NCOAE Equipment List Patagonia Ski / Snowboard – 24 Day



When it comes to outdoor equipment, there's no need to go all out and buy every piece of fancy gear just to cram in into your new, state of the art backpack. You will be carrying everything you bring with you on your expedition – PLUS some of the food and some of the group gear. Whether you purchase or rent, foremost in your mind should be weight. Each item adds up to what will eventually be strapped to your back. So do the research, read the labels and consider what you can do without. If you don't need something, don't bring it!

The National Center for Outdoor & Adventure Education (NCOAE) equipment list of required and optional gear will help you decide what to bring and what not to bring on your NCOAE adventure. You can save money too by renting some of the equipment for your course from NCOAE.

- If you have questions about gear you already own, send us an e-mail or call and we will assess its suitability for the environment where it will be used. We might suggest that you return your grandfather's heavy canvas war-era tent to the garage and rent or purchase a lightweight version instead. Any gear you bring must meet NCOAE's standards.
- If you prefer to purchase all of your gear that's fine too, but if you're not sure you'll ever use that \$400 internal frame backpack or sleeping bag again, we may have one available to rent! Of course you don't have to rent equipment from us, but our gear is tailor-made to fit our excursions.
- All program participants will pay a \$250 deposit on gear to cover possible loss or damage. If all gear is
 returned in the condition in which you received it, the full deposit will be applied to any rental charges,
 and the remainder returned to you so inspect the gear closely before and after renting. Damaged or
 lost group gear expenses are divided among all participants. Damaged or lost rental gear is charged to
 the renter.
- Remember to bring one or two sets of "in-town clothes" for your return flight after the trip!
- Items listed below with an asterisk (*) may be available from NCOAE for rent.

Comments, questions, concerns... Call NCOAE Headquarters Monday through Friday between the hours of 8:30 am EST at (910) 399-8090.





Packs and Bags							
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST			
Internal Frame Backpack*	Must Bring, or Rent \$65.00	1	Internal frame backpack, with a volume of 90 to 100 liters is ideal (5,500-6,100 cubic inches).				
Plastic trash compactor bag	Must Bring	1	3mm or thicker, durable, sturdy. Found in grocery stores.				
Footwear							
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST			
Sturdy Leather Hiking Boots	Must Bring	1 pair	Sized to fit with 1-2 pairs of wool socks.				
Hiking Socks	Must Bring	3-4 pairs	Must be 75%–100% wool, merino wool, heavy ragg type, or thick polypropylene. No cotton or wool-cotton blends.				
Camp Shoes / Boots	Must Bring	1 pair	The ground around camp may be wet or soggy. Examples: Holeys Coastal Boot, Sorel Caribou Boot – NO VENT HOLES.				
Insulated Booties	Optional	1 pair	Synthetic-fill booties to wear around camp or while sleeping.				
Over-boots	Optional	1 pair	Synthetic-fill, to wear over booties as a camp shoe.				
Ski or Snowboard Boots	Must Bring	1 pair	Your boots will need to fit properly over two pairs of socks with an insole.				
Gaiter	Optional	1 pair	Full gaiters provide good leg protection while bushwhacking. Low gaiters are also acceptable.				
Upper Body Clothing							
			weight insulation layer, & puffy jacket), a wind-proof layer, a reach other. If you get cold easily, we suggest that you take four				
layers, or three layers plus a v				modium			
				CHECK LIST			
layers, or three layers plus a v	vest.						
layers, or three layers plus a v EQUIPMENT Base Layer - Long	rest. REQUIREMENT	QUANTITY	COMMENTS Light or expedition-weight synthetic or performance wool is				
layers, or three layers plus a v EQUIPMENT Base Layer - Long Underwear Top	REQUIREMENT Must Bring	QUANTITY 1-2	COMMENTS Light or expedition-weight synthetic or performance wool is best. (Examples: Patagonia Capilene, Icebreaker wool) Light to mid-weight fleece jacket that fits over your base				
layers, or three layers plus a v EQUIPMENT Base Layer - Long Underwear Top Fleece Jacket or Shirt	REQUIREMENT Must Bring Must Bring	QUANTITY 1-2 1	COMMENTS Light or expedition-weight synthetic or performance wool is best. (Examples: Patagonia Capilene, Icebreaker wool) Light to mid-weight fleece jacket that fits over your base layers. (Example: Mountain Hardwear Microchill) (Examples: Patagonia R1 Hoodie, Mountain Hardwear				
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layers, or three layers plus a v EQUIPMENT Base Layer - Long Underwear Top Fleece Jacket or Shirt Expedition Weight Pullover Fleece or Synthetic-fill Insulated Vest	Must Bring Must Bring Must Bring Optional	QUANTITY 1-2 1 1	COMMENTS Light or expedition-weight synthetic or performance wool is best. (Examples: Patagonia Capilene, Icebreaker wool) Light to mid-weight fleece jacket that fits over your base layers. (Example: Mountain Hardwear Microchill) (Examples: Patagonia R1 Hoodie, Mountain Hardwear Expedition-Weight zip-tee) NO DOWN FILL. A vest can supplement other upper layers, which is good for folks who get cold easily. (Example: Patagonia Synchilla Vest)				
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Lower Body Clothing You need two to three lower-body insulating layers that fit comfortably over each other and underneath your wind or rain pants. Example combination: Mid-weight long underwear + fleece pants. REQUIREMENT QUANTITY COMMENTS **EQUIPMENT CHECK LIST** Base Layer - Long Mid- or expedition-weight synthetic or performance wool is Must Bring 2-3 pairs П **Underwear Bottoms** best. (Examples: Patagonia Capilene, Icebreaker wool). Insulated Pants or Fleece or synthetic-filled pants are needed when the П **Expedition-Weight Fleece** weather is especially cold. (Examples: Sherpa Jaaro Must Bring 1 pair Microfleece Pants, Mountain Hardwear Compressor Pants) **Pants** Must be Waterproof. Gore-Tex recommended. These need П Ski/Snowboard Pants Must Bring 1 pair to fit comfortably over your hiking pants. Nylon or other synthetic hiking pants are recommended for П **Hiking Pants** Must Bring 2 pair protection from bugs and dense vegetation. Nylon wind shell, roomy enough to fit comfortably over your Wind Pants base layers. Excellent protection in dense bushes and from **Must Bring** 1 pair bugs, or for use as "cooking pants." Nice for warm days. Pockets are nice to have. Nylon Shorts with a Liner Optional 1 pair **Miscellaneous Clothing EQUIPMENT** REQUIREMENT QUANTITY COMMENTS **CHECK LIST** Sun Hat or Baseball Cap Must Bring Should be wide-brimmed to protect from sun. Winter Hat 2 Fleece or wool hat that will fully cover your ears. Must Bring Buff, Balaclava, or Neck Used to keep your head, neck, and ears warm – can replace Must Bring 1 П Gaiter a scarf or light cap Bandana For multiple uses. Must bring Liner Gloves **Must Bring** 1 pair Thin wool or synthetic liner gloves. П Insulated Ski Gloves or П Must Bring 1 pair Durable, water resistant, insulated ski gloves or mittens. Mittens Wool or synthetic gloves or mittens for cold mornings or Insulated Gloves or Mittens Must Bring 1 pair evenings around camp. Glove or Mitten Shells Must Bring 1 pair Waterproof shells that fit over your gloves or mittens. Comfortable, casual set of clothes for in town & for your **In Town Clothes Must Bring** 1 pair flight home at the end of your course. **Sleeping Gear** REQUIREMENT QUANTITY COMMENTS **EQUIPMENT CHECK LIST** Temperature rating of 0 degrees F or colder. Synthetic, not Mummy Style Sleeping Bag Must Bring, or down. Compression stuff sack recommended. Rent - \$35.00 w/Stuff Sack* Closed-cell foam or self-inflating pads. (Example: Therm-a-Must Bring, or Sleeping Pad* rest Ridgerest or Z Lite). Rent - \$15.00 1 Contains your sleeping pad for packing. Sleeping Pad Stuff Sack Optional





