D. (18) is a familiar face at the Old Faithful Visitor Center, where he works each spring and fall as an interpretive ranger. He wrote *Exploring the Yellowstone Backcountry*, a popular hiking guide, and *Tracking the Spirit of Yellowstone: Recollections of Thirty-One Years as a Seasonal Ranger*.

JULIANNE BAKER, M.A. (4, 5, 6, 7, 17, 20, 22, 24, 27) moved to Gardiner, Montana, after more than 30 years visiting Yellowstone to hike, backpack, kayak, and ski. She retired from teaching in Michigan, where she taught environmental science, and now is a Resident Instructor for the Yellowstone Association Institute. She is a graduate of the National Outdoor Leadership School (NOLS), a Wilderness First Responder, and a certified Leave No Trace master educator.

GENE BALL (9, 10) was director of the Yellowstone Association and Institute from 1985–88. He now lives in Meeteetse, Wyoming, and teaches a wide variety of topics and does other freelance projects for a variety of organizations throughout the West.

SHAUNA BARON (4, 5, 6, 7) is a biologist who has studied large and small carnivore species, including wolves, bears, fisher, and bobcat. She has worked with the Colorado-based Mission Wolf captive wolf program, the U.S. Fish and Wildlife Service Red Wolf Project in North Carolina, and as a volunteer for the Yellowstone Wolf Project. Shauna is a Resident Instructor for the Yellowstone Association Institute.

PETE BENGEYFIELD, M.S. (12) has been a hydrologist with the U.S. Forest Service for 28 years. Also an accomplished self-taught nature photographer, Pete has been published in *National Wildlife*, *Outdoor Photographer*, and Sierra Club calendars and many regional publications. He has combined his photography with writing to produce two books, *Mountains and Mesas*, and *Incredible Vision—The Wildlands of Greater Yellowstone*.

DIANE BOYD, PH.D. (12) began studying wolves in Minnesota with Dave Mech during the 1970s. She has since conducted wolf research in Montana, Alberta, British Columbia, Northwest Territories, Romania, Italy, Arizona, and New Mexico. Her subjects included the first wolves to den in Montana since their extirpation in the early 1900s; this occurred a decade before wolves were restored to Yellowstone National Park.

BRAD BULIN, M.S. (4, 5, 6, 7) is a wildlife biologist with more than 10 years experience teaching science at the K–12 and college levels and conducting extensive field research on carnivores, raptors, amphibians, and plants. In addition to being a Resident Instructor for the Yellowstone Association Institute, Brad is an amateur videographer who spends considerable time capturing Yellowstone on tape.

GEORGE BUMANN, M.S. (21, 23, 25, 27, 30) can draw, paint, describe, and teach about all aspects of Yellowstone National Park's ecology. He has a degree in wildlife ecology and experience teaching field biology, ornithology, dendrology, mammalogy, drawing, and field journaling. His art and writing have appeared in popular and scientific publications. His bronze sculptures can be found in collections across the United States, Europe, and in the National Museum of Wildlife Art in Jackson, Wyoming.

JOHN S. CAMPBELL, PH.D. (17, 30) has studied arctic and alpine plant ecology in the Greater Yellowstone Ecosystem since 1973. He is a professor of biology at Northwest College, located immediately east of Yellowstone National Park, and has published an extensive review of North American alpine ecosystems.

MEREDITH E. CAMPBELL (15) holds a Bachelor of Science degree with an emphasis in botany and a certificate in Scientific Illustration. Meredith's botanical and wildlife illustrations have been published in numerous books, magazines and publications. She is a professional artist who has been teaching drawing to both adults and children for the past 20 years.

JAMIE CRAIT, PH.D. CANDIDATE (15) has been studying otters for more than 5 years, earning his master's degree in 2005 and now working toward his Ph.D. at the University of Wyoming. He has earned several awards for his research and has published numerous articles about otters and the ecology of Yellowstone Lake. His research focuses on how declines in cutthroat population affect otters and the ecology of the lake.

DENISE DELUCA, M.S. (20) has over 15 years of experience in surface and groundwater modeling and analyses, environmental compliance, alternative waste management, and green building strategies. She owns an independent consulting service that focuses on strategies for sustainability and is the Outreach Director for the Biomimicry Institute, where she develops materials and programs.

TERRY DONNELLY (26) has worked as a professional landscape photographer for more than 20 years. With his wife, Mary Liz Austin, he has traveled extensively in national parks and around the world seeking those elusive conditions that reveal the mystery and grandeur of nature. His work has been featured in six books and published by Sierra Club and Audubon.

PAUL DOSS, PH.D. (13, 14) vividly describes geologic processes so that you can almost see the landscape forming. Supervisory geologist for Yellowstone National Park from 2000–2001, he teaches in the Department of Geology and Physics at the University of Southern Indiana. For over two decades, he has taught field geology, conducted research, and completed geologic mapping in the Rocky Mountain Region and the Yellowstone Plateau.

