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Multi-Day Alpine Climbing and Mountaineering Rocky Mountain National Park, CO **EQUIPMENT CHECKLIST**

This equipment list has been developed specifically for the conditions you will experience in Rocky Mountain National Park during the summer season, with considerations for fall and spring climbing. The equipment you bring must function well in a wide variety of conditions. While each piece of gear you bring is crucial to your success and safety, what you leave out of your pack can benefit you in similar ways by lightening your load, allowing you to move quickly and efficiently over alpine terrain. Our aim is to have you bring only the essential gear for your mountain adventures.

Please understand that weather varies throughout the year and that this list is designed to outfit you for severe conditions that you may not actually experience during your course. Everything you bring should fit inside your backpack while still allowing space for a bear canister. Sleeping pads and water bottles may be the only exceptions to this, if they are positioned securely in water bottle pouches, and not clipped and swinging.

CLIMATE: Temperatures and weather conditions in the Rockies are often conducive to great climbing conditions. Thunderstorms, however, are somewhat common and intense rainstorms often last a few hours in the afternoons. Nighttime low temperatures in the high peaks often drop to slightly above freezing in the summer, while daytime highs range anywhere from 35°F to 70°F. Mountain breezes are common and should be taken into consideration when planning your clothing system.

GEAR PREPARATION: Please take the time to carefully prepare and understand your equipment. If possible, it is best to use it in the field beforehand, perhaps on a backpacking trip or training hike. Take the time to properly label and identify all personal gear items. Many items that climbers bring are almost identical. Your name on a garment tag or a piece of colored electrical tape is an easy way to label your gear; fingernail polish on hard goods is excellent. If using tape or colored markers, make sure your labeling method is durable and water resistant.

When preparing your equipment for travel to Colorado, please remember that lighters and stove fuel are not allowed on aircraft. Stoves that have been thoroughly cleaned can be put in your checked baggage.

ASSISTANCE: At AAI we take equipment and its selection seriously. Our Equipment Services department is expertly staffed by climbers, skiers and guides. Additionally, we only carry products in our store that have been thoroughly field tested and approved by our guides. This intensive process ensures that all equipment that you purchase from AAI is best suited to your course and future mountain adventures. Please contact us to select equipment for your course.

Please contact the Equipment Shop at 360-671-1570 for assistance in selecting equipment for your course.

Rentals: Equipment items that may be available for rent are designated with an (R). If you will be needing any rental equipment please fill out a <u>Rental Request Form</u> as soon as possible so that we can best guarantee rental availability for your course.

Clothing and Footwear	Packing Checklist
COMFORTABLE SHOES/ APPROACH SHOES Comfortable, lightweight shoes to use on the approach to hikes and scrambling sections of climbs. ★ Examples: Salewa Wildfire Approach shoes, Scarpa Gecko Lite	□ Own □ Buy
LIGHTWEIGHT MOUNTAINEERING BOOTS For early/late season only (on snow and ice); not required July-September. Lightweight leather or synthetic mountaineering boots are ideal. These must have a ½ to 3/4 length shank and be designed for use with crampons. Look for a model with a waterproof/ breathable liner to help keep your feet dry. * Examples: Kayland Apex Rock, La Sportiva Trango GTX, Garmont Tower GTX * NOTE: There are many makes and models out there and not all are created equal. Please consult with our Equipment Shop if you are uncertain about the acceptability of your chosen model.	□ Own □ Buy
SOCKS Bring two complete changes. Adjust your sock system ahead of time to perfect your boot fit. Bring additional changes of socks for your approach shoes. No cotton.	□ Own □ Buy
UNDERGARMENTS To wear under your base layer.	□ Own □ Buy
BASE LAYER TOP This will be your base layer and should be "lightweight or silk weight" synthetic or wool. No cotton.	□ Own □ Buy
BASE LAYER BOTTOM Not required July - September. Look for the same features of your Base Layer Top. They should fit comfortably under your trekking pants. One pair is sufficient. ** Materials: Synthetic, wool ** Examples: Patagonia Capilene, Mammut Go Dry, Mountain Hardware Power Stretch Tight	□ Own □ Buy
HIKING PANTS Look for synthetic lightweight hiking or climbing pants. This will be your outermost layer most of the time for your legs. A thigh pocket is a useful feature for storing small items. Your base layers need to fit under these pants comfortably. Your pants should not restrict your range of motion. * Materials: Schoeller, Powershield, Powerdry or similar * Examples: Prana Stretch Zion, Patagonia RPS Rock Pant	□ Own □ Buy
2nd LAYER TOP Not required July - September. A lightweight fleece or wind shirt. A chest pocket is a helpful feature.	□ Own □ Buy

