## NCOAE Equipment List Alaska – 14-day Teen Leadership Expedition



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 or Walmart. 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 borrow 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 use! Of course you don't have to borrow equipment from us, but our gear is tailor-made to fit our expeditions
- 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!
- Do not bring electronics (i.e. cell phones, tablets, smart watches, MP3 players, etc.) If flying unaccompanied, please bring your cell phone with you while traveling. At check-in, all cell phones and other electronics will be collected by NCOAE staff and secured in a lock box until your group returns from the field.
- Items listed below with an asterisk (\*) may be available, in limited quantities, for student use on an as needed basis.

# Comments, questions, concerns... Call NCOAE Headquarters Monday through Friday between the hours of 8:30am-4:30pm EST at (910) 399-8090.

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## **Teen Leadership Expedition**

Packs and Bags				
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST
Internal Frame Backpack	NCOAE Provides	1	Internal frame backpack, with a volume of 75 to 85 liters is ideal (4,600-5,200 cubic inches).	
Waterproof Stuff Sacks / Gallon Ziplocs	Must Bring	1-4	Used to organize items in your pack. Lightweight drysacks are convenient (example: eVent Sil DrySack).	
Day Pack	Must Bring	1	Small backpack for use on day hikes or trips into town.	
Zip Duffle	Must Bring	1	Used to organize and store items while at camp. (Example: Outdoor Products 12x24 Deluxe Duffle).	
Footwear		I	I	I
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST
Sturdy Hiking Boots*	Must Bring	1 pair	<b>Must be WATERPROOF.</b> Recommend sturdy, leather boots. Please read the Boot Selection Guide at the end of this list.	
Hiking Socks	Must Bring	5-6 pairs	Must be 75%–100% wool, merino wool, synthetic-wool, or synthetic. <b>No cotton or wool-cotton blends.</b>	
Camp Shoes	Must Bring	1 pair	Closed-toed shoes are a must to protect your feet and are more comfortable for wearing in camp.	
Water Shoes	Optional	1 pair	<b>Recommend closed-toed</b> for protection from rocks, sharp objects, or in case you fall in the water. Must have heel strap. (Example: Keens, Chacos). <b>NO CROCS.</b> Can use as camp shoes.	
Gaiters	Optional	1 pair	Full gaiters provide good leg protection while bushwhacking. Low gaiters are also acceptable.	
Upper Body Clothing				
			y over each other, and under your rain gear. If you get cold easily, Long Underwear + T-shirt + Fleece Jacket + Rain Jacket.	we suggest
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST
Base Layer - Long Underwear Top	Must Bring	2	Light or expedition-weight synthetic or performance wool is best. (Examples: Patagonia Capilene, Icebreaker wool)	
Fleece or Light Jacket / Hoodie	Must Bring	1	Mid-weight fleece or synthetic jacket that fits over your base layers. <b>No cotton hoodies.</b> (Example: Mountain Hardwear Microchill)	
Long-Sleeved Shirt / Expedition Pullover	Must Bring	1	Must be synthetic. (Examples: Mountain Hardwear Expedition- Weight zip-tee)	
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	3-4	Lightweight synthetic or wool shirts recommended.	
Insulated Jacket / Puffy	Must Bring	1	A warm, lightweight, synthetic-fill "puffy" jacket that fits over your base layers & under your ski jacket. (Example: Patagonia Nano Puff Hoody)	
Wind Shirt	Must Bring	1	Nylon long-sleeved wind shell, must fit over base layers. Protection from bugs, wind, brush or to use as "cooking shirt."	