KATY DUFFY, M.S. (12) identifies raptors on the wing and songbirds by sound. She is a licensed bird bander specializing in owls, hawks and songbirds, and holds an ecology degree from Rutgers University. A resident of the Greater Yellowstone Ecosystem for more than two decades, she was a naturalist for Grand Teton National Park before becoming the West District Interpretive Ranger for Yellowstone National Park.

WILLIAM C. EDWARDS, PH.D. (16, 22) is a retired professor of biology who has taught at high school, junior college, and university levels. Now living in the Yellowstone area, he pursues his interest in plant ecology of Grand Teton and Yellowstone national parks. He has worked for both parks as a seasonal ranger, researcher, and volunteer.

TERRY ENK, PH.D. (10) studied bighorn sheep and mountain lions for his doctorate from Montana State University. He has also conducted mountain lion research with the Hornocker Wildlife Institute, assisted in developing a strategy to protect wildlife along the U.S.-Mexico border, and served as wildlife biologist for the New Mexico Department of Game and Fish. He now is a wildlife consultant from his home in Boise, Idaho.

DANIELLE NICHOLAS FISHER, M.ED. (22, 27) enjoys sharing the wonders of the natural world with learners of all ages as an award-winning education specialist for Yellowstone National Park. She has worked as a middle school teacher, backcountry instructor, and wrangler throughout the Northern Rockies. She is a certified biology teacher and received her master's degree in education with a focus on inquiry and problem-solving.

DUNCAN FOLEY, PH.D. (19) is coming back for his 30th and perhaps final year teaching in Yellowstone, where he guides students among the ever-changing and fascinating hydrothermal features and teaches about the volcano that fuels them. A professor of geosciences at Pacific Lutheran University in Tacoma, Washington, he is the author of *Yellowstone's Geysers and Other Hydrothermal Features*.

JIM GARRY, M.S. (9, 11, 12, 21, 22, 26, 30, 31) weaves together natural history, human history, folklore, and myth into spell-binding stories. A naturalist and folklorist, he has spent a good part of the past four decades in the Yellowstone ecosystem. Since 1980 he has directed Great Plains Lore and Natural History, Inc. His books include *This Ol' Drought Ain't Broke Us Yet* and *The First Liar Never Has a Chance*.

BOB GRESSWELL, PH.D. (11) knows the cutthroat trout intimately after more than 30 years studying this fish. He is a research biologist with the USGS Northern Rocky Mountain Science Center in Bozeman, Montana, and has affiliate faculty appointments at Montana State University and Oregon State University.

KERRY A. GUNTHER, M.S. (9, 31) is the Bear Management Biologist for Yellowstone National Park, where he has worked in grizzly bear and black bear research and management for more than two decades. He has published papers on bear management, grizzly bear-human interactions, bear inflicted human injuries, and grizzly bear predation on elk calves, bison calves, and spawning cutthroat trout. He is the recipient of the 1997 Sigurd Olsen Environmental Achievement Award and the 2005 U.S. Department of Agriculture Conservation Project of the Year Award.

JAMES HALFPENNY, PH.D. (9, 11, 12, 18, 19, 20, 21, 22, 23, 26) is an ecologist, educator, and writer who has taught field courses since 1961 and was coordinator of Long-Term Ecological and Alpine Research at the University of Colorado. Jim, president of A Naturalist's World, produces educational books, computer programs, and videos, and travels the world teaching about bears, wolves, and animal tracks. Jim's most recent books are *Yellowstone Wolves in the Wild* and *Yellowstone Bears in the Wild*.

MARK HAROLDSON (11) has studied bears for more than 30 years. He is supervisory wildlife biologist for the Interagency Grizzly Bear Study Team in Bozeman, Montana, and has authored or coauthored more than 25 publications about grizzly bears. Recent works include co-authoring a *Wildlife Monograph* (no. 161) on grizzly bear population parameters in the Yellowstone ecosystem and a book chapter on grizzly bear ecology and management.

MOLLY HASHIMOTO (26) has been painting watercolors for over 25 years. Her paintings of the North Cascades and Pacific Northwest have been widely exhibited; she has also illustrated several children's books. In addition to teaching at the Yellowstone Association Institute, she teaches at the North Cascades Institute and the Sitka Center for Art & Ecology.

HANNAH HINCHMAN (17) a journal-keeper for more than 40 years, is earning her MFA in graphic design at Indiana University. In addition to teaching her renowned workshops, she has also worked with graduate students in architecture, geography, and design at Louisiana State University. Her books include *A Trail Through Leaves: the Journal as a Path to Place* and the award-winning *Little Things in a Big Country: an Artist and her Dog on the Rocky Mountain Front*.

