



# Field Education

*Out in Nature, into Science*

## Teton Science Schools - University of Wyoming Winter Ecology Course - January 2-14, 2023

		Skills of the Winter Naturalist			Snowpack Dynamics and Snow Science				Wildlife and Plant Adaptations				
	Mon Jan 2 <sup>nd</sup>	Tues Jan 3 <sup>rd</sup>	Wed Jan 4 <sup>th</sup>	Thur Jan 5 <sup>th</sup>	Fri Jan 6 <sup>th</sup>	Sat Jan 7 <sup>th</sup>	Sun Jan 8 <sup>th</sup>	1/9 Course Break	Tues Jan 10 <sup>th</sup>	Wed. Jan 11 <sup>th</sup>	Thur Jan 12 <sup>th</sup>	Fri Jan 13 <sup>th</sup>	Sat Jan 14 <sup>th</sup>
9:00am	J-Term students arrive 3-5 pm	<b>Classroom:</b> Course Intro, Winter Naturalist Skills, Intro to Winter & Winter Hazards	<b>Classroom:</b> Introduction to Tracking  <b>Field:</b> Tracking, continued field journaling and observations	<b>Morning Wildlife Watching:</b> Naturalist Skills & Animal Behavior at Miller Butte  <b>Field:</b> NMWA  National Elk Refuge- observation of wildlife behavior and journaling (1:00 engagement at visitor center, 10:30 sleigh ride)	<b>Classroom:</b> Course Intro, Snow Crystals & Metamorphism, Snow Science Kits and sampling methods  <b>Field:</b> Snow Science field methods and data collection	<b>Classroom:</b> Deeper dive into the subnivean environment  <b>Field:</b> Brad-Tag Further exploration snowpack through SWE, subnivean and temperature gradients  <b>Classroom:</b> Snow Science Quiz, research planning	<b>Classroom:</b> Review Snow Science Research Proposals  <b>Field:</b> field research on snowpack dynamics  <b>Classroom:</b> Analyze data and prepare research presentation  <b>Classroom:</b> Research Presentations  <b>Course evaluations</b>		<b>Classroom:</b> Course Introduction, Winter Plant Adaptations and climate implications  <b>Field:</b> Plant adaptations and field methods  <b>Classroom:</b> Plant Adaptations quiz, review assignment- research proposal	<b>Classroom:</b> Winter Wildlife Adaptations and climate implications  <b>Field:</b> Wildlife habitats in the winter  <b>Classroom:</b> Animal Adaptations quiz <b>Workshop -</b> Research Proposals and Research Prep	<b>Classroom:</b> Research progress check-in  <b>Field:</b> Field Research & Data collection  <b>Classroom:</b> Data analysis & Research presentation preparation	<b>Classroom:</b> Research Presentation Prep  <b>Classroom:</b> Research Presentations  <b>Celebration &amp; Course Evaluations</b>	Hands to Work  <b>Departure</b>
10:00am													
11:00am													
12:00pm													
1:00pm													
2:00pm													
3:00pm													
4:00pm													
5:00pm													
EP	Orientation Wildlife training Intro to KC	Art and Ecology EP	Optional EP- Nature film: Winter in Yellowstone <a href="https://www.youtube.com/watch?v=VbdmYXoyLZQ">https://www.youtube.com/watch?v=VbdmYXoyLZQ</a>	Creative presentation of natural history observations and wildlife behavior <b>Course evaluations</b>	Optional EP - Intro to Avalanche Dynamics	Office Hours- Snow Science and Research Prep	Optional EP - Ski/snow movie		Intro to Research Design (Spur Ridge)	Office Hours - Research Proposals support	Office Hours - Research project support	Program Closing (Spur Ridge)- Winter Snowshoe	
Required Equipment		Winter clothes, snowshoes or XC skis, journal, pencil. Optional- camera, binocs			Winter clothes, snowshoes or XC skis , journal, pencil. Optional- camera, binocs				Winter clothes, snowshoes or XC skis , journal, pencil. Optional- camera, binocs				