Alaska – 14-day Backpacking



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.

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. Remember you will be carrying everything you bring with you on your trip – PLUS some of the food and some of the group gear. 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!

You can save money too using the gear provided by NCOAE and by purchasing many items from the athletic clothing, sporting goods, and camping sections at your local discount store, such as Target. Athletic clothing is usually synthetic and works well for camping.

- 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 cotton sleeping bag to the garage and rent or purchase a lightweight, synthetic 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 expeditions
- Damaged or lost group gear expenses are divided among all participants. Damaged or lost rental gear is charged to the renter.
- Please do not pack jeans or jean shorts. If you have a choice, please pack non-cotton clothing. Mesh or synthetic clothing dries quickest and therefore is the best option while backpacking.
- Remember to bring one or two sets of "in-town clothes" for your return flight / drive after the trip!
- Items listed below with an asterisk (*) may be available, in limited quantities, for student rental, on an as needed basis.

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

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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 75 to 85 liters is ideal (4,600-5,200 cubic inches).	
Day Pack	Must Bring	1	Small backpack for use on day hikes or trips into town.	
Footwear				
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST
Mid-Weight Hiking Boots	Must Bring	1 pair	Must be WATERPROOF. Recommend sturdy, leather boots. Please read the Boot Selection Guide at the end of this list.	
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	Must Bring	1 pair	Closed-toed shoes or sandals with a heel strap are a must for wearing in camp.	
Water Shoes	Optional	1 pair	Must be have heel strap. For protection from rocks, sharp objects when crossing streams. (Example: Keens, Chacos)	
Gaiters	Optional	1 pair	Full gaiters provide good leg protection while bushwhacking. Low gaiters are also acceptable.	
Upper Body Clothing				
		-	ght insulation layer, & puffy jacket), a wind-proof layer, a rain lay f you get cold easily, we suggest that you take four insulating lay	
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST
Base Layer - Long Underwear Top	Must Bring	1-2	Light or expedition-weight synthetic or performance wool is best. (Examples: Patagonia Capilene, Icebreaker wool)	
Fleece Jacket or Shirt	Must Bring	1	Light to mid-weight fleece jacket that fits over your base layers. (Example: Mountain Hardwear Microchill)	
Fleece or Synthetic-fill Insulated Vest	Optional	1	A vest can supplement other upper layers, which is good for folks who get cold easily. (Example: Patagonia Synchilla Vest)	
T-Shirt	Must Bring	2	Lightweight synthetic or wool shirts recommended.	
Insulated Jacket			A warm, lightweight, synthetic-fill "puffy" jacket that fits over	
	Must Bring	1	your base layers & under your ski jacket. (Example: Patagonia Nano Puff Hoody)	
Wind Shirt	Must Bring Must Bring	1] [

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Lower Body Clothing					
You need two to three lower-body insulating	layers that fit comfortably	vover each other an	d underneath yo	ur wind or rain p	ants