PETE HOUDSHEL (27) has been a professional photographer for 35 years, and has taught numerous photography workshops. His photographs have appeared in many venues, including magazines such as *National Geographic Traveler*, programs for the PGA golf tournaments, and promotions for the Winter Olympics in Salt Lake City. Old Faithful in the autumn is one of his favorite places to photograph.

JEFF HULL, M.F.A. (17) has led a diversified and entertaining life as a freelance writer since a class-assigned query letter landed him a magazine assignment. He teaches journalism at the University of Montana and has published articles in magazines as varied as *Audubon*, *Men's Journal*, *Fortune*, and *Travel & Leisure*. His writing has been nominated for the National Magazine Award by *The Atlantic Monthly*, and listed by *Best American Sports Writing* (2001).

CHERYL JAWOROWSKI, PH.D. (24) is a geologist for Yellowstone National Park. Her scientific research and interests include Yellowstone's volcano, glacial geology, geologic mapping, and the evolution of the landscape. She has enjoyed hiking and skiing in the Greater Yellowstone area for more than 20 years.

ALAN KESSELHEIM (23, 31) is a wilderness adventurer, accomplished paddler, freelance writer, and workshop leader. Adventures in wild places have fueled much of his writing. He has written hundreds of magazine pieces and nine acclaimed books, including *Water and Sky: Reflections of a Northern Year* and *Threading the Currents: A Paddler's Passion for Water*. He has taught popular writing classes at the Buffalo Ranch and on the shores of Yellowstone Lake since 2001.

ROBYN KLEIN, M.S. (20) has taught about medicinal and edible plants for over 20 years, including at Montana State University. She helped to pass one of the strictest laws in the nation against poaching medicinal plants, and now serves as Phytosleuth of the Biomimicry Guild, searching for nature's best ideas.

MACNEIL LYONS (4, 5, 6, 7) is an experienced National Park Service ranger and educator. He has served at the Blue Ridge Parkway, Point Reyes National Seashore, Golden Gate National Recreation Area, and Yellowstone National Park. Currently a Resident Instructor for the Yellowstone Association Institute, he designed the Institute's award winning *Yellowstone for Families* program. MacNeil is also a published writer and photographer.

DAN MACNULTY, PH.D. (18) began his career as one of the park's first volunteer wolf research assistants, where he led efforts to document the behavior of wolves hunting elk and bison. In his graduate work at the University of Minnesota, he examined the development to wolf hunting ability, and the role of cooperation in group hunting behavior.

TIMOTHY P. MCCLEARY, PH.D. CANDIDATE (11) works with the Crow Nation to record and share their history, traditions, and culture. He is a professor at Little Big Horn College, the Crow tribal college, and is a Ph.D. candidate in anthropology at the University of Illinois: Urbana-Champaign. He has published papers on Crow culture, and the book, *The Stars We Know: Crow Indian Astronomy and Lifeways*.

TERRY MCENEANEY (9, 14, 25) recently retired after serving more than 30 years as Yellowstone National Park's ornithologist. He teaches field ornithology throughout Montana and Wyoming, and wrote *Birds of Yellowstone*, *The Uncommon Loon*, and *Birding Montana*. He is writing a book on the ecology of Yellowstone birds and a scientific monograph on the Yellowstone trumpeter swan.

GRANT A. MEYER, PH.D. (23) studied fires and climate change in northern Yellowstone, which earned him the 1997 Kirk Bryan Award of the Geological Society of America. He is assistant professor in the Department of Earth and Planetary Sciences at the University of New Mexico and has studied landforms and geological processes in Yellowstone since 1983.

LISA MORGAN, PH.D. (20, 21) studies the geology and geophysics of volcanic terrains in and near Yellowstone National Park as a research geologist for the U.S. Geological Survey. With Ken Pierce, she developed major concepts and a model for the Yellowstone hot spot. Currently, she is focusing on caldera-forming eruptions, rhyolitic lava flows, hydrothermal explosions, and the geology of Yellowstone Lake.

KERRY MURPHY, PH.D. (9, 22) is a wildlife ecologist and management biologist for Yellowstone National Park. He has researched and managed the wild cats of the Northern Rocky Mountains. He currently works on furbearer (e.g., lynx) and endangered species conservation, and has published numerous scientific and popular articles on carnivore ecology.

SUE CONSOLO MURPHY, M.S. (11) is Chief of Science and Resource Management at Grand Teton National Park, and also worked for Yellowstone National Park from 1982 to 2003. She has worked with the Interagency Grizzly Bear Study Team and served on the conservation strategy team for Yellowstone's grizzlies. She has written papers on grizzly management and a book, *Wildlife @ Yellowstone*.

