



YELLOWSTONE FOREVER

WILLOWS AND WOLVES

Itinerary & Details

FIELD SEMINAR - SUMMER 2021

INSTRUCTOR: Brenna Cassidy, Ph.D. student

INSTRUCTOR BIOGRAPHY: Brenna Cassidy was born and raised in northern Illinois where her curiosity for the natural world grew in the forests and tall grass prairies. She completed a degree in Wildlife Ecology at the University of Wisconsin-Stevens Point and spent summers during her undergraduate degree in northern Wisconsin and Yellowstone National Park. After graduating in 2012, she moved back to Yellowstone and worked on multiple projects studying birds, cougars, and wolves and spent five years seasonally migrating between the Bird Program and Wolf Project. Her PhD research focuses on the survival and reproduction of gray wolves in Yellowstone National Park. While not working, she can be found trying her hand at most art forms and outdoor activities.

ACTIVITY LEVEL: This course is an activity **level 2** and students enrolled in this course are expected to be active participants. Be prepared to hike up to 3 miles per day, comfortably, with elevation gains up to 600 feet. Some off trail hiking possible.

**All field activities will be conducted as a group. If you cannot meet the activity level expectations during your program, you may be restricted from participation in daily outings. We will not alter program itineraries or activities to accommodate participants who cannot meet the expectations of the stated activity level.*

LOCATION: Lamar Buffalo Ranch – Yellowstone National Park, WY

PROGRAM DATES & TIMES: The program begins at 7:00 p.m. on Monday, August 2, 2021, and ends on Wednesday, August 4, 2021, at 4:00 p.m.

LODGING CHECK-IN & CHECK-OUT: Lodging check-in begins at 4:00 p.m. on Monday, August 2, 2021, and lodging check-out is at 9:00 a.m. on Thursday, August 5, 2021.

MEALS: You will need to bring your own food; lunch should be able to travel in the field with you.

For general information about the facilities, preparing for classes, what to expect, cancellation policies, and more, please see the [Lamar Buffalo Ranch - Summer General Information](#) document.

FROM THE INSTRUCTOR

Welcome to Yellowstone Forever's, *Willows and Wolves*, Field Seminar! Many visitors in Yellowstone National Park appreciate the animals and landscape but never get to explore how they can affect one another in surprising ways.

The entire course 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 herbivores like elk and bison. This combination sets up a wonderful ecological laboratory for our discussions of what trophic cascades are and why this idea is so fiercely debated in Yellowstone.

The first evening we will meet at the Lamar Buffalo Ranch in the "Serengeti of America," Lamar Valley. We will use this time to introduce ourselves and the course and lay the groundwork to build upon for the remaining days. Most of our time will be spent in the field investigating which animals change riparian habitats actively and passively, how researchers are measuring the effects of these changes, and how the ecosystem has changed in the Northern Range with fluctuating wolf, elk, and beaver populations. We will also have short classroom discussions to emphasize important concepts. Please come prepared for warm, sunny conditions with a chance of afternoon storms and with an extra layer for chilly (optional) early-morning wildlife watching!

Please don't hesitate to email with questions or concerns, I look forward to sharing the intricacies of Yellowstone with you!

- Brenna Cassidy, Ph.D. Student

PROGRAM ITINERARY

The itinerary is designed to take advantage of the best opportunities in the park, but may be adjusted to adapt to weather conditions, wildlife activity, holidays, and road construction. *The details and timing of the agenda are subject to change.*

- Day 1** Participants are welcome to check into the Lamar Buffalo Ranch starting at 4:00 p.m.
- 7:00 p.m.** The program starts with evening introductions and orientation where participants will be introduced to the Lamar Buffalo Ranch and a general overview. This is also an opportunity to go over any questions you might have about the course and itinerary.
- Day 2** Start the early morning with an optional wildlife-watching opportunity. Following, in the morning, there will be a classroom discussion on the following topics:
- History of wildlife in YNP (1872-present)
 - What are trophic cascades?
 - “How Wolves Change Rivers”: A social media sensation
- In the afternoon there will be a field trip to Crystal Creek where we will discuss:
- Hydrology,
 - Beaver ecology
 - Songbird ecology
- The evening will end with an optional wildlife-watching trip.
- Day 3** Start the early morning with an optional wildlife-watching opportunity. In the afternoon there will be a field trip to Elk Creek where we will discuss:
- Herbivores: changes through time
 - How can ecologists act like beavers?
- We will spend the afternoon discussing the future of Yellowstone ecology.
- There will be an optional evening hike to the Rose Creek wolf acclimation pens. The hike is ~3 miles, 500' of elevation gain, and partially on-trail, partially off-trail on not-so-great terrain.
- Day 4** Check out by 9:00 a.m.

PROGRAM EQUIPMENT

For a full list of recommended equipment for all courses see the [Lamar Buffalo Ranch - Summer General Information](#) document.

There are no items specific to this course.

RECOMMENDED READING

No prior reading is required, but participants might enjoy the following publications, that complement the program. Most publications are available at Yellowstone Forever's online store at shop.yellowstone.org Yellowstone Forever supporters receive a 15% discount and proceeds directly support the park.

- *Decade of the Wolf: Returning the Wild to Yellowstone*. Smith, D.W. and G. Ferguson. 2005. Lyons Press, Guilford, CT.
- *Where the Wild Things Were: Life, Death, and Ecological Wreckage in a Land of Vanishing Predators*. Stolzenburg, W. 2009. Bloomsbury Publishing.

WHOM TO CONTACT

For any questions, concerns, or additional information please contact the following:

- Program itinerary, health forms, payment, and activity questions please contact Yellowstone Forever at institute@yellowstone.org or 406-848-2400
- Road updates, park conditions, and general park information please contact Yellowstone National Park Service at <https://www.nps.gov/yell/contacts.htm>
- If running late for a program, please contact 406-8478-2400