Welcome to Yellowstone National Park. If you are a newcomer to the Yellowstone Forever Institute, you will be amazed at what awaits you during each day of exploration. We are glad that you are able to join us in Lamar Valley, a truly special place to call home while in Yellowstone! Our goal is to provide you with an enjoyable, high-quality educational experience and a safe and memorable visit to Yellowstone.

The following information is provided to help you prepare for your program. Please read it thoroughly and call us at 406.848.2400 or email contact@yellowstone.org if you have any questions. We recommend all first time visitors seek general park information through the National Park Service at 307.344.2107 or www.nps.gov/yell.

Important Information Included in this Document:

- Letter from Your Instructor
- What’s Included
- How to Prepare for this Program
- Suggested Reading
- Yellowstone Forever Park Store Information
- Yellowstone Forever Supporter Information
- Code of Ethics
- Cancellation Policy
- Travel Information
- Supplemental Lodging Information

From the Instructor

Welcome to the Yellowstone Forever Field Seminar, Wolves and Willows! Many visitors in Yellowstone National Park view the animals and landscapes as disconnected; our goal is to show you how connected and sensitive the ecosystem is through the investigation of trophic cascades.

We will meet at the Lamar Buffalo Ranch in the “the Serengeti of America,” Lamar Valley. We will use the first evening to introduce ourselves and the program, and lay the groundwork to build off for the remaining days. Of course, these schedules are subject to change in the event of wildlife viewing opportunities. Most of our two full days will be spent in the field investigating which animals change riparian habitats actively and passively, how researchers are measuring the effects of these changes throughout different populations, and how the ecosystem has changed in the northern range with fluctuating wolf, elk, and beaver populations.
The entire program will take place on the northern range, minimizing our travel time and maximizing our time in the field. This area is known for historically high densities of wolves, beavers, and ungulates. This combination sets up a perfect ecological laboratory for our discussions of trophic cascades and why this idea in Yellowstone is so fiercely debated in the scientific world.

Our search for data will lead our investigation from riparian areas dense with willows to wide open valleys full of predators and prey. We will explore the role of riparian plant communities (including willow field identification with a botanical key), beaver colonies, willow dependent songbirds, resident elk herds, and wolves in how they affect one another.

This program will have short classroom lectures to emphasis important concepts while enjoying most of the time in the field. Please come prepared for warm, sunny conditions with a few extra layers for the early morning chill of the Rocky Mountains.

We look forward to sharing the intricacies of Yellowstone with you!

If you have any questions, feel free to contact us using the information below.

Dan Kotter P: 812-881-7200 E: dan.kotter@colostate.edu
Brenna Cassidy P: 815-353-1024 E: brenna.j.cassidy@gmail.com

Program Itinerary

**Day 1**
7:00 p.m. Introduction to Lamar Buffalo Ranch and instructors
7:30 p.m. A Century of Ecology in Yellowstone’s Northern Range Presentation

**Day 2**
7:00 a.m. Optional morning wildlife watching
9:00 a.m. Board bus for day in the field
          “Big Picture” Ecology in Lamar Valley/Blacktail Plateau
          Wolves: Re-Introduction and Trophic Cascades
          Who’s eating the willows? Herbivores across the northern range
5:00 p.m. Return to the ranch
5:30 p.m. Dinner break
6:30 p.m. Optional evening wildlife watching

**Day 3**
7:00 a.m. Optional morning wildlife watching
9:00 a.m. Board bus for day in the field
          Beaver Ecology past and present
Be an Ecologist!
  Collect data at long term willow study sites
  Learn to field key willow species
  Songbird ecology in willow patches
  The future of Yellowstone Ecology and connecting the dots

3:30 p.m.  Return to the ranch
4:00 p.m.  Wrap up discussion
5:00 p.m.  Program ends

What's Included:
Your tuition includes daily outings and transportation during your program. It does not include transportation to the park, park entrance fees, or lodging. Meals are included only on select programs with included catering. Gratuities are not included in the price of programming. If you would like to recognize exceptional service by a Yellowstone Forever Institute staff member, tips are appreciated. Donations to support Yellowstone Forever educational programs are also appropriate and will be used to improve and expand opportunities for people to make deep connections to Yellowstone.

