

Equipment List

Brooks Range Backpacking & River

Welcome to NOLS! We look forward to having you with us this summer in Alaska.

This list will help you decide what to bring with you to Alaska. The NOLS Alaska outfitting department can provide you with all the equipment on this list other than those items designated “must bring” or “bring if you want.” **We recommend that you only bring gear that you already own. The actual gear needed for your course may vary slightly, depending on instructor judgment, course location, season and recent weather.**

Here are three options to help guide your gear purchasing process:

- 1) Purchase or rent from us. We have a full retail store with experienced staff that can outfit you completely, tailoring your options according to route, weather and time of year. You will get only the equipment you need with no extra purchases.
- 2) Already have items? Bring them along! Your instructors will inspect your gear and determine if it is suitable for your course. If an item is not approved, you can leave it with your luggage in our storage lockers.
- 3) Want to shop before your course begins? Visit our list of preferred retailers at <http://www.nols.edu/about/partnerships/retailers/>

We recommend renting gear from NOLS rather than purchasing expensive gear specifically for your course. While you do not have to rent gear from us, there are several reasons why we suggest it. Our rental gear is high quality, chosen and maintained specifically for the use it receives on our courses. The rental prices are reasonable given the wear the equipment receives. Also, if you plan to eventually purchase gear, you will have a better understanding of your future needs and preferences after the course. Finally, even if your equipment is appropriate, it will receive lots of hard use. Students are often surprised at the amount of wear put on their personal gear during a course. If you still wish to buy gear before your course, please read our equipment descriptions carefully and contact us if you have any questions. NOLS Alaska strives to find appropriate lightweight gear for our courses. You should strongly consider weight when purchasing gear for your course. Every ounce counts toward the total weight of your pack.

This equipment list is designed to give you information on the items you’ll need for your expedition, as well as the functions your gear will serve. Please see also the boot fitting instructions in your enrollment packet.

In addition to your course tuition, you have been billed an equipment deposit, which will be applied to the charges you incur for rental, cleaning, purchase of personal items and any loss or damage to our gear. Total charges will vary depending upon the amount of equipment that you rent or purchase from us. Please note that rental prices in the table below cover the entire course. Please use the worksheet provided on the final page of this list to estimate your equipment charges. Please note that **ALL PRICES ARE SUBJECT TO CHANGE.**

If you have any questions, or if you would like more information regarding any of the items in the equipment list, please contact our staff in Palmer at 907-745-4047; or email alaska@nols.edu; or visit our web site at <http://www.nols.edu>

The availability of each item is indicated as follows:

Rental –the item can be **rented** from NOLS.

Purchase Only – the item can be **purchased** from NOLS.

Must Bring – the item is **not available** from NOLS, but is required.

Bring If You Want – the item is **not available** from NOLS and is optional for your course.



Upper Body Clothing

You need at least **three insulating layers**, a wind-proof layer, a rain layer and a t-shirt. Make sure your layers fit comfortably over each other. If you get cold easily, we suggest that you take four insulating layers, or three layers plus a vest.

Equipment	Rental Price	Purchase Price	Quantity	Comments	Check List
Base Layer (Long Underwear Top)	Purchase Only	\$25-\$75	1	Mid- or expedition-weight synthetic or performance wool is best. Mid-weight only constitutes half a layer while expedition-weight counts as a whole layer. (Examples: Mountain Hardwear Extend, Patagonia Capilene, or IO-Bio wool)	
Fleece or Insulated Vest	Bring If You Want	Bring If You Want	1	You may want a vest to supplement the upper layers. Insulation should be some type of polyester such as Light Loft, Polarguard 3D, and Thinsulate.	
Fleece Jacket	Purchase Only	\$50	1	Mid or heavy weight fleece jacket, such as the Mountain Hardwear Microchill, that fits over your other layers. Wind stopper or other tech fleeces are fine, but not necessary.	
Insulated Jacket	\$25	\$110-\$200	1	An insulated jacket, such as the Mountain Hardwear Compressor or the Patagonia Puffball, is a good third layer. This jacket should fit over your base layers.	
Synthetic T-shirt	Purchase Only	\$35-\$45	1	To wear on warm days. We strongly recommend lightweight polyester, polypro, or Coolmax top because it will dry much more quickly than a cotton T-shirt. We have these for sale with the NOLS AK logo.	
Wind Shirt	\$18	\$50-\$150	1	Nylon wind shell, roomy enough to fit comfortably over your base layers and fleece or insulated jacket. Gore-Tex is acceptable but this layer does not have to be waterproof. Your rain layer can double as a wind shirt.	
Rain Parka	\$25	\$99- \$200	1	Your rain parka should be roomy enough to fit comfortably over all upper-body layers. Coated nylon or waterproof/breathable parkas are acceptable. Ponchos are not acceptable.	
Skanoak or Paddle Jacket with Hood	\$25	\$175	1	For paddling. We rent a waterproof/breathable pullover with hood. If you bring your own it must be waterproof and have a good hood. Gore-Tex or other waterproof/breathable fabrics are acceptable.	
Personal Floatation Device	\$18	\$50-\$120	1	A Class III life jacket designed for kayaking. We recommend renting ours.	