Ski/Snowboard Equipment								
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST				
Ski Poles	Must Bring	1 set	Sturdy pair of adjustable poles, with medium to large baskets.					
Alpine Touring or Telemark Skis or Splitboards	Must Bring	1 set	Skis (Examples: Atomic, G3 and Black Diamond skis with Dynafit and G3 bindings). Splitboards (Examples: Venture, Never Summer and G3 splitboards with Sparks bindings). Be sure to bring your own binding repair kit.					
Climbing Skins	Must Bring	1 set	Skins should be as wide as the skis – recommend synthetic hair, adhesive climbing skins.					
Ski Crampons*	Must Bring, or Rent - \$15.00	1 set	Must fit your skis properly.					
Crampons*	Must Bring, or Rent \$15.00	1 set	Must fit your ski/snowboard boots properly. (Examples: Petzl Irvis or Petzel Leopard).					
Ski Goggles	Must Bring	1	For low visibility & stormy days.					
Ski Helmet	Must Bring	1						
Miscellaneous Gear								
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST				
Required or Prescription Medication (if applicable)	Must Bring	1 Set	Bring enough to last the entire trip. All medications must be in the original bottle with instructions for administration, and your name on it. Please pack all prescribed medicine.					
Toiletries (2 – 3 oz travel sized only)	Must Bring	1 Set	Toothbrush, Toothpaste, Lip Balm w/Sunscreen (SPF 15 or higher), Moisturizer, Feminine Hygiene products. (Shampoo, Conditioner, & Soap for pre & post course only).					
Watch w/ Alarm	Must Bring	1	Must be waterproof (Example: Timex Expedition)					
Headlamp	Must Bring	1	Durable and lightweight.					
Extra batteries	Must Bring	1 set	Bring 1 spare set for headlamp					
Pocket Knife	Optional	1	One small pocket knife is sufficient.					
Water bottle or bladder – 32 oz or 48 oz	Must Bring	2	Heavy, durable plastic. Wide-mouth and must be at least 32 oz. A lightweight bladder system (in addition to 1 liter bottles) also works well. Examples: Platypus SoftBottle and Nalgene.					
Hydration System	Optional	1	CamelBak or Platypus are popular.					
Insulated mug	Must Bring	1	Durable plastic for hot drinks.					
Thermos	Optional	1	Recommended for you to have hot tea, cocoa, or soup throughout the day. No glass lined thermoses.					
Plastic Bowl	Must Bring	1	Tupperware or Nalgene style, 16-30 oz capacity, with lid.					
Spoon or Spork	Must Bring	1	Plastic or metal utensils					