SOFT SHELL JACKET A thin, light, stretchy, breathable but wind and snow-resistant layer that is comfortable to wear is ideal. This will be your "action" layer and the outer layer you will spend most of your time in. Hoods are optional but highly recommended. Size your jacket to be trim fitting, but large enough to fit over your base and second layers. Light to moderate insulation/thickness is recommended. This layer will go over your base and insulation layers, but under your shell and parka. No waterproof coated nylon, as it is not breathable. ** Materials: eVent, Gore-tex, h2No, or similar ** Examples: Patagonia Houdini, Rab Cirrus Wind Top, Rab Vapor Rise Lite-Alpine, Mountain Equipment Squall	□ Own □ Buy
SOFT SHELL PANT Look for the same features as your soft shell jacket. This will be your outermost layer most of the time for your legs. A thigh pocket is a useful feature for storing small items. Your base layers need to fit under these pants comfortably. * Materials: eVent, Gore-tex, h2No, or similar * Examples: Black Diamond Alpine, Arc'Teryx Gamma, Mountain Equipment Comici	□ Own □ Buy
WATERPROOF / BREATHABLE SHELL JACKET This will be your outermost layer and it needs to be waterproof, breathable, and durable. Two or three—ply Gore—tex or other waterproof breathable materials are required. Your parka needs to have a hood and should be sized to fit over your clothes. Lightweight and compressible layers are ideal but don't sacrifice too much weight for durability. * Materials: eVent, Gore-tex, h2No, or similar * Examples: Arc'teryx Beta and Gamma jackets, Marmot Alpinist, and Patagonia Stretch Rainshadow	□ Own □ Buy
SHELL PANT Not required July - September. Made of waterproof/ breathable material, your lightweight shell bottoms should have full or hip-length side zips. This garment should be extremely lightweight and packable. A zipper fly is a nice optional luxury. * Materials: eVent, Gore-tex, h2No, or similar * Examples: Marmot PreCip Full Zip and Minimalist pants, Arcteryx Beta AR Pants, Rab Latok Alpine Pant	□ Own □ Buy
LIGHT INSULATING JACKET The goal for this piece is to add warmth to your internal layering system. Depending on your clothing system and the environment you are in, you may fit this layer underneath your shell gear (e.g. fleece sweaters) or over your shell gear (lightweight insulated jackets). If choosing fleece, pick modern fleece garments with waffle grid patterns and avoid "windproof fleece" — it is not breathable enough. The weight and design of this piece will vary based on the other items of climbing that you are bringing. * Materials: fleece, Primaloft, down * Examples: Patagonia Nano Puff or Nano Air Hoody, Rab microlight Alpine, Arc'Tryx Atom LT Hoody, OR Cathode Hoody	□ Own □ Buy
MID-WEIGHT INSULATION JACKET A warm puffy jacket with an optional hood. These come in many shapes, sizes and temperature ratings. If you tend to get cold easily, opt for a slightly warmer more substantial parka. *** Fill Materials: Primaloft, down ** Shell Material: Nylon epic eVent *** Examples: Rab Xenon X Hoodie, Patagonia DAS parka	□ Own □ Buy
T-SHIRT Light colors are best. This shirt can be synthetic or cotton. If you plan to hike in it, synthetic is better. A cotton shirt can be a nice break from the synthetics while at camp.	□ Own □ Buy