TOM MURPHY (16) owns Wilderness Photography Expeditions and conducts natural history photography seminars primarily in Yellowstone National Park. Tom's work has been published in *The New York Times Magazine*, *Newsweek*, *Outside*, *National Geographic*, and most of the major magazines that deal with natural history. Tom has published several books, including *The Light of Spring* and *The Comfort of Autumn: The Seasons of Yellowstone*.

SANDRA NYKERK (13, 26) is a naturalist and photographer who lives in Gardiner, Montana. She has taught photography workshops and natural history programs throughout the country for nearly 25 years and her photographs and fine art images are widely published and exhibited. Sandra's interdisciplinary degree in photography, cultural anthropology, and environmental history explored the role of photography in the cultural and personal perceptions of natural spaces, especially Yellowstone National Park.

TOM OLLIFF, M.S. (19) has worked in Yellowstone for more than 30 years, and written about recreationists impacting wilderness, controlling non-native species, and the ecology of native rare, threatened, and endangered species. Currently Chief of the Yellowstone Center for Resources, he leads a team of scientists and resource experts working in high-profile and controversial areas such as bison management, wolf restoration, invasive species, and climate change.

MELISSA PANGRAZE (26) obtained her degree in wildlife science from Purdue University. As an Institute backpacking instructor, she specializes in leadership, communication, and low impact backpacking techniques. She has guided for many organizations in a variety of places, but always finds her way back to Yellowstone country where she feels education about the ecosystem is of utmost importance.

CHARLES R. PETERSON, PH.D. (13) has studied the amphibians and reptiles of the Greater Yellowstone Ecosystem since 1989. He currently is a professor in the Department of Biological Sciences at Idaho State University and curator of Herpetology at the Idaho Museum of Natural History.

WAYNE PHILLIPS (20) is a former Forest Service ecologist who now teaches and writes about the flora of the Rocky Mountains and Great Plains and is active in the Montana Native Plant Society. He wrote *Central Rocky Mountain Wildflowers*, *Northern Rocky Mountain Wildflowers*, and *Plants of the Lewis and Clark Expedition*.

HAROLD PICTON, PH.D. (10, 21, 22) is emeritus professor of wildlife at Montana State University and studies herbivores, carnivores, and wildlife management history. He and more than 50 previous graduate students have published more than 100 articles in both the scientific and popular press, many of which deal with the Yellowstone area.

KENNETH PIERCE, PH.D. (15) retired from the U.S. Geological Survey where he studied the geologic origin of Rocky Mountain landscapes. He received the Kirk Bryan Award of the Geological Society of America for his report on the glacial geology of northern Yellowstone. He co-authored *Interpreting the Landscape: Recent and Ongoing Geology of Grand Teton and Yellowstone National Parks* and *Creation of the Teton Landscape*, and is exploring geologic controls on Yellowstone's ecology.

CHARLES R. PRESTON, PH.D. (25) is Chief Curator of the five museums of the Buffalo Bill Historical Center and the Curator-in-Charge of the Draper Museum of Natural History, in Cody, Wyoming. A zoologist and wildlife ecologist, he is exploring ecosystem-level biodiversity, large predator ecology, and human-predator relationships. He is also a strong advocate for the role of scientists as public educators. His most recent book, *Golden Eagle: Sovereign of the Skies*, was released in 2004.

STEVE PRIMM, M.A. (15, 30) is Field Director for Keystone Conservation. He has conducted field research, and worked on projects involving community-based conservation and backcountry food storage. Steve has published articles on carnivore conservation and ecosystem management in *Conservation Biology and Policy Sciences*, and contributed chapters to the book, *Co-existing with Large Carnivores: Lessons from Greater Yellowstone*.

LESLIE J. QUINN, M.ED. (16, 24) trains park bus tour guides, boat guides, and wranglers for Xanterra Parks and Resorts in Yellowstone. He also contributes to *Yellowstone Science*. His special interests include Yellowstone Park village history, the Howard Eaton Trail, and the maritime history of Yellowstone Lake.

TONI RUTH, PH.D. (30) has studied cougars and other large carnivores in habitats throughout the United States—including Yellowstone. She spent many winters snowshoeing the park's backcountry studying how wolf reintroduction affected cougars; now she is writing a book about that project. She is currently a contract biologist with the Selway Institute in Bellevue, Idaho.

EDWARD SCHAUSTER, M.S. (26) earned his graduate degree in wildlife biology and has studied many species, including coyotes in the Lamar Valley and swift foxes and coyotes in Colorado. He resides in Driggs, Idaho, where he is an EMT, teaches for the Wilderness Medicine Institute and National Outdoor Leadership School (NOLS), and is on the ski patrol at Grand Targhee Resort.