Continuing Education Credit
Many of our Field Seminars are recognized by universities across the country. We are happy to provide a letter of completion and supporting documentation that you can submit to the institution of your choice to request approval for university credit or CEUs.

Lodging Option
Yellowstone Forever Institute students in Field Seminars based out of Lamar Valley have the opportunity to stay in our comfortable lodging at the historic Lamar Buffalo Ranch for an additional charge. Each log cabin has three single beds, chairs, propane heaters, and reading lamps. The ranch has a bathhouse with private showers and a common building with a fully equipped kitchen where you can prepare your own meals. For more information please see the last page of this document. Feel free to call our contact center at 406.848.2400 to make your reservations today.

How to Prepare for this Program:

How fit do you need to be?
This program is an activity level 3 and students enrolled in this program are expected to be active participants. Be prepared to hike up to 5 miles per day, comfortably, with occasional elevation gains up to 1000 feet in undulating terrain. We recommend you begin an exercise program right away if you have not already done so. Participants residing at lower elevations may want to arrive a day early to adjust to the altitude. To learn more about how specific medical conditions can be affected by Yellowstone’s environment and our activities, please visit www.Yellowstone.org/experience/health-information/
General Clothing and Equipment List
Much of your time will be spent outdoors and all programs are held rain, snow, or shine. You should be prepared for a variety of mountain weather conditions and temperatures. Appropriate clothing, equipment, and footwear are very important. Spring, summer, and fall temperatures can range from below freezing in the mornings to 85 degrees Fahrenheit in the afternoons. The layered use of garments for protection against the wind, sun, and temperature extremes should guide your clothing choices. Loose-fitting layers allow you to maintain a comfortable and dry body as outside temperatures change, and as your own body temperature and moisture output changes with different levels of exertion. Some colder-weather items may not be needed in July or August, but please keep in mind that Yellowstone’s weather is unpredictable.

Equipment:
Yellowstone Forever field staff assigned to your program will be carrying a first aid kit, bear spray, and emergency communication device.

- **Daypack,** with enough capacity to carry extra clothes, water, lunch, camera, binoculars, field guides, etc.
- **Water bottle,** one-quart is the minimum recommended. Camelback or similar hydration systems work well in summer but can freeze in winter.
- **Sunglasses**
- **Sunscreen/lip protector,** sun at high altitude can burn unprotected skin quickly.
- **Camera, binoculars**
- **Notebook/pencil**
- **Pocket hand and foot warmers,** recommended November through May.
- **Flashlight/Headlamp,** a small light for walking to and from your cabin in the evenings and mornings.
- **Alarm,** so you’re on time for the day’s activities.

Summer Clothing:
- **Insulating underwear,** capilene, polypropylene, or similar wicking fabric.
- **Midweight insulating layer,** light, 200-weight synthetic fleece or wool shirt/pullover.
- **Heavyweight insulating layer,** wool, down, or heavy-weight fleece jacket, for less-active times.
- **Waterproof and windproof outer layer,** lightweight and breathable. Jackets and pants are recommended.
- **Short sleeved shirt,** cotton okay in summer, but synthetic wicking shirts are ideal.
- **Pants,** synthetic hiking pants, lightweight pile/fleece pants or tights or similar. Jeans are not recommended.
- **Hats,** both a brimmed sun hat and an insulating hat for cool weather.
- **Gloves,** lightweight glove liners and a pair of wool/fleece gloves or mittens.
- **Socks,** light wool or synthetic liner sock with heavier wool or synthetic outer sock. The inner-outer sock combination helps prevent blistering, wicks moisture and reduces friction. Cotton socks do not wick moisture and are not recommended.
Hiking boots, that provide stability, traction, and comfort. Unless you’ve consistently hiked in athletic shoes, bring boots that provide ankle support.