SHORTS Lightweight shorts are nice for warm days.	□ Own □ Buy
MIDWEIGHT/SCHOELLER/LEATHER GLOVES The most desirable glove is one that is comfortable and dexterous so that it can be worn all day. It should be durable enough (leather palms) to handle ropes, ice axes, and a bit of rock scrambling. ★ Materials: Softshell, windstopper fleece, leather or similar ★ Examples: Petzl Cordex Plus Gloves, Mountain Equipment Super Alpine Glove ★ Note: Choose a mid-weight model for early/late season climbing (October - June)	□ Own □ Buy
BEANIE HAT/ TOQUE A thick warm hat is crucial for keeping warm. ** Materials: Fleece, wool, windstopper, or similar	□ Own □ Buy
SUN HAT A baseball cap or visor serves well. Models with a "tail" are recommended for increased sun protection.	□ Own □ Buy
LIGHTWEIGHT BALACLAVA/ BUFF A balaclava is a warm hat that can be pulled over the head to the shoulders. It completely covers the head except for an opening for the face. It should provide excellent wind protection for the chin, ears and neck. A Buff can substitute for this. ** Materials: Powerstretch, fleece, polypro, windpro	□ Own □ Buy
POST-CLIMBING CLOTHING A clean set of clothing is an excellent item to leave in the vehicle to change into upon your return.	□ Own
Hiking Equipment	
TREKKING POLES At least one pole is required, two are strongly recommended. Even if you don't normally use trekking poles, they help with balance while carrying heavy pack on mountainous terrain and crossing streams. Adjustable poles only. * Examples: Black Diamond Expedition poles, Komperdell models	□ Own □ Buy
SUMMIT PACK This is a daypack used for trekking and as a summit pack. ★ Size: 10-18 liters ★ Examples: Mammut Trion Light, Osprey Stratos 34, Mountain Hardware SummitRocket	□ Own □ Buy
GAITERS Optional, suggested for October - June. Knee height. Keeps snow and ice out of your boots and socks and will also protect your pants from the sharp points on your crampons. Check the fit of the gaiter to your boot in advance to make sure the coverage is adequate. Can omit if your pants have a built gaiter and scuff guard. ★ Examples: Outdoor Research Crocodile, Mountain Hardwear Ascent Stretch Air Perm Gaiter	□ Own □ Buy
Climbing Equipment	

CLIMBING HARNESS (R) For alpine climbing, choose a harness with adjustable leg loops and a belay loop. Make sure it fits your body when wearing bulky clothing. Gear loops are desirable features. ★ Examples: Mammut Zephir Altitude, Camp Alpine Flash, Black Diamond Alpine Bod	□ Own □ Buy □ Rent
CLIMBING HELMET (R) Must be UIAA approved for climbing and in good condition. Lightweight, well ventilated, and comfortable. Models with a plastic shell are more durable, but are heavier than all foam models. Kayak or bicycle helmets are not acceptable. **Examples: Black Diamond Half Dome, Petzl Elios*	□ Own □ Buy □ Rent
CLIMBING SHOES There are many different kinds, but make sure you have some you can stay all day and are comfortable. An all–around rock shoe that performs well (both in cracks and while edging) is recommended. ★ Examples: La Sportiva Mythos	□ Own □ Buy
INTERNAL FRAME CLIMBING PACK Choose the pack that fits your body best. An external frame is not adequate. ★ Size: 40-60 liters ★ Examples: Black Diamond Speed 40, Arc'Teryx Alpha FL 45, Cold Cold World Valdez, CiloGear 40B Worksack, Gregory Alpinisto 50	□ Own □ Buy
CLIMBING PACK This will be your main bag while climbing. Choose a model that fits your body best. Minimal or not internal frame design is preferred. ★ Size: 20-30 liters ★ Examples: Cassin Egh 22, Mammut Trion Light 38L	□ Own □ Buy
LARGE LOCKING CARABINERS At least four total. Two must be large, pear shaped (or Münter) locking carabiners. Wiregate non-locking carabiners work well for the remaining two. ★ Examples: Petzl Attache, Black Diamond Vaporlock, Camp HMS Nitrolock	□ Own □ Buy
BELAY DEVICE Bring and autoblocking device.	□ Own □ Buy
SEWN RUNNERS We require you to bring one (1) sewn nylon sling. Should be 120cm (48in.) in length. Thinner spectra/dyneema slings are not recommended.	□ Own □ Buy
CHALK BAG AND CHALK	□ Own □ Buy
ROCK CLIMBING RACK Optional. This generally includes an assortment of wired nuts, cams, hexes, nut tool etc. Bring what you have, if you don't own any trad gear, we will provide this for you during the course.	□ Own □ Buy
STEEL CRAMPONS (R) Not required July - September. Only modern strap on, step-in, or 'new-matic' crampons are acceptable. New-matic models are preferred. Step-in crampons are easier to put on with cold fingers but they are not compatible with all boots. Anti-balling plates are highly recommended. Rigid crampons have limited application to the mountains and are usually	□ Own □ Buy □ Rent