Example combination: Mid-weight long underwear + fleece pants.						
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST		
Base Layer - Long Underwear Bottoms	Must Bring	2 pairs	Mid- or expedition-weight synthetic or performance wool is best. (Examples: Patagonia Capilene, Icebreaker wool).			
Insulated or Fleece Pants	Must Bring	1 pair	Fleece or synthetic-filled pants are needed when weather is especially cold. (Examples: Sherpa Jaaro Microfleece Pants, Mountain Hardwear Compressor Pants)			
Rain Pants*	Must Bring, or Rent \$15.00	1 pair	These need to fit comfortably over your hiking pants.			
Hiking Pants	Must Bring	2 pair	Nylon or other synthetic hiking pants are recommended for protection from bugs and dense vegetation.			
Wind Pants	Must Bring	1 pair	Nylon wind shell, roomy enough to fit comfortably over your base layers. Excellent protection in dense bushes and from bugs, or for use as "cooking pants."			
Nylon Shorts	Optional	1 pair	Nice for warm days. Pockets are nice to have.			
Miscellaneous Clothing						
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST		
Sun Hat or Baseball Cap	Must Bring	1	Should be wide-brimmed to protect from sun.			
Winter Hat	Must Bring	2	Fleece or wool hat that will fully cover your ears.			
Buff, Balaclava, or Neck Gaiter	Optional	1	Used to keep your head, neck, and ears warm or protect from the wind and sun – can replace a light cap			
Bandana	Must bring	1	For multiple uses.			
Glove Liners	Must bring	1	Lightweight polypropylene gloves may be layered with heavier gloves for warmth or worn alone for sun protection.			
Waterproof Gloves or Mittens	Must Bring	2 pair	Must be Waterproof. Wool or synthetic gloves or mittens for cold mornings or evenings around camp.			
Glove or Mitten Shells	Optional	1 pair	Waterproof gloves or shells to warm hands and keep them dry.			
Underwear/Bras	Must Bring	2-4 pairs of underwear; 2 Bras	Undergarments made from merino wool or synthetic to wick moisture are highly recommended. Cotton briefs for women are acceptable.			
In Town Clothes	Must Bring	1 pair	Comfortable, casual set of clothes for in town & for your flight home at the end of your course.			
Sleeping Gear						
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST		
Mummy Style Sleeping Bag w/Stuff Sack*	Must Bring, or Rent - \$40.00	1	Temperature rating of 20 degrees F or colder. Synthetic, not down. Compression stuff sack recommended.			
Sleeping Bag Liner	Optional	1	To keep you warmer on cold nights. Recommended if you get cold easily at night. Wool or synthetic recommended.			

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	Must Bring, or		Closed-cell foam or self-inflating pads. (Example: Therm-a-rest		
Sleeping Pad*	Rent - \$10.00	1	Ridgerest or Z Lite).		
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 size)	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	Must Bring	2	Heavy, durable plastic. Wide-mouth and must be at least 32 oz. A lightweight bladder system can 1 durable water bottle). Examples: Platypus SoftBottle and Nalgene.		
Hydration System	Optional	1	CamelBak or Platypus are popular.		
Insulated mug	Must Bring	1	Durable plastic for hot drinks.		
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 getting wet.		
Mosquito Head Net	Optional	1	Mosquitos & blackflies can swarm heavily in summer months.		
Insect Repellent & Sunscreen	Must Bring	1	Small, travel sized bottles – NO AEROSOLS. Sunscreen must be SPF 30 or greater.		
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 on ground. Crazy Creek, sleeping pad adaptor, or make from cut foam.		
Optional Items	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		

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Bear Canisters or Bags		Soap, Hand Sanitizer & Hygiene Wipes		Repair Kit			
First Aid Kit		Satellite Communication Device Group Sunscreen & Bug Spray					
Cooking Gear		Course Food & Spice Kit		Water Treatment			
Stoves, Fuel Bottles & Fuel		Maps & Reference Books/Materials		Compass & Whistle			
Tents		Group & Solo Tarps		Toilet Paper & Trowel			
Students share both the use	Students share both the use of and the responsibility for the group gear that NCOAE dispenses.						
NCOAE Will Supply		<u></u>					
Camp Pillow	Optional	1	Should be small, made out of a synthetic material and compressible.				
Notebook w/ Pen or Pencil	Optional	1	A notebook for journaling or drawing.				
Small Stuff Sacks or Gallon Ziplocs	Optional	2-3	Used to organize items in yo convenient.				
Ear Plugs	Optional	1-2 pairs	To block out loud sleepers				
Small Card Game or Cards	Optional	1	For down time.				
Book	Optional	1	A small, lightweight book for	A small, lightweight book for reading.			
Binoculars	Optional	1	Small, travel sized.				
			or tables into the backcount				

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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.

Mid-weight hiking boots:

Asolo: TPS Series, Power Lite Series, Matrix Series, Radiant Series, Energy Series, FSN Series

Lowa: Terek GTX, Tibet Pro GTX Garmont: Dakota, Synchro Gore-Tex

La Sportiva: Thunder II GTX, Garnet GTX, Omega GTX

Scarpa: Himavan GTX, Mangali GTX, Bhutan GTX, Kailash GTX, Terra GTX

Vasque: Wasatch GTX, Summit GTX, Sundowner GTX, Clarion GTX, Taku GTX, Talus UltraDry

Oboz: Wind River, Sawtooth Mid