Off-duty shoes, sandals, athletic shoes, or other leisure footwear.

Suggested reading


Park Stores
Our Park Stores feature more than 900 books, maps, and videos to help you plan your visit, along with a wide selection of shirts, hats, and other logo items to remind you of your visit to Yellowstone. Yellowstone Forever supporters receive a 15 percent discount on merchandise online or at any of our 11 locations in and around Yellowstone. Proceeds directly support Yellowstone. Visit: Shop.Yellowstone.org

Supporter Program
Yellowstone Forever Supporters directly fund priority park programs and projects. Supporters also provide scholarships for teachers and help expand programming for underserved youth. Benefits include a subscription to our magazine Yellowstone Quarterly, early registration and discounts for Yellowstone Forever Institute programs, and discounts on retail purchases throughout Yellowstone (exclusions apply). If you are not yet a supporter of Yellowstone Forever, an introductory subscription (one year) to our magazine Yellowstone Quarterly is included with your tuition. For more information, visit: Yellowstone.org/donate

Code of Ethics
The Yellowstone Forever Institute is committed to demonstrating a high standard of appropriate and ethical behavior in Yellowstone. As a participant in a Yellowstone Forever Institute program, we ask you to adhere
to the following Code of Ethics. In addition to the ethics highlighted below, the Yellowstone Forever Institute abides by all National Park Service rules and regulations. We also practice Leave No Trace guidelines for traveling responsibly in the wilderness.

**Observing wildlife:** We will do our best to have as little impact on wildlife as possible. Animals will be observed from a distance, using high-powered spotting scopes to help keep our presence from affecting their behavior. Participants should not expect to get close-up photographs of wildlife. The Yellowstone Forever Institute will adhere to National Park Service regulations by keeping a minimum distance of 25 yards from bison, elk, bighorn sheep, deer, moose, coyotes and nesting birds and 100 yards from bears and wolves. We will not entice wildlife with food, animal calls or any actions that change their behavior.

**Leave what you find:** It is illegal to remove natural or cultural artifacts (plants, animals, bones, rocks, etc.) from Yellowstone. Yellowstone Forever Institute instructors have permission from the National Park Service to manipulate plants, rocks, bones, etc. for educational purposes and will return them to their natural positions and locations.

**General etiquette:** Yellowstone Forever Institute groups will be considerate of other visitors and respect the quality of their experience. Voices and vehicle sounds carry great distances and affect both wildlife and people—remaining silent or very quiet while watching wildlife lets the sounds of Yellowstone (including wolf howls) prevail.

**Roads and vehicles:** Expect wildlife on the road, and drive at or below the posted park speed limits. When stopping to observe wildlife or other park features, the Yellowstone Forever Institute will move vehicles entirely off the road. If there is no safe pullout available, we will drive to the next safe place and walk back to observe the wildlife. We will not stop in the middle of the road, and should a traffic jam develop as a result of our activities, we will cease the activity.

**Properly dispose of waste:** We will pack out all trash, leftover food and litter. Your instructor will discuss techniques for properly disposing of human waste in the field.

**Traveling lightly:** When hiking or walking in Yellowstone, we will use existing trails and boardwalks. We will follow appropriate techniques when walking off-trail. Walking around muddy or wet places in the trail increases erosion and negatively affects the resource; proper equipment is essential to hiking ethically. Participants should come adequately prepared with the equipment listed for their program and should expect to walk through mud, snow or puddles in the trail.