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Rain Jacket*	NCOAE provides	1	Must be WATERPROOF. Jacket should be roomy enough to fit comfortably over all upper-body layers. For rainy or stormy days in the backcountry. Ponchos or Frog Toggs are NOT ACCEPTABLE.				
Lower Body Clothing							
You need <b>two to three lower-body insulating layers</b> that fit comfortably over each other and underneath your wind or rain pants. Example combination: Long Underwear + Hiking Pants + Rain Pants							
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST			
Base Layer - Long Underwear Bottoms	Must Bring	2 pair	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	1 pair	Must be WATERPROOF. These need to fit comfortably over your hiking pants.				
Hiking Pants	Must Bring	1-2 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	1	<b>_</b>					
EQUIPMENT		OLLA NITITV/					
	REQUIREMENT		COMMENTS	CHECK LIST			
Sun Hat or Baseball Cap	Must Bring	1	COMMENTS Should be wide-brimmed to protect from sun.				
Sun Hat or Baseball Cap	Must Bring	1	Should be wide-brimmed to protect from sun.				
Sun Hat or Baseball Cap Winter Hat*	Must Bring Must Bring	1 2	Should be wide-brimmed to protect from sun.				
Sun Hat or Baseball Cap Winter Hat* Bathing Suit Buff, Balaclava, or Neck	Must Bring Must Bring Must Bring	1 2 1	Should be wide-brimmed to protect from sun. Fleece or wool hat that will fully cover your ears. Used to keep your head, neck, and ears warm or protect from				
Sun Hat or Baseball Cap Winter Hat* Bathing Suit Buff, Balaclava, or Neck Gaiter	Must Bring Must Bring Must Bring Optional	1 2 1 1	Should be wide-brimmed to protect from sun. Fleece or wool hat that will fully cover your ears. Used to keep your head, neck, and ears warm or protect from the wind and sun – can replace a light cap				
Sun Hat or Baseball Cap Winter Hat* Bathing Suit Buff, Balaclava, or Neck Gaiter Bandana	Must Bring Must Bring Must Bring Optional Must Bring	1 2 1 1 1	Should be wide-brimmed to protect from sun. Fleece or wool hat that will fully cover your ears. Used to keep your head, neck, and ears warm or protect from the wind and sun – can replace a light cap For multiple uses. Lightweight polypropylene gloves may be layered with heavier				
Sun Hat or Baseball Cap Winter Hat* Bathing Suit Buff, Balaclava, or Neck Gaiter Bandana Glove Liners Waterproof Gloves or	Must Bring Must Bring Must Bring Optional Must Bring Must Bring	1 2 1 1 1 1 1	Should be wide-brimmed to protect from sun. Fleece or wool hat that will fully cover your ears. Used to keep your head, neck, and ears warm or protect from the wind and sun – can replace a light cap For multiple uses. Lightweight polypropylene gloves may be layered with heavier gloves for warmth or worn alone for sun protection. <b>Must be Waterproof.</b> Wool or synthetic gloves or mittens for				
Sun Hat or Baseball Cap Winter Hat* Bathing Suit Buff, Balaclava, or Neck Gaiter Bandana Glove Liners Waterproof Gloves or Mittens	Must Bring Must Bring Must Bring Optional Must Bring Must Bring Must Bring	1 2 1 1 1 1 2 pair	Should be wide-brimmed to protect from sun. Fleece or wool hat that will fully cover your ears. Used to keep your head, neck, and ears warm or protect from the wind and sun – can replace a light cap For multiple uses. Lightweight polypropylene gloves may be layered with heavier gloves for warmth or worn alone for sun protection. <b>Must be Waterproof.</b> Wool or synthetic gloves or mittens for cold mornings or evenings around camp.				

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## **Teen Leadership Expedition**

Sleeping Gear					
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST	
Mummy Style Sleeping Bag w/Stuff Sack*	Must Bring or NCOAE provides	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.		
Sleeping Pad*	Must Bring or NCOAE provides	1	Closed-cell foam or self-inflating pads. (Example: Therm-a-rest 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/SPF, Feminine Hygiene products. Shampoo, Conditioner, Soap, Washcloth/Loofah, & Facewash for in-town days.		
Watch w/ Alarm	Must Bring	1	Must be waterproof (Example: Timex Expedition)		
Headlamp	Must Bring	1	Durable and lightweight.		
Extra batteries	Must Bring	1-2 sets	Bring 1 spare set for headlamp		
Water bottle, 32oz	Must Bring	2	Heavy, durable plastic. Wide-mouth and must be at least 32 oz.		
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		
Camp Towel	Must Bring	1	Must be compressible, lightweight, quick-drying, made of a microfiber. For use after sweating or after getting in water.		
Mosquito Head Net	Optional – NCOAE provides	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	Must Bring	1 set			

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Optional Items							
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS		CHECK LIST		
Camera	Optional	1	Small, waterproof camera. You are not permitted to bring cell phones or tablets into the backcountry, even for camera use.				
Book	Optional	1	A small, lightweight book for reading.				
Small Card Game or Cards	Optional	1	For down time.				
Camp Pillow	Optional	1	Small, synthetic and compressible camp pillow.				
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.				
NCOAE Will Supply							
Students share both the use of and the responsibility for the group gear that NCOAE dispenses.							
Tents G		Group & Solo Tarps		Toilet Paper & Trowel			
Stoves, Fuel Bottles & Fuel Map		Maps & Re	ference Books/Materials	Compass & Whistle			
Cooking Gear C		Course Food & Spice Kit		Water Treatment			
First Aid Kit Satellite Co		ommunication Device Group Sunscreen & Bug Spray					
Bear Canisters or Bags Soap, Han		d Sanitizer & Hygiene Wipes	Repair Kit				

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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.
- **Boots must be waterproof**. A Gore-Tex liner is recommended, but not required.
- 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 GTX, Power Matic Series GTX, Greenwood Series GTX, Drifter Series GTX Lowa: Renegade GTX, Zephyr GTX, Taurus GTX, Innovo GTX Garmont: Chrono GTX, Vetta GTX La Sportiva: TX Series Mid GTX, Scarpa: Mojito Hike GTX, Terra GTX Vasque: St. Ellias Waterproof, Breeze Waterproof, Talus Waterproof Oboz: Sawtooth Mid Waterproof, Bridger Mid Waterproof