Towel	Optional	1	A pack towel that is compressible, lightweight, quick-drying, made of a microfiber or microfiber blend. For use after sweating or after heavy rain/snow.						
Insect Repellent & Sunscreen	Must Bring	1	Small, travel sized bottles – NO AEROSOLS. Suncreen must be SPF 30 or greater.						
Glacier Sunglasses, Wrap-around style	Must Bring	1	Durable with 100% UV protection. If you wear prescription lenses, bring your own prescription sunglasses. You will want to block the sun from the sides. (Examples: Julbo, Native).						
Prescription Glasses and Contact Lenses	Must Bring	Multiple	If you wear prescription glasses or contact lenses, bring a spare set. Even if you wear contacts daily, plan to carry a pair of glasses.						
Eyeglasses Strap	Optional	1	Good brands are Chums and Croakies.						
Trekking Poles	Optional	1-2							
Sit pad or Camp chair	Optional	1	Portable seat for increased insulation when sitting in snow. Crazy Creek, sleeping pad adaptor, or make from cut foam.						
English to Spanish / Spanish to English Pocket Dictionary & Phrase Book	Optional	1	Water resistant guide can help ease awkward situations until your fluency improves.						
Optional Items									
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS		CHECK LIST				
Camera	Optional	1	Small, waterproof & shockproof camera. Bring extra battery and memory card. You are not permitted to bring cell phones or tables into the backcountry, even for camera use.						
Binoculars	Optional	1	Small, travel sized.						
Book	Optional	1	A small, lightweight book for reading.						
Small Card Game or Cards	Optional	1	For down time.						
Small Stuff Sacks or Gallon Zipplocs	Optional	2-3	Used to organize items in your pack. Lightweight dry sacks are convenient.						
Personal Coffee	Optional	Multiple	Most coffee sold in stores is instant.						
Notebook w/ Pen or Pencil	Optional	1	A notebook for journaling or drawing.						
Camp Pillow	Optional	1	Should be small, made out of a synthetic material and compressible.						
NCOAE Will Supply									
Students share both the use	of and the respo	nsibility for	the group gear that NCOAE dis	spenses.					
Tents		Group Tarp		Toilet Paper & Trowel					
Stoves, Fuel Bottles & Fuel		Maps & Reference Books/Materials Compass & Whistle							
Cooking Gear		Course Food & Spice Kit Water Treatment							
Snow Shovel		Repair Kit Group Sunscreen & Bug Spray			·				
First Aid Kit		Bear Canisters Soap, Hand Sanitizer & Hygier		ne Wipes					
Avalanche Probe		Avalanche Beacon Avalanche Airbag							

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Sturdy Hiking Boot - Selection Guide

NCOAE has been outfitting people with boots for many years, and our priorities have remained the same: we want you to have footwear that provides adequate protection for your feet and ankles, that is durable enough to withstand weeks of wet, rugged wear and that provides reasonable comfort. Many boots available on the market do not meet these criteria.

When considering footwear, remember that your course will travel mostly off trail, you may be walking through cold streams, and your feet will get wet. You could be in rain or snow for days. You will cross creeks. The type of footwear that you need will depend on how heavy your pack is and how strong your ankles and feet are.

Here are some features to look for in and hiking boots:

- A sole that provides good traction like Vibram or other lugged sole.
- Some form of nylon shank to provide foot support and protection.
- Ankle support
- Durable uppers that will withstand hiking among sharp boulders and dense vegetation.
- A Gore-Tex liner is fine, but unnecessary. Your foot will get wet when the river comes in over the top of your boot. A Gore-Tex liner will slow drying time once the boot is wet.
- A comfortable fit with your preferred hiking socks. Boots that are too small are a common cause of blisters.

The following list of acceptable footwear is not exhaustive. It is to be used as a guide to the general type of footwear acceptable for your course. It is fine to substitute a similar boot or shoe for one of the types listed here. If you are considering a lighter boot or shoe, you will have to be committed to trimming your pack weight to below 40 lbs. which takes prior commitment to weighing each ounce of your personal gear. Expect to be carrying around 30-45 percent of your own body weight on your back. You will be carrying almost 25 pounds of group gear, so factor that in to your total pack weight.

Sturdy hiking boots:

Asolo: Elbrus, Lagazuoi, Shiraz, TPS Series, Equalon

Lowa: Cevedale Pro GTX, Tibet Pro GTX

Garmont: Rambler GTX, Dakota, Tower Trek GTX

La Sportiva: Garnet GTX, Omega GTX

Scarpa: Kinesis GTX, Zodiac GTX, Bhutan GTX, Terra GTX

Vasque: Summit GTX, Saga GTX,

Oboz: Wind River