



# IWLS

International Wilderness Leadership School

## Alaska Ski & Snowboard Mountaineering Course Equipment List

The weather in southeastern Alaska can be volatile. Clothing systems need to be capable of meeting the demands of an ever-changing environment. A layering system, which allows articles of clothing to be added or subtracted as the weather changes, has proven most versatile. The clothing items listed below will work together to provide appropriate insulation in the most demanding conditions. Because it can snow or rain, materials used in clothing should keep you warm even if they are wet. Synthetics such as polypropylene, Capilene, Synchronia, fleece, and pile are best, wool will also work. Cotton is unacceptable. It is a good idea to test out your gear before you arrive in Haines.

If you own any of the following “provided” personal gear, we encourage you to bring it to your course.

This will allow you to become proficient with the gear you will continue to use post course.

### Upper Body Layers

Upper body layers are some of the most important components of a good layering system. They should be comfortable, lightweight and breathable. Cotton is unacceptable, except for a sun shirt while hiking on warm days.

Equipment	Quantity	<input checked="" type="checkbox"/>	Comments	Rental
Base Layers	2		One silk weight and one heavy weight top made of synthetic material that can be layered together to increase warmth. A light-colored silk weight (white/tan/light blue, etc.) is a good idea because it will decrease the amount of solar radiation (warmth) that your shirt absorbs. Conversely, your mid-weight base-layers should be darker so that they do absorb the sun's warmth. <a href="#">Mountain Hardware</a> makes good lightweight, wicking base layers.	-
Tee Shirt	1		To be worn as a sun shirt while hiking at lower elevations. Synthetic fabric is the way to go, and can double as a bandana or extra sun protection under a baseball cap.	-
Medium Weight Top	1		To be worn over the base layers and should be synthetic or wool (a soft shell is an acceptable substitute). Both <a href="#">Black Diamond</a> and <a href="#">Mountain Hardware</a> offer great mid-weight layers.	-
Heavy Weight Top	1		To be worn over the base layers and medium weight top and should be synthetic or wool. Both <a href="#">Black Diamond</a> and <a href="#">Mountain Hardware</a> make nice thick layers.	-
Synthetic Down Parka	1		In a maritime climate in the mountains, a burly synthetic parka will be your best friend on those cold wet nights or windy summit mornings. It should easily fit over all layers. A down jacket with a water proof finish is acceptable, but if it gets wet you won't be happy...or warm. The <a href="#">Black Diamond Stance Belay Parka</a> is a solid option.	YES
Outer Wear	1		A jacket made of waterproof / breathable material such as Gore-Tex is vital for keeping you warm and dry. It needs to fit over all layers. <a href="#">Mountain Hardware shells</a> are breathable, dry, and windproof.	-

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## Lower Body Layers

Lower body layers should be versatile and easy to change into and out of under changing weather conditions.

Equipment	Quantity	<input checked="" type="checkbox"/>	Comments	Rental
Fleece or Synthetic Pants	1		These should be either fleece or synthetic down. If the pants have side zips, it will make your life a lot easier by allowing you to layer without removing your foot wear. We recommend the <a href="#">Mountain Hardware Compressor Pant</a> or the <a href="#">Black Diamond Stance Belay Pant</a> .	-
Shorts or Lightweight Pants	1		These are optional, but are nice to wear at lower elevations, in town, or as additional layering options. Cotton is unacceptable; synthetic will dry faster and be more comfortable for long periods of wear. A light softshell pant could work as well. <a href="#">Mountain Hardware</a> makes great pants.	-
Outer Wear	1		Pants made of waterproof / breathable material such as Gore-Tex are vital for keeping you warm and dry. They need to fit over all layers and should have side zips. <a href="#">Mountain Hardware</a> shell pants and bibs work great.	-

## Head, Neck, Hands & Feet

Keeping your extremities warm & dry is crucial. We lose a massive percentage of body heat through our heads, and our hands and feet are the most susceptible to inconveniences like frostbite and trench-foot. Developing a system that works for your specific needs takes time; this guide is a good place to start.

Equipment	Quantity	<input checked="" type="checkbox"/>	Comments	Rental
Warm-Hat	2		Should be made of synthetic material or wool, cotton is unacceptable. Should layer underneath a climbing helmet. <a href="#">Mountain Hardware</a> has a wide selection of warm hats.	-
Sun-Hat	1		The sun can be very bright (especially with reflection). The more protection your cap offers from the sun, the better.	-
Balaclava or Neoprene Face Mask	1		Used to protect the face from wind/snow, and can be a real life-saver under stormy conditions. <a href="#">Mountain Hardware</a> has a great series of face masks and balaclavas.	-
Goggles	1		Goggles with easy to change lenses are necessary for changing light conditions (low light vs. sunny). <a href="#">Smith Optics</a> make some great goggles.	-
Sunglasses	2		Dark lenses with good side protection are a must. The sun can be very bright (especially with reflection off of the water/snow/ice) and can cause permanent eye damage.	-
Light Weight Gloves	1		Windstopper fleece works best. Work gloves with a water proof palm are nice to have along when dexterity is more important than warmth. 'Dura-Therm' or like models (synthetic glove with rubber palm & fingers) work well, just ensure you find the warmest model available. <a href="#">Mountain Hardware</a> and <a href="#">Black Diamond</a> make great gloves.	-