AARON SCHUERR (21, 30) has taken many trips to Yellowstone from his home in Livingston, Montana, to capture the park's varied landscapes in luminous paintings. His art has been featured in *The Montana Quarterly*, *The Pastel Journal*, and *Artist's Magazine*. His work has been shown with the Pastel Society of America, at the C.M. Russell Auction and Exhibition, and in galleries throughout the West.

NANCY SEILER (24) creates her detailed botanical illustrations in graphite, pen and ink, colored pencil, and watercolor. An experienced instructor, Seiler received her certificate in botanical illustration through The Denver Botanic Gardens. She is a member of the Montana Native Plant Society and the American Society of Botanical Artists.

PAUL SHEA (25) has lived and worked in the Yellowstone area since 1979, and been involved in the collection and interpretation of the history of West Yellowstone and surrounding area for more than a decade. Today he serves as the curator for the Yellowstone Historic Center and as president of the Museums Association of Montana.

CHRISTINE SMITH (14) previously taught high school wildlife biology and now works in the Research Permit Office in Yellowstone National Park, helping to organize and regulate research in the park. She has lived in the Yellowstone area since 1994 and has worked with the Yellowstone Wolf Project since 1999.

DOUGLAS SMITH, PH.D. (14) leads the Yellowstone Wolf Project. He has published widely on the subject in magazines, books, and scientific journals. He is the co-author of *The Wolves of Yellowstone and Decade of the Wolf*, a summary of the first ten years of wolf recovery in Yellowstone. He also appears in the National Geographic video entitled *Return of the Wolf*.

ROBERT W. SPOELHOF, PH.D. (14, 25) teaches an annual course at Calvin College on the geology of the national parks and is an interpretive park ranger at Yellowstone and Death Valley national parks. His specialty is clarifying geologic complexity for the public. Before working in Yellowstone, Bob spent 27 years as an exploration geologist specializing in the Rocky Mountain region.

DAN STAHLER, PH.D STUDENT (16, 18, 31) has studied wolves since 1996. He earned his master's degree studying the relationship between Yellowstone's ravens and wolves, and is now researching wolf social dynamics and genetics for his doctorate. He is the project biologist for the Yellowstone Wolf Project where he helps coordinate and direct research on wolves, their prey, and scavenger communities.

BRIAN THORPE, M.S. (19) has been interpreting Yellowstone and Glacier National parks for visitors since 1988 for the National Park Service, Yellowstone National Park Lodges, and the Yellowstone Association Institute. He earned his masters degree in 2000 with a thesis project examining neotropical migrant birds in Yellowstone National Park.

RHEA TOPPING (19) is certified as a Master Casting Instructor worldwide by the Federation of Fly Fishers and was named Woman of the Year by that organization in 1999. She has been an Institute instructor since 1998, and instructs and runs angling trips worldwide under the company name Mayfly Adventures. Rhea is the author of *Rod Rage, A Guide to Angling Ethics*, the first book written on fly-fishing etiquette, and recently produced her first DVD, *The Double Haul*.

JON TRAPP, M.A. (10, 24) served as a wolf biologist for Montana Fish, Wildlife & Parks until 2007. He has worked for the Mexican Wolf Program in Arizona, the Nez Perce Wolf Program in Idaho, and for the U.S. Fish and Wildlife Service on Wyoming wolf management. He earned his master's degree in conservation biology and environmental education from Prescott College, with a thesis focusing on wolf den site selection in the Northern Rockies.

DAN TYERS, PH.D. (12) has been involved in wildlife research and management in the Yellowstone area over 30 years. Currently, he is the District Wildlife Biologist and program manager for wildlife, wilderness, and trails for the Gardiner Ranger District, Gallatin National Forest. His doctoral research involved the winter ecology of moose in the Northern Range of Yellowstone.

NATHAN VARLEY, PH.D. (10, 13, 18, 27, 31) is a natural and cultural historian specializing in the Greater Yellowstone Ecosystem, where he has lived almost his entire life. As a wildlife biologist, he has studied many of Yellowstone's large mammals, including elk, wolves, bears, and bison. For his Ph.D. at the University of Alberta, he focused on the effects of wolf restoration on the park's Northern Range elk herd.

JENNIFER WHIPPLE, M.A. (13) brings enthusiasm and expertise to her work as botanist for Yellowstone National Park. She has lived in Yellowstone for more than 25 years and taught many classes in botany for the Institute. She also has taught plant taxonomy and grass identification labs at Humboldt State University, is former president of the Wyoming Native Plant Society, and co-authored the *Wyoming Rare Plant Field Guide*.

LEE WHITTLESEY, M.A., J.D., PH.D. (HON.) (18, 23) can tell you who named Old Faithful, when it happened, and probably what the weather was. He is Yellowstone National Park's historian. He has written more than a half dozen books about the park, including *Death In Yellowstone* and *A Guide to Yellowstone Waterfalls and Their Discovery*. His most recent book is *Storytelling in Yellowstone: Horse-and-Buggy Tour Guides in the Grand Old Park, 1872-1920*.

