NCOAE Equipment List Gap Year Semester – 42-day North Carolina



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
- All participants who wish to rent gear must 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. All rental gear is \$25 per item.
- 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 8:30am-4:30pm EST at (910) 399-8090.

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North Carolina	1			
Packs and Bags				
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST
Internal Frame Backpack*	Must Bring, or Rent	1	Internal frame backpack. Must be at least 65 liters . Volume of 75 to 85 liters is ideal (4,600-5,200 cubic inches).	
Gallon Ziplocs / Waterproof Stuff Sacks	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 or for use on trips into town or when day hiking.	
Zip Duffle	Must Bring	1	Used to organize and store gear while at camp.	
Dry Bag	Optional – NCOAE provides	1	Used to organize and store personal and group gear while on the river. (Example: Seal Line Dry Bag, 65 – 110L).	
Footwear				
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST
Mid-Weight Hiking Boots	Must Bring	1 pair	Must be at least mid-weight. Recommend waterproof. Please read the Boot Selection Guide at the end of this list.	
Hiking Socks	Must Bring	4-6 pairs	Must be 75%–100% wool, merino wool, synthetic-wool blend or heavy ragg type. No cotton or cotton blends.	
Camp Shoes	Must Bring	1 pair	Closed-toed shoes are a must to protect your feet and are more comfortable for wearing in camp.	
River Shoes / Sandals	Must Bring	1 pair	For protection from rocks, sharp objects, or in case you happen to fall out in the water. Must have a heel strap . (Example: Keens, Chacos).	
Upper Body Clothing				
		-	ght insulation layer, & puffy jacket), a wind-proof/rain layer, and get cold easily, we suggest that you take four insulating layers, o	
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 Lightweight Jacket	Must Bring	1	Light to mid-weight fleece jacket that fits over your base layers. (Example: Mountain Hardwear Microchill)	
Long Sleeved Shirt / Expedition Weight Pullover	Must Bring	1	Must be synthetic. (Examples: Patagonia R1 Hoodie, 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	At least 2 lightweight synthetic or wool shirts recommended.	

A warm, lightweight, synthetic-fill "puffy" jacket that fits over

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 are NOT ACCEPTABLE.

your base layers. (Example: Patagonia Nano Puff Hoody)

Must Bring, or

Must Bring

Rent

1

Insulated Jacket / Puffy

Rain Jacket*

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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 rain pants. Example combination: Mid-weight long underwear + hiking pants + rain pants. REQUIREMENT CHECK LIST **EQUIPMENT** QUANTITY COMMENTS Base Layer - Long Mid- or expedition-weight synthetic or performance wool is Must Bring 2 pairs best. (Examples: Patagonia Capilene, Icebreaker wool). **Underwear Bottoms** Fleece or synthetic-filled pants for when the weather is Insulated or Fleece Pants Optional 1 pair especially cold. (Examples: Columbia Fleece Pants) Must Bring, or Must be WATERPROOF. These need to fit comfortably over Rain Pants* 1 pair your hiking pants. Rent Nylon or other synthetic hiking pants are recommended for **Hiking Pants** Must Bring 2 pair protection from bugs and dense vegetation. Nice for warm days. Pockets are nice to have. **Nylon Shorts** Must Bring 1-2 pairs **Miscellaneous Clothing EQUIPMENT** REQUIREMENT COMMENTS CHECK LIST QUANTITY Sun Hat or Baseball Cap Should be wide-brimmed to protect from sun. Must Bring Winter Hat Must Bring 2 Fleece or wool hat that will fully cover your ears. **Bathing Suit** Must Bring 1 Necessary for paddling parts of the adventure. Buff, Balaclava, or Neck Used to keep your head, neck, and ears warm or protect from Optional 1 Gaiter the wind and sun – can replace a light cap For multiple uses. 1 Bandana Must Bring Lightweight wool or synthetic gloves or mittens for cold Gloves or Mittens Must Bring 1 pair mornings or evenings around camp. 7-14 pairs of Undergarments made from merino wool or synthetic to wick moisture are highly recommended. Cotton briefs for women Underwear/Bras Must Bring underwear; are acceptable. 2 Bras Comfortable, casual set of clothes for in town days & for your In Town Clothes Must Bring 1-2 pairs flight home at the end of your course. **Sleeping Gear EQUIPMENT** REQUIREMENT QUANTITY COMMENTS CHECK LIST Temperature rating of 20 degrees F or colder. Recommend **Mummy Style Sleeping Bag** Must Bring, or synthetic and a compression stuff sack recommended. w/Stuff Sack* Rent To keep you warmer on cold nights. Recommended if you get **Sleeping Bag Liner** Optional cold easily at night. Wool, silk, or synthetic recommended. Closed-cell foam or self-inflating pads. (Example: Therm-a-rest

Ridgerest or Z Lite).

Must Bring, or

Rent

Sleeping Pad*

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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 (2-3oz travel size)	Must Bring	1 Set	Toothbrush, Toothpaste, Lip Balm w/Sunscreen, Feminine Hygiene products. (Shampoo, Conditioner, Facewash, Soap, Moisturizer, Washcloth/Loofah 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 1-2 spare sets for headlamp.					
Pocket Knife	Optional	1	One small pocket knife is sufficient.					
Water bottle, 32 oz	Must Bring	2	Heavy, durable plastic. Wide-mouth. Must be at least 32 oz . lightweight bladder systems also work well. (Example: Platypus SoftBottle and Nalgene).					
Hydration System	Optional	1	Can be used to replace one durable waterbottle. CamelBak or Platypus are popular.					
Insulated mug	Must Bring	1	Durable plastic mug for hot drinks.					
Plastic Bowl	Must Bring	1	Recommend 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	A pack towel that is compressible, lightweight, quick-drying, made of a microfiber or microfiber blend. For use after sweating or after getting in water.					
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.					
Trekking Poles	Optional	1-2						
Eyeglasses Strap	Optional	1	Good brands are Chums and Croakies.					
Sit pad or Camp chair	Optional	1	Lightweight, portable seat for increased insulation when sitting on ground. Crazy Creek, sleeping pad adaptor, or make from cut foam.					

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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 tablets 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.					
Fishing Gear	Optional	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, and you must obtain a license.					
Ear Plugs	Optional	1-2 pairs	To block out loud sleepers					
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 respon	sibility for the	group gear that NCOAE disp	enses.				
Tents		Group & Solo Tarps		Toilet Paper & Trowel				
Stoves, Fuel Bottles & Fuel		Maps & Reference Books/Materials		Compass & Whistle				
Cooking Gear		Course Food & Spice Kit		Dishwashing Supplies				
First Aid Kit		Repair Kit		Water Treatment				
Food Canisters or Bags		Soap, Hand Sanitizer & Hygiene Wipes		Solo Tarps				
PFD's		Paddling Gear & Safety Equipment		Satellite Communication Device				

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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.
- Waterproof boots are 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, 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