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Heavy Weight Gloves/Mitts	1		Removable shell is a must. These should be warm, water-proof and breathable, with removable liners for easy drying. <a href="#">Black Diamond</a> and <a href="#">Mountain Hardwear</a> have durable expedition gloves.	-
Socks	3-4		These should be synthetic or wool. Having a mix of light and heavy weight socks is nice to adjust to variable weather.	-
Ski/Snowboard Boots	1		Most of our time will be spent in these boots over the course of the trip. Make sure they are comfortable. For ski gear, we recommend a vibram sole AT boot. Snowboard boots should have removable liners and be as water proof as possible.	-
Gaiters	1		These should fit over your ski boots, and are used to keep water/snow/rocks out. They should be tall and water/abrasion resistant. <a href="#">Black Diamond</a> has great options.	-

## Technical Hardware

For technical gear we recommend [Black Diamond](#). We run their equipment on every mountain trip we operate, and find it to be among the best in the industry. For tents and sleeping bags we recommend [Mountain Hardwear](#).

Equipment	Quantity	<input checked="" type="checkbox"/>	Comments	Rental
Skis / Snowboard	1		We recommend mid-fat to fat width skis (95mm – 115mm underfoot), and strongly recommend split-boards for snow boarders. Please don't hesitate to call us with any questions.	-
Bindings	1		An alpine touring binding or telemark binding without uphill-resistance and climbing wires is strongly recommended. Split-boarders should consider <a href="#">Spark</a> or <a href="#">Karakoram</a> set-ups. You need to be familiar with your set-up before the course: uphill, efficient transitioning, and downhill. Test this before arrival.	-
Climbing Skins	1		These should fit properly to your skis/board.	-
Avalanche Transceiver	1		Transceivers must use the 457 kHz frequency. Equipment rental is available. Consider the <a href="#">Black Diamond Recon BT</a> .	YES
Avalanche Shovel	1		A sturdy metal blade shovel. <a href="#">Black Diamond</a> makes convenient shovels.	Provided
Avalanche Probe	1		A retractable avalanche probe is used in avalanche rescue. BD has a lot of good <a href="#">avalanche equipment</a> .	Provided
Backpack	1		Should have a capacity of at least 5,000 cubic inches (or 80 liters), and should be comfortable with 60 lbs. of weight. <a href="#">Mountain Hardwear</a> and <a href="#">Black Diamond</a> packs are versatile and rugged. Please don't hesitate to call us before making any major purchases.	YES
Ski Poles	1		Lightweight and adjustable length work best. Snow baskets are a must. <a href="#">Black Diamond poles</a> are a great fit.	YES
Lightweight Harness	1		Should fit over all layers and be comfortable when wearing a pack. Adjustable leg loops are best. The <a href="#">Alpine Bod</a> harness is an ideal harness for mountaineering	Provided



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Crampons	1		Light weight, sturdy, and easily adjustable are best. The <a href="#">Black Diamond</a> Sabretooth works well.	Provided
Locking Carabineers	2		Large aluminum locking carabineers (such as the <a href="#">Black Diamond</a> Rocklock) are used on your harness for glacier travel and technical climbing.	Provided
Non-locking Carabiners	4		Oval or lightweight wiregate carabiners used for glacier travel and technical climbing systems.	Provided
6mm Cord	20 ft.		6mm accessory cord used for tying prussics.	Provided
Ice Axe	1		Should be light weight. The <a href="#">Raven</a> is a classic, or try the <a href="#">BD Swift</a> for more versatility.	Provided
Helmet	1		Should be light weight and rated for rock climbing/ mountaineering. The BD <a href="#">Vector</a> or <a href="#">Half Dome</a> are great options.	Provided
Large Duffel	1		Used for transporting gear in planes and vehicles on route to trip locale. 6000 cubic inches (100 liters) or larger are best. <a href="#">The Black Diamond Stone Hauler</a> is a great option.	-

## Sleeping Bag & Pads

Having a good sleep system is essential in the mountains. While down bags are very warm and pack incredibly small, they lose all insulating properties when they get wet.