WILDERNESS MEDICINE INSTITUTE (10), an institute of the National Outdoor Leadership School (NOLS), has been a leader in wilderness medicine education since 1976. WMI provides all levels of wilderness medicine training for state and federal agencies, colleges, and outdoor programs throughout the West.

JASON WILMOT, M.E.M. (15) is the Executive Director of the Northern Rockies Conservation Cooperative in Jackson, Wyoming. He is the lead field biologist with the Absaroka Beartooth Wolverine Project, and is a contributor to *Co-existing with Large Carnivores: Lessons from Greater Yellowstone*.

SUSAN ZWINGER, PH.D. (14) infuses her teaching with her enthusiasm, curiosity, knowledge, and extensive art and writing experience. She avidly explores natural areas and environmental issues, bringing them to audiences through her many articles and books. She has published more than 70 poems; her first of five natural history books, *Stalking the Ice Dragon*, won the 1992 Governor's Writers Award.

TWO WAYS YOU CAN HELP YELLOWSTONE

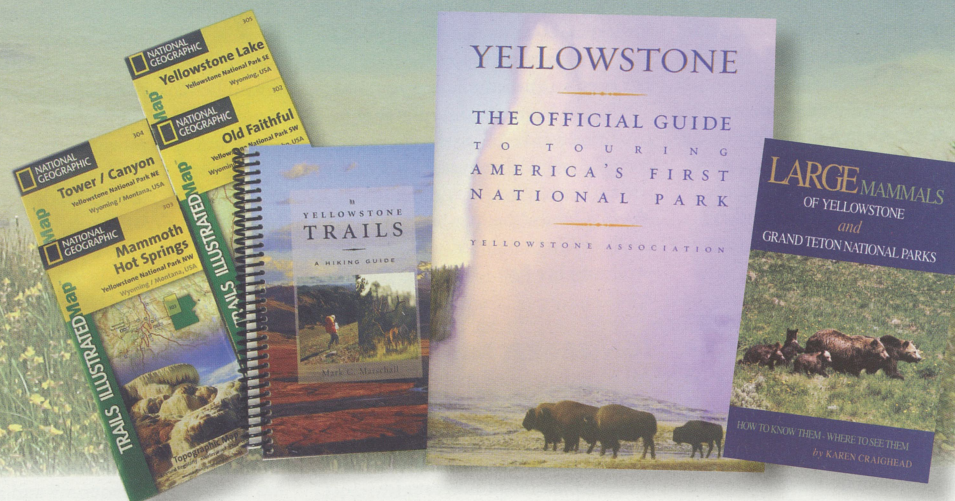


Photo: Pam Cahill

1. JOIN THE YELLOWSTONE ASSOCIATION

Now that you know about our classes, find out more about the Yellowstone Association. By joining, you'll increase your support for Yellowstone National Park and reduce your class fees. The Yellowstone Association has been the park's official educational partner since 1933, providing a wide range of educational programs and services designed to help people understand and enjoy this remarkable place. We believe education is the best way to protect wild places, and we need your help to preserve Yellowstone for future generations. To become a member, please complete the membership section on the Institute registration form on page 38 or join online at www.YellowstoneAssociation.org. You'll receive benefits including a \$10 discount on each Institute course that you attend, a 15% discount on products at our Park Store, and a subscription to our quarterly magazine, *Yellowstone Discovery*.

2. BUY BOOKS AND GEAR FROM THE PARK STORE

The Yellowstone Association's Park Store features more than 900 books, maps, and videos to help you plan your visit. You'll also find a wide selection of shirts, hats and other gear you can use in the field—and which will remind you of your time in Yellowstone. To purchase items, please visit the Park Store at www.YellowstoneAssociation.org or call toll-free 877-967-0090. Members of the Yellowstone Association receive a 15% discount.

Proceeds from memberships and purchases are donated to the National Park Service to support education and research in Yellowstone.

Visit our website at www.YellowstoneAssociation.org or call 307-344-2294.

GENERAL INFORMATION

ALTITUDE

Most of Yellowstone Park is above 6,000 feet. If you live at or are coming from altitudes below 5,000 feet, allow at least one acclimatization day before beginning strenuous activity. This will give your body time to begin adjusting to the altitude.

RELEASE FROM LEGAL LIABILITY AND COLLECTION OF HEALTH INFORMATION

On receipt of your completed registration form, we will send you an Assumption of Risks/Release of Liability form. All participants, including minors, are required to sign and return these forms. We will also send a form that will help us identify medical conditions that could be affected by the environment or activity. All information on your health form will remain confidential and will be reviewed only by Institute personnel or a licensed physician.