ICE AXE (R) Not required July - September. A variety of axes are suitable. Bring one that is 60 cm max — if you are over 6 in. (50 cm to 55 cm preferred). A 'positive clearance' pick is preferred. Ice axe leashes are optional. * Objective-dependent in summer months; talk with your Program Coordinator or guide to confirm. Required in winter months.	□ Own □ Buy □ Rent
Camping Equipment	
TENT Recommended October - May. Choose a lightweight, three-season, two-person tent. It should be able to withstand short, but intense rain storms. Single-wall models are lighter, but suffer from more condensation than heavier double wall models. Generally, your shelter should weigh no more than 3 lbs. per person. ★ Examples: Hilleberg Anjan	□ Own □ Buy
BIVY SACK (R) From June - September, a bivy sack may be used in place of a tent. ★ Contact your Program Coordinator or guide for specific recommendations for your trip.	□ Own □ Buy □ Rent
SLEEPING BAG Rated to around -20°F from late June to mid-September. Bring a 15° to 20° for early and late season trips. Down is preferred. To help keep your sleeping bag dry, bring an extra large garbage bag with you to line your sleeping bag stuff sack and use for storage in the tent. * Materials: Down, Primaloft, Polarguard 3D * Examples: Winter season: Mountain Equipment Iceline; Summer season: Rab Ascent 300	□ Own □ Buy
COMPRESSION STUFF SACK Used to shrink your sleeping bag into the smallest size possible.	□ Own □ Buy
SLEEPING PAD Please bring a <u>patch kit</u> for inflatable pads. <i>★ Examples: Thermarest ProLite Plus, Exped Down Mat, Sea to Summit Comfort Lite</i>	□ Own □ Buy
LIGHTER Bring two. ★ Note: lighters are no longer acceptable in checked baggage when flying.	□ Own □ Buy
REPAIR KIT At a minimum this kit should include: • A stove repair kit (designed for your stove) • Thermarest repair kit (for Thermarest pad users) • 10-20 feet of lightweight nylon cord • A small sewing kit • Duct tape (wrapped on water bottles or trekking poles) • An extra waist buckle for your pack	□ Own □ Buy
MULTI-TOOL or POCKET KNIFE Leatherman Tool or Swiss army style is good.	□ Own □ Buy
Cooking Equipment and Food	
HYDRATION 2 liters of water capacity minimum. Hydration bladders with appropriate accessories are recommended.	□ Own □ Buy