*Thank you for helping us set a good example in Yellowstone!*
Field Seminar Cancellation and Refund Policy
If you cancel within seven calendar days of your registration date, your payment is refundable less a $50 per person per course processing fee. Under most circumstances, if you cancel on the eighth calendar day or after, from the date of registration, 100% of registration payments will be forfeited. If lodging is cancelled after the eighth calendar day from the date of registration, 100% of lodging payments will be forfeited. Applicable taxes will be refunded in the event of program or lodging cancellations. 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 of your payment. We urge you to take out accident, baggage, and trip cancellation insurance through a travel agent or website such as TravelGuard.com. Travel insurance can help protect you against financial loss if you must cancel or interrupt your trip.
FIELD TO POINT DISTANCES

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<td>Mammoth Hot Springs to Norris</td>
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<tr>
<td>Norris to Canyon</td>
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<tr>
<td>Norris to Madison</td>
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<tr>
<td>Madison to West Entrance</td>
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<td>West Thumb to South Entrance</td>
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<tr>
<td>Roosevelt to Lamar Buffalo Ranch</td>
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<tr>
<td>Roosevelt to Mammoth Hot Springs</td>
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ELEVATIONS

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<td>Roosevelt</td>
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LAMAR BUFFALO RANCH INFORMATION

If you need to be reached during your class, the number at the ranch is 307.344.7749.

Directions
Proceed to “Roosevelt” on the map; road signs say Tower Junction, on the northeast side of the Grand Loop Road. Signs at Tower Junction—“Yellowstone Inst 11”—direct you to turn onto the Northeast Entrance Road (opposite the Roosevelt Lodge) heading towards Cooke City. From Mammoth, it’s a left turn; from Canyon, it’s a right turn. The campus is located approximately 11 miles from the intersection, can be seen from the Lamar Valley road sign as you enter the valley and is the first and only group of buildings on that road. If driving from the Northeast Entrance, the campus is approximately 18 miles from that entrance.

What to bring
Shared cabins have three single beds, chairs, propane heaters, and reading lamps. Bring a sleeping bag, pillow, extra blankets if you like, a flashlight for getting around at night and a non-electric alarm clock (cabins do not have outlets). Stoves, lanterns, and candles cannot be used in or around the cabins, and smoking and food are not permitted in the cabins. The heated bathhouse is nearby and has hand soap and paper towels. You need to bring towels and toiletries.

Meals should be kept simple since participants will prepare their own meals in a shared cooking facility. The kitchen has gas stoves, a microwave, toaster, plates, silverware, pots and pans and spices, as well as coffee, tea, sugar and creamer. Please bring only what you will need during your stay as space in the kitchen and refrigerators is limited. There is no cell phone reception in the Lamar Valley and there is no Internet service. Please bring a calling card to use with the common phone.

What not to bring
The historic ranch runs on limited solar power with backup generators. For this reason, please do not bring electrical appliances such as radios, hair dryers and crock pots as these items overload the system and can cause black-outs. Camping and pets (with the exception of service animals) are not allowed.

When you arrive
Check-in is anytime between 4:00 and 8:00 p.m. the day of your arrival. We strongly encourage you to arrive before dark. Come to the bunkhouse (the building with the Yellowstone Forever Institute sign on it). During normal check-in hours, a staff member will greet and orient you to the ranch. If you must arrive after 8:00 p.m., please call us at 307.344.7749 so we know when to expect you. If no one is there to greet you, please find your cabin assignment and the code to the bathhouse on the bulletin board in the kitchen—located at the back of the building—and we’ll be happy to greet you the following morning. Check-out is by 9:00 a.m. the day of your departure.

During your stay
Yellowstone Forever Institute programs and facilities benefit from the hard work and generosity of a team of seasonal volunteer program assistants. You’ll likely meet one or more of our program assistants hosting your program. Our program assistants receive professional training in Wilderness First Aid, emergency response and procedures and bus driving. They help with program logistics, cleaning and maintenance of facilities and anything you need during your time with us. The bunkhouse is open at all times and is the center of activity, housing classrooms, the kitchen, and bathrooms. Make yourself at home in the bunkhouse; meet new people; enjoy a midnight snack; relax with classmates and enjoy your experience. The kitchen is a community area where everyone does their own cooking and cleans up after themselves. In the winter, the first classroom is used as a mudroom where coats and boots can be left by the door. Be sure to bring a pair of slippers or moccasins to wear in the bunkhouse.