Equipment	Quantity	<input checked="" type="checkbox"/>	Comments	Rental
Sleeping bag	1		We recommend a synthetic fill bag with a comfort rating of 0 degrees Fahrenheit. However, in early season (March/April) a down bag is more appropriate. <a href="#">Mountain Hardwear</a> bags work well. Please don't hesitate to call us before making any major purchases.	YES
Sleeping pads	2		A system of one compact inflatable pad ( <a href="#">Thermarests</a> work well) and one closed cell foam pad works best to insulate when sleeping on snow.	YES

## Miscellaneous

Equipment	Quantity	<input checked="" type="checkbox"/>	Comments	Rental
Passport	1		You'll need this to cross into Canada	-
Watch	1		Should have an alarm.	-
Journal	1		<a href="#">'Rite in the Rain'</a> or similar water resistant paper work best.	-
Eating Utensils	-		Bowl & Spoon (Lexan or titanium work well), as well as a 14oz mug with a lid for hot drinks.	-
Headlamp	1		We recommend LED headlamps, because they are lightweight, long-lasting & durable. Bring extra batteries. <a href="#">Black Diamond</a> Storm or Spot headlamps work great.	-
Toilet Paper	1		Bring your own in a Ziploc bag.	-
Personal Med-Kit	1		A personal prescription of a broad-spectrum antibiotic like Ciprofloxacin or Azithromycin is <b>REQUIRED</b> . Your kit should also include ALL personal medications, as well as a stash of Ibuprofen, Aspirin, Band-Aids, and Neosporin. A group Med-Kit	-



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			will be available for everyone, however bringing a personal kit is mandatory. If you have any questions please don't hesitate to call us.	
Blister Kit	1		This should include mole skin/foam and cloth athletic tape.	-
Water Bottles	2		Wide mouth 1-liter Lexan bottles ('Nalgene') work best.	-
Lip Balm	1-2		Should have some type of SPF protection.	-
Sunscreen	4-8oz.		Should be SPF 30 or higher and be waterproof.	-
Bandana or 'Buff'	1		Used for extra sun-protection. Your tee-shirt can be used in place of a bandana if you are trying to shave weight (which is a good thing).	-
Stuff Sacks	2-4		For organizing your gear inside of your backpack. <a href="#">Sea to Summit</a> makes great waterproof stuff sacks.	-
Garbage & Ziploc bags	variety		An invaluable method used to keep your gear dry inside of your pack. (Line your stuff sack with a garbage bag before you stuff your sleeping bag in there.)	-

## Optional

Equipment	Quantity	<input checked="" type="checkbox"/>	Comments	Rental
Summit Pack	-		Used on day excursions, should be between 35L - 55L (many people use their big pack for this purpose). Both <a href="#">Mountain Hardwear</a> and <a href="#">Black Diamond</a> offer some great climbing packs in this range.	-
Hand Warmers	10-15		A good thing to keep in your pack for those brisk alpine starts.	-
Sleeping Bag Liner	1		For increased warmth.	-
Ascender or Tibloc	0-2		<a href="#">Black Diamond</a> ascenders or a <a href="#">Petzl</a> tibloc are great for ascending/descending fixed lines and crevasse rescue.	-
Locking Carabiners	2		Small, lightweight pear-shaped carabiners used for rescue practice and building anchors. <a href="#">Black Diamond</a> makes great carabiners.	-
Belay Device	1		A standard belay plate can be used for technical climbing and rappelling. The <a href="#">ATC-Guide</a> is a great, versatile option.	-
Pulleys	2		Climbing pulleys are used to reduce friction on the rope during rescue practice. <a href="#">Black Diamond</a> makes a lightweight option.	-
6mm Cord	20 ft.		Additional accessory cord can be used to build anchors.	-
Pee Bottle	1		1-liter wide-mouth Lexan with a SECURE LID. Nice to have when there is really inclement weather outside.	-
Camp Booties	1 pair		A good pair of synthetic fill camp booties will keep your feet warm and dry after big days in winter environments. <a href="#">Sierra Designs</a> makes a great goose-down version with a rubberized bottom.	-
Energy/Candy Bars	0-20		Bring bars that taste good!	-
Moist Towelettes	0-20		This will be as close to a shower as you will get, we recommend one wipe per day.	-
Book	1-2		Light book/kindle.	-
Camera	1		Phones and GoPro's are okay, however the cold will drain batteries very quickly. A point and shoot digital camera that is compatible with AA's allows you to bring extra batteries that don't cost an arm and a leg. Bring an extra memory card.	-

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## Additional Information



We use gear from these select companies on every trip we run! Their gear has proven itself again and again on the highest mountains, roughest water, and steepest ice. We endorse these companies because they make gear that is functional and reliable.



**Black Diamond**



**We provide the following:** tents, group climbing equipment, expedition first aid kits, cooking equipment, and trip food.

Please don't hesitate to call us with any questions 1.800.985.4957

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