WATER PURIFICATION Bring tablets or liquid purification. Filters are heavy and should not be used.	□ Own □ Buy
FOOD AAI does not supply food on this program. Select meals that are relatively easy to prepare but also appetizing. For the days bring plenty of quick, high-energy lunch food. We have included meal planning guidelines in your program packet.	□ Own □ Buy
STOVE Liquid fuel or canister stoves are acceptable. We'll likely pair up on stoves at the Rendezvous to save weight. ★ Examples: MSR Whisperlite, Jetboil, MSR Reactor	□ Own □ Buy
FUEL White gas or gas canister. 22oz of white gas or two 8oz canisters are usually sufficient. ★ Fuel is available to purchase at the rendezvous for your course	□ Own □ Buy
FUEL BOTTLE For use with liquid fuel stoves. Leak-proof bottles designed for your specific stove such as Sigg or MSR are best.	□ Own □ Buy
POT One 1 1/2 - 2 quart pot is enough for one person. Two people sharing a stove might want to bring two pots if their meals are significantly different.	□ Own □ Buy
 Spoon: Bigger is better. Lexan is lighter, but metals spoons are more durable. Consider bringing a spare if you go with Lexan. Thermal mug: 16-20oz with a lid. A 16oz wide mouth Nalgene is a favorite amongst our guides. Bowl: A lightweight Tupperware-type bowl is recommended. Avoid metal bowls, they are expensive, prone to tipping over, and make your food get cold very fast (or burn your hands when you are eating soup). 	□ Own □ Buy
Other Personal Equipment	
SUNSCREEN With Sun Protection Factor (SPF) 30 or higher. A couple of 1oz tubes are adequate and work better than one large one. For the fair skinned, the higher the SPF, the better. (Dermatone produces an effective 1" diameter stick as well as a translucent zinc oxide lotion.) Sunscreen is prone to freezing in the cold and smaller containers fit well into pockets for warming.	□ Own □ Buy
LIP PROTECTION Bring 1 container/applicator with the highest SPF available.	□ Own □ Buy
SUNGLASSES Choose a model with 100% UVA/UVB protection. Keeper strings like "Croakies" are useful to prevent dropping your glasses while climbing. Those using contact lenses should bring a pair of prescription glasses if available.	□ Own □ Buy
HEADLAMP A high output LED model. Bring fresh batteries and one set of extra batteries. Flashlights are not acceptable. * Examples: Petzl Tikka XP, Black Diamond Spot	□ Own □ Buy

PERSONAL MEDICAL KIT For sunburn, blisters, headaches, and minor cuts and scrapes. Please include duct tape, moleskin, bandages, and prescription at a minimum.	□ Own □ Buy
PERSONAL TOILETRIES Bring a toothbrush, toothpaste, floss, hand sanitizer, personal supply of TP, etc.	□ Own □ Buy
GARBAGE BAGS Bring one large bag to line your backpack and one to pack out garbage. Trash compactor bag, if available, are more durable.	□ Own □ Buy
Other Optional Items The items listed below are not required, although many are nice "luxury" items that can make your trip more enjoyable. Remember that a few ounces here and there add up to extra pounds on your back and knees during your trip.	
HANDIWIPES AKA the mountain shower. For personal hygiene <u>and</u> general use.	□ Own □ Buy
BANDANA A cotton bandana has many uses on the mountain.	□ Own □ Buy
ENTERTAINMENT Books and cards are great for evenings in the tent.	□ Own □ Buy
EAR PLUGS Defense against snoring and high winds in the area.	□ Own □ Buy
FOOT POWDER A very small bottle will allow you to treat your feet daily, keep them dryer, extend the life of your socks, and help you avoid blisters/rashes from chronic wet feet. <i>★ Examples: Gold Bond, Dr. Scholls</i>	□ Own □ Buy

Additional Details:

The Equipment Shop at the American Alpine Institute The Equipment Shop at the American Alpine Institute provides clothing and equipment for purchase, rental gear, and advice. Shop staff members are great climbers themselves and deeply involved in evaluating and testing gear. They are considered by many outdoor gear manufacturers to be the most expert in the country. They thoroughly understand the needs of climbers who will be rock climbing, ice climbing, mountaineering, or exploring the world on international expeditions.

Please consider our staff members part of your resource team in preparing for your trip. AAI Equipment Specialists are on hand to consult with you on specific gear needs, to answer questions on the latest equipment and innovations, and to make recommendations on best choices of clothing and equipment. They can assure that you are equipped with the best possible gear for your climbs. If you have any difficulty determining whether some particular items of clothing or equipment you already own will serve you well on a particular trip, they can help you answer that question.

Guides Choice International Field Testing

The Equipment Shop at the American Alpine Institute also administers AAI's prestigious <u>Guide's Choice Award</u>. Equipment and clothing that have been awarded the Guides Choice designation have proven to be the top item in their product category. The awards are made on the basis of excellence in design, performance, and durability demonstrated in rigorous international field tests carried out by the professional guides of the Institute.

Call or E-mail the Equipment Shop for Advice or Gear

Please feel free to contact us and to let us help you get ready for your climbing trip. Your comfort and safety depend on being well equipped. Whether you get your gear from us or just get advice, we're here to help you prepare.

Call: (360) 671-1570

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