North Carolina – 7-day Teen Mountain 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. 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.
- Do not bring electronics (i.e. cell phones, tablets, MP3 players, etc.)
- 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.

North Carolina – 7-day Teen Mountain Expedition



Packs and Bags								
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST				
Internal Frame Backpack*	Must Bring, or Rent - \$25.00	1	Internal frame backpack, with a volume of 65 to 75 liters.					
Day Pack	Must Bring	1	Small backpack for use on day hikes or trips into town.					
Duffle Bag	Must Bring	1	To hold items in when not being used.					
Footwear								
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST				
Mid-Weight Hiking Boots*	Must Bring	1 pair	Sturdy, mid-weight hiking boot. 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, synthetic-wool blend. No cotton or cotton blends.					
Camp Shoes	Must Bring	1 pair	Lightweight sneakers (or sandals with a heel strap). These are for around camp. After hiking, you will want to take your hiking boots off.					
Upper Body Clothing		•		_				
You need at least three insulating layers: A wind-proof/rain layer, a mid layer, and a t-shirt. Make sure your layers fit comfortably over each other. Example combination: Long underwear + t-shirt + rain jacket.								
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST				
Base Layer - Long Underwear Top	Must Bring	1	Light to mid-weight synthetic or wool is best.					
Long Sleeved Shirt	Must Bring	1	Nylon or other synthetic long sleeved shirt, roomy enough to fit over base layers. Protection from bugs, wind, brush or sun.					
Fleece or Light Jacket	Must Bring	1	Light- to mid-weight fleece or synthetic-fill jacket that fits over your base layers. No cotton hoodies or jackets.					
T-Shirt	Must Bring	2-3	We recommend synthetic, lightweight polyester shirts.					
Rain Jacket*	Must Bring, or Rent - \$25.00	1	Your rain jacket should be roomy enough to fit comfortably over all upper-body layers. Ponchos are NOT acceptable .					
Lower Body Clothing								
		-	omfortably over each other and underneath your rain pants. Exa	mple				
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST				
Base Layer - Long Underwear Bottoms / Tights	Must Bring	1-2 pairs	Light to mid-weight synthetic or wool is best.					
Rain Pants	Must Bring, or Rent - \$25.00	1 pair	These need to fit comfortably over your hiking pants.					
Hiking Pants	Must Bring	1 pair	Nylon or other synthetic hiking pants are recommended for protection from bugs and dense vegetation.					
Shorts	Must Bring	1-2 pair	Light weight, quick drying (like board shorts or mesh) athletic short. Should be long enough to cover length of your thigh to					

North Carolina – 7-day Teen Mountain Expedition



			prevent chafing.				
Miscellaneous Clothing	<u> </u>						
EQUIPMENT	REQUIREMENT	QUANTITY	COMMENTS	CHECK LIST			
Sun Hat or Baseball Cap	Must Bring	1	Should be wide-brimmed to protect from sun.				
Buff	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.				
Swimsuit	Must Bring	1					
Light Winter Hat	Must Bring	1	Lightweight hat that will fully cover your ears, for cold mornings or evenings around camp.				
Light Gloves or Mittens	Must Bring	1	Lightweight wool or synthetic gloves for cold mornings or evenings around camp.				
Underwear/Bras	Must Bring	4-7 pairs underwear; 2 Bras	Undergarments made from synthetic materials or wool 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 travelling 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 - \$25.00	1	Temperature rating of 20 degrees F or colder. Recommend synthetic and a compression stuff sack.				
Sleeping Pad	Must Bring, or Rent - \$25.00	1	Closed-cell foam or self-inflating pad.				
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), Feminine Hygiene products. Shampoo, Conditioner, Face Wash, Soap for post-trip use only.				
Headlamp	Optional – NCOAE Provides	1	Durable and lightweight.				
Waterbottle – 32oz	Optional – NCOAE provides	2	Heavy, durable plastic. Must be at least 32 oz.				
Hydration System	Optional	1	Can be used to replace one durable waterbottle. CamelBak or Platypus are popular.				
Bowl, Cup, & Spoon/Spork	Optional – NCOAE provides	1 each	Durable, lightweight plastic or metal.				

North Carolina – 7-day Teen Mountain Expedition



	1	1	1		1				
Camp 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.						
Sunglasses	Optional	1	Durable with UV protection.						
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							
Camp chair or sit pad	Optional	1	Lightweight, portable seat for increased comfort when sitting on ground.						
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.						
Book	Optional	1	A small, lightweight book for reading.						
Small Card Game or Cards	Optional	1	For down time.						
Small Stuff Sacks or Gallon Ziplocs	Optional	2-3	Used to organize items in your pack. Lightweight dry sacks are convenient.						
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 respons	ibility for the	group gear that NCOAE disp	enses.					
Tents		Group Tarp		Internal Frame Backpack					
Sleeping Bag & Stuff Sack		Sleeping Pad		Headlamp					
Stoves, Fuel Bottles & Fuel		Maps & Reference Books/Materials		Compass & Whistle					
Cooking Gear		Course Food & Spice Kit		Water Treatment					
Bowl & Spoon		Nalgene Water Bottles (2)		Dishwashing Supplies					
Bear Canisters or Bags		Soap, Hand Sanitizer & Hygiene Wipes		Toilet Paper & Trowel					
First Aid & Repair Kit		Group Sunscreen & Bug Spray		Notebook w/Pen or Pencil					

North Carolina – 7-day Teen Mountain Expedition



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