Lower Body Clothing

You will need **two lower-body insulating layers** that should fit comfortably over each other and underneath your wind or rain pants. These should be a medium weight base layer (long underwear) bottoms plus either expedition weight bottoms, or fleece pants.

Equipment	Rental Price	Purchase Price	Quantity	Comments	Check List
Base Layer (Long Underwear) Bottoms	Purchase Only	\$25- \$50	1 pair	These must be mid-weight polyester or performance wool. (Examples: Mountain Hardwear Extend, Patagonia Capilene, and IO-Bio Wool). Cotton and Duofold are unacceptable.	
Fleece Pants	Purchase Only	\$50	1 pair	We sell Mountain Hardwear Microchill Pants. Expedition weight long underwear bottoms are also acceptable.	
Rain Pants	\$20	\$50-\$100	1 pair	We rent Gore-Tex Pro Shell rain pants.	
Nylon Pants	\$18	\$55-\$100	1 pair	Nylon shell pants are available for rent. Nylon hiking pants are recommended for protection from bugs and dense vegetation	
Nylon Shorts	Bring If You Want	Bring If You Want	1 pair	Light athletic shorts can be used for hiking or on the water	

Miscellaneous Clothing

Equipment	Rental Price	Purchase Price	Quantity	Comments	Check List
Sun Hat or Baseball Cap	Purchase Only	\$18-\$25	1	Should be wide-brimmed to protect from sun.	
Fleece or Wool Hat	\$6	\$30	1	Any fleece hat that will fully cover your ears. A wool ski hat is fine.	
Glove Liners	Purchase Only	\$5-\$12	1 Pair	Lightweight polypropylene gloves may be layered with heavier gloves for warmth or worn alone for sun protection.	
Fleece or Wool Gloves	Purchase Only	\$15-\$25	1 pair	Fleece and Ragg wool are adequate. Heavy polypropylene gloves are also acceptable.	
Neoprene Poagies/Paddling Gloves	\$8	\$20-\$35	1 pair	1 pair of either. We rent neoprene poagies.	
Underwear/Bra	Purchase Only	\$15-\$24	2-3 Pairs of Underwear; 1 Bra	Undergarments made from supplex/lycra or polypropylene wick moisture away from your skin and are highly recommended.	



Footwear					
Equipment	Rental Price	Purchase Price	Quantity	Comments	Check List
Hiking Boots	Must Bring	Must Bring	1 pair	Whether you plan to buy boots before your course or you already own a pair, please read the Boot Selection Guide at the end of this list.	
Rubber Boots	\$24	\$45 - \$100	1 pair	We issue rubber knee boots. This will be your primary footwear during the river section. Since the boots take a real beating from the sharp rocks and barnacles along the beaches, we recommend you rent this item from us.	
Hiking Socks	Purchase Only	\$9- \$15	3-4 pairs	Must be 75 to 100% wool, merino wool, heavy ragg type, or thick polypropylene. No wool/cotton blends.	
Neoprene Socks	Purchase Only	\$20	1 pair	Neoprene socks may be worn with camp shoes or as hiking socks.	
Camp Shoes	Purchase Only	\$35	1 pair	You'll need some lightweight, waterproof footwear around camp. We carry Holeys Coastal Boot. Crocs with no vent holes, like the Specialist, are a good option.	
Gaiters	Purchase Only	\$40 - \$60	1 pair	We sell Outdoor Research Verglas gaiters. Any gaiters with a double closure (both zippers and snaps) or 2" Velcro are also suitable. Black Diamond is another good brand.	

Sleeping Gear					
Equipment	Rental Price	Purchase Price	Quantity	Comments	Check List
Sleeping Bag	\$40	\$180	1	We stock only synthetic-filled sleeping bags (Polarguard 3D, Light Loft, Polarguard HV) with a temperature rating of 20 degrees F or colder. Due to Alaska's extremely wet environment, down and feather bags are not recommended.	
Sleeping Pad	\$5	\$45-\$100	1	Provides padding and insulation between sleeping bag and ground. We rent closed-cell foam pads, however we recommend and sell self-inflating sleeping pads. Therma-A-Rest is a great brand.	
Sleeping Bag Compression Stuff Sack	\$8	\$28-\$35	1	For easier packing of your sleeping bag into your backpack. On this course you'll use a compression stuff sack lined with a plastic trash compactor bag. Good brands are Outdoor Research and Granite Gear.	

