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## **4 DAY MT SHUKSAN SKILLS AND CLIMB**

## Bellingham, WA EQUIPMENT CHECKLIST

The primary goal of any alpine climber should always be to carry as little as possible. What is left out of a backpack is often just as important as what is placed inside. Conditions in the mountains vary dramatically from season-to-season, and sometimes even throughout the same day. This can make the process of preparing equipment for an alpine climb difficult. On the one hand, a climber wants to be light. But on the other, a climber wants to have everything he or she needs if there is a storm.

This list was designed for the "worst case scenario," a trip with significant inclement weather. In serious conditions it's not uncommon for a climber to need every piece of clothing and equipment on this list. However, if a program does not encounter significant weather, there may be items here that are not used. As you prepare for your trip, it's important to plan for the worst and hope for the best.

On the first day of your program, an AAI guide will work with you to refine your mountain kit to ensure that you bring exactly what's needed given the forecast. It is acceptable to bring too much clothing or equipment to your initial meeting. And it is acceptable to bring things that you have questions about. Extra equipment can always be left behind at the AAI shop.

The Cascade climbing season is defined as May 1st through October 1st. This list references Early, Mid, and Late-season conditions. These periods of the climbing season are roughly defined by the different types of weather and snow conditions you are likely to encounter:

- **Early-Season Conditions** (May 1st-July 1st): There is usually significant snow both on the ground as well as on the glaciers. Climbers should expect to encounter deep, wet snow during the day and firm conditions at night. Overnight temperatures range from 15-degrees to 40-degrees Fahrenheit (-9-4C). Daytime highs range from 35-degrees to 70-degrees Fahrenheit (1-21C). Precipitation as snow or rain is likely in the early season.
- Mid-Season Conditions (July 1st-September 1st): Temperatures range from 40 to 50-degrees Fahrenheit (4-10C) at night, with occasional dips down below freezing. Daytime temperatures often reach 70-degrees Fahrenheit (21C). Climbers should expect the possibility of freezing temperatures above 9000-feet on summit days throughout the summer season. And though mid-season tends to be dryer in the Cascades, the possibility of rain is still always there.
- Late-Season Conditions (September 1st-October 1st): September is a varied month.
   Temperatures begin to drop both during the day and at night. Late in the month, it is possible that you will encounter an increase in snow or rain.

Please be sure to check the forecast several days prior to your course to ensure that you are properly prepared.

## NOAA Mt. Baker-Snoqualmie National Forest Weekly Forecast

**PROVIDED EQUIPMENT:** Climbing rope, anchors, solid waste bags

**RENTALS:** Equipment that is available for rent through the AAI Equipment Shop is designated with a "

Rent" check box. These items may be rented on the first morning of your course during your rendezvous. It is possible to reserve rentals ahead of time, but due to an extensive inventory, not necessary. Please call the shop if you have unusual sizing issues (either large or small), as those items are limited.

Underlined items in this form are hyperlinked to examples available in our Equipment Shop. Don't forget that AAI climbers receive a 15% discount off full-price items purchased through our gear shop!

## Call or E-mail the Equipment Shop for Advice on 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 Email: <a href="mailto:shop@AlpineInstitute.com">shop@AlpineInstitute.com</a>
Equipment Shop Website: Shop.AlpineInstitute.com

Clothing	Packing Checklist
<b>Beanie/Toque</b> Wool or synthetic, must fit under helmet. Easily replaced with hooded layers after early season.	☐ Own ☐ Buy
Sun Hat Preferred to fit under helmet.	☐ Own ☐ Buy
<b>Buff/Neck Gaiter</b> Look for one that is UPF rated. Brighter colors work better for warmer conditions and darker colors for colder conditions.	☐ Own ☐ Buy
Glacier Glasses These are mandatory. Look for a pair that fits well and has side shields. The lenses should be dark enough to not let more than 10% of visible light through. Photochromic (variable tint) lenses are more expensive but are usable in a wider range of activities.	☐ Own ☐ Buy
★ NOTE: Those using contact lenses should also bring a pair of prescription glasses in the event that your contacts or solutions are lost or damaged by freezing. If you only use prescription glasses, we recommend "OTG" (over the glass) or "Frame-over" style sunglasses.	
Goggles Optional for early and late-season. These are used in high winds or heavy rain, and can serve as a backup to your glacier glasses. Look for UVA/UVB protection and a lighter lens is recommended for better visibility in flat light.	☐ Own ☐ Buy
<b>Headlamp</b> Bring extra batteries, or if it has a rechargeable battery, make sure and bring a charger. 200-350 Lumens is an ideal range.	☐ Own ☐ Buy