SAFETY, RESPONSIBILITY, AND RISK

Your safety is important to the Institute. We have established procedures to minimize the potential for medical emergencies and to provide an appropriate response, should an emergency occur. All members of the Institute staff are expected to follow these procedures. Our staff has also received training in driver safety, wilderness first aid, and the use of portable emergency radios.

Once you enroll, you will need to complete a health form and fully and accurately inform Institute staff of relevant medical conditions that could affect your well-being and the well-being of others on your trip. Specifically, we will want to know if you have any conditions that can be aggravated by the environment of Yellowstone (e.g., altitude; dry, hot summer weather; smoke from nearby fires, etc.), by the activity or workload, or might otherwise cause you to be a risk to yourself or others. The Institute needs and expects you to take an active role in protecting yourself. You will be asked to obtain and arrive with proper clothing and equipment. (A list with recommendations will be provided for your convenience.) Once you arrive, you will be expected to continually monitor your condition, stay hydrated and well fed, make prudent decisions, and keep Institute staff informed of your status and well being. If and when you see any type of potential danger, you should make sure you point it out to your course leader and your co-participants.

Even with these combined efforts toward participant safety, it is important that you realize we cannot guarantee your safety. All Institute programs entail inherent risk; many of these risks simply are associated with exercising at moderate altitudes in mountainous or wilderness terrain. Even in our leisurely programs that do not stray far from developed areas, advanced medical care may be significantly delayed.

WEATHER

The weather in Yellowstone Park obviously varies according to the season, but it is dry nearly year-round. Be sure to drink plenty of fluids, which will not only help prevent dehydration, but can assist with acclimatization. If you are coming during a particularly hot or cold time, realize that the temperature extreme can add considerably to the difficulty of the course.



Photo: Karen Withrow

Members of the Yellowstone Association receive a \$10 discount.

2008 REGISTRATION/MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip _____

Home Phone _____ Business Phone _____

Cell Number _____ Email Address _____

Where can you be reached one month prior to the course? (if different than above)

ADDRESS

TELEPHONE

- ☐ I have read the refund policy and understand to receive a refund, I must cancel at least 60 days before a course and pay \$35 course processing fee.
- ☐ Check here if you are a current member of the Yellowstone Association or are joining now.

MEMBERSHIP INFORMATION

☐ Renewing ☐ Joining

Memberships are family memberships, and include children through the age of 18. One membership card is usually issued per family. Additional cards are available upon request.

Annual Membership Dues:

- ☐ Gardner \$35
☐ Gibbon \$50
☐ Firehole \$100
☐ Lewis \$250
☐ Madison \$500

The Yellowstone Society:

- ☐ Lamar \$1,000
☐ Gallatin \$2,500
☐ Bechler \$5,000

MEMBERS NOTE:

Members receive a \$10 per course discount. If you are a Yellowstone Association member, be sure to deduct \$10 from each course cost when calculating tuition!

Course #	Title	Dates	Tuition
1.			
2.			
3.			

Lodging:

- ☐ I want to stay at the Institute cabins at Lamar the following nights at \$25/night.

Dates _____

- ☐ Male ☐ Female (Please check for cabin lodging.)

- ☐ My class does not meet at the Lamar facility. See course descriptions for recommended lodging or contact the registrar.

- ☐ I will make my own lodging or camping arrangements.

Total tuition fee(s) \$ _____

Cabin fee(s) at \$25 per person per night _____

Membership (optional, see left) _____

Total Enclosed \$ _____

Payment by: ☐ Check ☐ American Express ☐ Discover ☐ MasterCard ☐ Visa

Credit Card# _____ Exp. Date _____

Signature _____

Would you prefer to receive your pre-course letter via email ☐ or regular mail? ☐ _____
 This will be sent approximately 4 weeks prior to your course.

Mail to:

Yellowstone Association Institute
 P.O. Box 117
 Yellowstone Park, WY 82190

Fax to:

307-344-2485

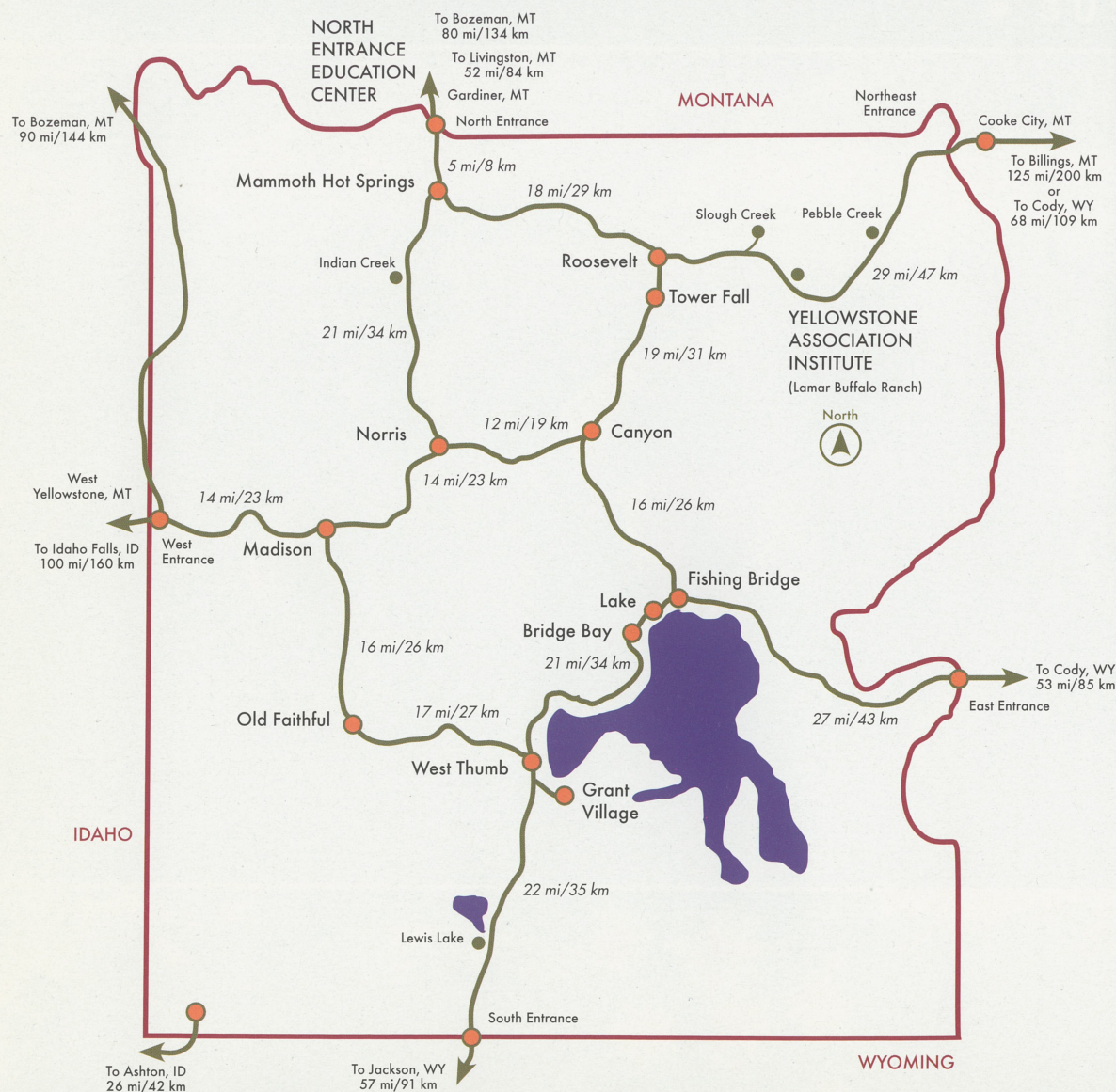
Telephone:

307-344-2294

Please duplicate this form for multiple participants, or go to our website for additional forms.

Visit our website at www.YellowstoneAssociation.org or call 307-344-2294.

TRAVEL INFORMATION



Directory

Camping and Park Information
National Park Service
Visitor Services 307-344-2107
www.nps.gov/yell/

Lodging, Campground, Activity Bookings
Xanterra Parks & Resorts®
307-344-7311
www.travelyellowstone.com

Wyoming Travel Information
Wyoming Division of Tourism
800-225-5996
www.wyomingtourism.org

Montana Travel Information
Official State Travel Information
800-847-4868
www.visitmt.com

Airports

Distances/Auto Travel Times To Lamar Buffalo Ranch Field Campus

Billings, MT	From Billings
	via Red Lodge 143 mi. 3 1/2 hrs.
	via Livingston 207 mi. 3 3/4 hrs.
Bozeman, MT	From Bozeman
	via Livingston 118 mi. 2 1/2 hrs.
Cody, WY	From Cody
	via East Entrance 126 mi. 3 hrs.
	via Northeast Entrance 84 mi. 2 1/4 hrs.
Idaho Falls, ID	From Idaho Falls 240 mi. 4 1/2 hrs.
Jackson, WY	From Jackson 146 mi. 3 1/2 hrs.
West Yellowstone, MT	From West Yellowstone 70 mi. 2 hrs.

Plan on extra driving time in the park.
The speed limit is 45 mph or lower.

Members of the Yellowstone Association receive a \$10 discount.



YELLOWSTONE
ASSOCIATION
INSTITUTE

P.O. Box 117
Yellowstone National Park
Wyoming 82190

www.YellowstoneAssociation.org

CHANGE SERVICE REQUESTED

FIRST CLASS