Packs & Bags

Equipment	Rental Price	Purchase Price	Quantity	Comments	Check List
Internal Frame Pack	\$80	\$300-500	1	Internal frame backpack with a volume of 5000-6000 cubic inches (80-100 Liters). If you bring a pack, your instructor will determine if it is suitable for your course. We rent Deuter and Osprey packs. Other good brands are Arc'teryx, Lowe and Gregory.	
Small Stuff Sacks	\$1-\$4	\$3-\$10	1-2	Used to organize items in your pack.	
Waterproof Bag Liners	Purchase Only	\$0.50	2-3	Durable, sturdy, plastic trash compactor bags. These can be found in most grocery stores.	
Lightweight Zip Duffle or Large Stuff Sack	\$5	\$15-\$25	1 oversize & 1 small	Nylon duffle bags: 1 large (~12"x24") and 1 small (~9"x18"). Used to keep clothing and personal gear organized.	

Miscellaneous Items

Equipment	Rental Price	Purchase Price	Quantity	Comments	Check List
Bandana	Purchase Only	\$2	1-2	For multiple uses.	
Lighter	Purchase Only	\$1	1-2	Used to light stoves. Do not bring a zippo.	
Eating Gear	Purchase Only	\$5-\$10	1 Bowl 1 Spoon	Tupperware type bowl, 1-2 pints, with a lid. Lexan/plastic spoon.	
Eyeglass Retainer	Purchase Only	\$5	1	Good brands are Chums and Croakies.	
Insect Repellent	Purchase Only	\$6	1	A small bottle.	
Lip Balm	Purchase Only	\$2.50	1	Stick or cream with sun protection.	
Mosquito Headnet	\$4	\$12	1	You can rent this if bugs will be a problem on your course.	
Notebook and Pen/Pencil	Purchase Only	\$3-\$10	1 of each	A small spiral notebook is fine. Avoid hardcover. We sell a durable notebook with waterproof pages.	
Prescription Glasses and Contact Lenses	Must Bring	Must Bring	NA	If you wear prescription glasses or lenses, you should bring a spare set.	
Sport Sunscreen	Purchase Only	\$5-\$7	1 tube or bottle	A tube or bottle of 2-3 oz. should be plenty. A sun protection factor of 30 or greater is necessary. A physical sun block such as zinc oxide is strongly recommended for people who burn easily.	
Sunglasses	Purchase Only	\$50-\$60	1 pair	Durable with 100% UV protection. A hard case is recommended. If you wear prescription lenses, bring your own prescription sunglasses or look for a quality pair of clip-on shades. We sell Optic Nerve. Other good brands are Julbo, Native.	



Miscellaneous Items (Continued)					
Equipment	Rental Price	Purchase Price	Quantity	Comments	Check List
Toilet Articles	Must Bring	Must Bring	NA	Toothbrush, toothpaste, comb/ brush, moisturizer, prescription meds, tampons. Sample sizes of 2oz. are preferable. No deodorant or excessive items.	
Watch	Must Bring	Must Bring	1	Please bring a waterproof watch with an alarm even if you do not normally wear one.	
Water Bottle or Water Bladder	Purchase Only	\$8-\$20	1-2	Wide-mouth quart- or liter-size. A lightweight bladder system also works well.	

Optional Items					
Equipment	Rental Price	Purchase Price	Quantity	Comments	Check List
Camera	Bring If You Want	Bring If You Want	1	Digital cameras are great! See camera notes below for some things to consider.	
Book	Bring If You Want	Bring If You Want	1	A small book for pleasure reading.	
Vitamins	Bring if You Want	Bring if You Want	NA	Some folks prefer to supplement their diet with a multi-vitamin.	
Knife	Bring if You Want	Bring if You Want	1	A small pocketknife or multi-tool.	
Headlamp or Flashlight	Bring if You Want	Bring if You Want	1	Good idea for August courses, unnecessary for June or July. Should be lightweight.	
Trekking Poles	\$5	\$50-\$100	1-2	Single or double telescoping poles are best. We sell adjustable trekking poles and rent heavy-duty ski poles. Walking sticks or lightweight track skiing poles are not acceptable.	
Crazy Creek or similar camp chair	Purchase Only	\$20-\$50	1	Past students recommend these for meetings and classes.	
Fly Fishing Gear	Bring if You Want	Bring if You Want	1 set	If you want to bring your own gear, you're welcome to. Note, however, that fishing opportunities are very limited and route dependent.	
Compass	Bring if You Want	Bring if You Want	1	We issue one compass per tent group. However, if students bring their own more map reading practice is possible for everyone.	
Neck warmer	\$6	\$8-\$15	1	Fleece neck warmers are warm and very comfortable.	
Bug Shirt	Bring If You Want	Bring If You Want	1	This is a shirt made of mosquito netting or of nylon with mosquito netting covering the face. Previous instructors and students have recommended them.	