<b>Liner Glove</b> Thin, lightweight, wool or synthetic gloves. Size to fit snug but not too tight. Generally worn alone in temperatures above 25°F(-4°C) when precipitation is not present. UPF rated liner gloves are ideal for sun protection. Bring 1 pair.	☐ Own ☐ Buy
Work Glove These gloves are used for belaying, tying knots, rope management, etc. Dexterity and durability are key. These gloves provide slightly more insulation than a liner glove and are generally used in temps of 15°F to 30°F(-9°C to -1°C) while actively using your hands. Look for a comfortable snug fit favoring dexterity and a durable leather or synthetic palm. Water-resistant material is recommended because they dry out faster than waterproof gloves.	☐ Own ☐ Buy
Hard Shell Glove Waterproof and insulated gloves. If the glove lacks insulation then size it to fit a liner glove inside. Mainly worn in wet conditions, cold, or when not mobile.	Own Buy
Sports Bra Wool or synthetic, comfortable, active wear.	Own Buy
Base Layer Wool or synthetic shirt, long sleeves preferred, ideally a "sun hoody" with UPF 30+ sun protection.	☐ Own ☐ Buy
Active Insulation Layer Lightweight "gridded fleece" or lightweight synthetic insulated jacket. Hood preferred.	☐ Own ☐ Buy
Soft Shell Jacket or Windshirt A soft shell is a weather resistant, breathable, and stretchy freedom of movement piece. This piece is versatile in the sense of movement. It is often called an "action layer." It is weather resistant, meaning it can put up with light showers and wind. Also if it gets wet it dries fairly quickly. This enables you to not have to stop and put on another piece when the wind picks up or a light shower happens. Because it is water resistant, and not waterproof, it also breathes fairly well. This enables you to move without overheating, so you don't have to constantly stop to change out layers to regulate body temperature. They are also made of a stretchy material so there are no restrictions to your movement during activity. Put all those together and you have a pretty versatile layer, the Soft Shell. Hood preferred.  **Materials: Exolite, Matrix, Schoeller  **Example: Patagonia Houdini, Arc'teryx Squamish Hoody, Mountain Equipment Squall.	☐ Own ☐ Buy
Insulation Jacket  AKA the "puffy." Down or Synthetic. This piece is worn in cold conditions or when not moving. Hood preferred. If choosing Down, water-resistant Down treatment is preferred to help prevent matting and loss of insulating ability if the jacket gets wet.  ★ Weight: 350g-450g ideal weight.  ★ Example: Arc'teryx Atom LT, Rab Xenon, or similar.	☐ Own ☐ Buy
Hard Shell Jacket Non-insulated jacket with a waterproof and breathable membrane. Three layer construction is recommended. It must have a hood, ideally a helmet compatible hood. When sizing make sure it can fit over other layers.	☐ Own ☐ Buy

Undergarments Wool or synthetic.	☐ Own ☐ Buy
Base Layer Pant (aka "Long Johns") Wool or synthetic. Bring one for early or late-season conditions, optional for mid-season conditions (depending on the weather).	Own Buy
Soft Shell Pant Thin, weather-resistant, breathable, and stretchy.	☐ Own ☐ Buy
Hard Shell Pant Non-insulated, waterproof and breathable membrane. Full side zips are recommended. When sizing make sure to it is able to fit over a base layer and soft shell pants.	☐ Own ☐ Buy
Socks Wool or synthetic socks that are over the ankle height. Focus on getting insulation from the boot and using a lighter weight sock, instead of using a heavy weight sock for warmth. Wearing a "silk-weight" liner sock beneath your hiking sock can reduce friction on the skin directly and mitigate blister development. Bringing 2-3 pairs is recommended for this 6 day course. Two pairs mainly used while climbing that can be switched out if one gets wet. As well as having a 3rd pair to sleep in and as a backup.	☐ Own ☐ Buy
Approach Shoes Optional. Recommended to have for the 1 day of rock climbing. Also nice to have mid to late season if you would rather hike into camp in approach shoes rather than mountaineering boots. Early season there tends to still be a lot of snow on the ground and it is recommended to hike to camp in your boots.	☐ Own ☐ Buy
Mountaineering Boots  Must be stiff, crampon compatible, mountaineering boots. Synthetic or plastic double boots recommended prior to July 1st. After July 1st, plastic or synthetic double boots are not recommended.	☐ Own ☐ Buy ☐ Rent*
★ 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.	
Rock Shoes Focus on comfort, so they can be worn all day. Avoid technical or aggressive rock shoes with a downturn. Avoid curled toes when sizing.	☐ Own ☐ Buy ☐ Rent*
Gaiters Knee or calf height. Best used in early-season conditions. Optional for mid or late-season. Gaiters do help protect pants from crampon holes regardless of the season.	☐ Own ☐ Buy ☐ Rent*
Climbing	Packing Checklist
Ice Axe A straight shaft ice axe like the Petzl Glacier or Black Diamond Raven Pro is recommended. Adze is required. Please contact our Equipment Shop if you have any questions.	☐ Own ☐ Buy ☐ Rent*