Shared Group Equipment—NOLS will supply

Expedition members share both the use of and the responsibility for the group gear that NOLS issues. NOLS charges only for group equipment lost or damaged. Keep in mind that NOLS evaluates gear from a number of perspectives beyond those that an individual user might consider. Performance, durability and simplicity are all contributing factors towards our gear selection.

Tents	Compass	Trowel or Shovel
Stoves (MSR)	Maps	Fishing Gear
Fuel Bottles & Fuel	GPS	Repair Kits
Cooking Gear/Spice Kits	Reference Books	Soap and Hand Sanitizer

First Aid: Our instructors carry adequate first aid kits. There is no need to bring you own.

Camera Notes

Here are a few features to consider if buying a digital camera for your trip:

1. **Durability.** The fewer movable parts the better. Waterproof, or at least water resistant, is important.
2. **Size.** Small and light is great, but make sure the buttons are easy to push with gloves or cold fingers,
3. **Power.** Lithium AA batteries are great: they last about 5 times longer than regular AA batteries. If your camera uses rechargeable Lithium Ion batteries, make sure to bring 1-2 fully charged spare batteries. Save power by minimizing use of the LCD display.
4. **Memory cards** have really come down in price, so bring plenty. Just remember it is a lot of work sorting through lots of bad pictures. A trick of professional photographers is to only show their best pictures, and throw away the bad.
5. **Optical zoom** gives better quality than digital zoom.
6. **Megapixels.** Quality of the pixels and optics make a big difference. 4-6 megapixel is plenty for most purposes.

Equipment Charges Worksheet

An equipment deposit is required of each student to cover the average cost of equipment rental and cleaning. You will be charged additionally for the replacement of any lost or damaged group equipment. Your actual expense will vary according to how much gear you rent and purchase from NOLS. Additional purchases of new and used gear may raise your total outfitting expense above your rental deposit. Rental and purchase charges will be totaled at the end of your course. Those of you using your own equipment may be eligible for a refund, which will be sent to you by mail.

TO ESTIMATE YOUR EQUIPMENT FEES FOR YOUR NOLS COURSE

1. Total equipment rental charges from NOLS: _____\$
(Rental charges are for the entire course)
2. Total equipment purchases from NOLS: + _____\$
(Estimated from checklist)
3. Add lines 1 and 2: _____\$
(This is your estimated total with rentals and purchases)
4. Equipment deposit you have on credit: - _____\$
(Depends on your course type)
5. Subtract line 4 from line 3: _____\$
(This is your final estimated balance)



Boot Selection Guide

NOLS has been outfitting people with boots for many years and our priorities have remained the same: We want you to have boots that provide adequate protection for your feet, that are durable enough to withstand a month of rugged wear, and that provide reasonable comfort. Many boots available on the market do not meet these criteria, and a boot that is good for your personal use may not be a good boot for your NOLS course.

Medium-weight, off-trail backpacking or light mountaineering boots work best. They provide good support for off-trail hiking with heavy packs and usually require less break-in time than heavy mountaineering boots. Here are some features to look for:

- Constructed from full grain one-piece leather upper or a combination of nylon or Gore-Tex and leather.
- A sole that provides good traction like Vibram or other lugged sole.
- ½ to ¾ length shank or full poly mid sole stiffener within the sole to provide foot support and protection.
- Ankle support. Trail runner sneakers and below-the-ankle hiking boots are not acceptable.
- A comfortable fit with your preferred hiking socks. Boots that are too small are a common cause of blisters.

Please see the Boot Fitting Guide in your enrollment packet for instructions on how to properly fit boots.

The following list of acceptable boots is not exhaustive. It is to be used as a guide to the general type of boots acceptable for your course. It is fine to substitute a similar boot for one of the types listed here.

Asolo: Power Matic Series, TPS Series, Power Light Series, Matrix Series, Energy Series

Lowa: Tahoe GTX, Tibet GTX, Banff, Pingora GTX

Garmont: Dakota, Synchro Plus GTX, Cypress GTX, FC Eco 4.0 GTX

La Sportiva: Thunder II GTX, Cascade GTX

Montrail: Feather Peak GTX

Scarpa: Mustang GTX, Barun GTX, Nepal Pro GTX, SL M3, Escape GTX

Vasque: Wasatch GTX, Zephyr II GTX, Summit GTX, Sundowner GTX series, Clarion GTX, Breeze GTX

Oboz: Wind River

***Please note that boot manufacturers often rename their product line. Visit the manufacturer's website or contact us if you have questions.**