Use the following tal recommended.	ole as a rough guide	on length. Ice axe leashes are r	not required and not		
	St	raight Shaft Axe			
	Personal Height	Recommended Length of Axe			
	5'8" or shorter	50-55cm			
	5'9"- 6'	55-60cm			
	6'1"-6'3"	60-65 cm			
	6'4" and up	65-68cm			
Harness Make sure the harne over your clothing la	,	and gear loops. When sizing ma multiple layers on.	ake sure it can fit	☐ Ow ☐ Buy ☐ Rer	′
<b>Helmet</b> Must be UIAA rated	for climbing.			☐ Ow ☐ Buy ☐ Rer	′
Crampons Must be steel cramp	ons with front points	s and compatible with your moun	taineering boots.	☐ Ow ☐ Buy ☐ Rer	′
	ver melting point. T	gth of 6mm nylon accessory conhis is used as a rappel backup ant properties.		☐ Ow ☐ Buy	
Belay Device Bring an auto-block Diamond ATC Guide	•	ccepts two ropes like the Petz	l Reverso or Black	☐ Ow ☐ Buy	
Carabiners Must be UIAA rated -Two large pear sha -Two non-locking with	ped munter-style loc	king carabiners.		☐ Ow ☐ Buy	
heavy pack and make	king stream crossing	mmended. These increase balan is, while also decreasing pressur ason, your poles should have a s	e on the knees	☐ Ow ☐ Buy ☐ Rer	′
•	•	oft, 5 ft. Available at AAI the more	ning of the course.	☐ Ow ☐ Buy	
	ommended pack size are a good way to s	e. Mountaineering specific packs have weight. Should also have tl		☐ Ow ☐ Buy ☐ Rer	′

Camping	Packing Checklist
Tent 3 season tents can be used if the rain flys goes all the way to the ground on all sides. A "bathtub" floor for the inner tent is also recommended. This means that the inner tent isn't all mesh but has water resistant floor material that scoops up from the floor for 4-12" before changing to mesh, like a bathtub. If there are any questions please consult our Equipment Shop to see if your tent is okay to use.  -Early-season: Double wall 4 season tent recommended.  -Mid-season: 4 season or 3 season tent.  -Late-season: 4 season tent recommended.  ★ NOTE: 4 season tents are available to rent at AAI the morning of the course. There is also the possibility to pair up with other students on your course and share a tent.	☐ Own ☐ Buy ☐ Rent*
Sleeping Bag Synthetic or Down. If you bring a synthetic bag bring one on the lower end of the temperature range since synthetic bags tend not to be as warm as down. If you sleep cold it is recommended that you bring a warmer bag than required for the seasonal conditions. If choosing Down, water-resistant Down treatment is preferred to help prevent matting and loss of insulating ability if the sleeping bag gets wet.  -Early-season: 0°F to 20°F (-18°C to -6°C) -Mid-season: 20°F to 30°F (-6°C to -1°C) -Late-season: 15°F to 20°F (-10°C to -6°C)	☐ Own ☐ Buy ☐ Rent*
Compression Stuff Sack For your sleeping bag. If it is a down bag, a waterproof compression sack is recommended.	☐ Own ☐ Buy
<ul> <li>Sleeping Pad</li> <li>□ Early-season: Bring two; one inflatable and one closed cell foam. The foam pad helps insulate from the snow and serves as a backup to the inflatable pad.</li> <li>□ Mid or late-season: One inflatable or closed cell foam pad.</li> </ul>	☐ Own ☐ Buy ☐ Rent*
Stove and Fuel Liquid fuel or canister stove. Fuel is available at AAI the morning of the course.	☐ Own ☐ Buy ☐ Rent*
Pots Bring one pot.  □ Early-season: Bring a bigger pot for melting snow; 1.5L to 2L  □ Mid or late-season: 0.5L to 1L  ★ NOTE: If you have a complete stove system like the Jetboil or MSR Reactor, and plan on eating out	☐ Own ☐ Buy
of your integrated pot, then you do not need to bring a pot.	
Utensils  Don't forget the official "most forgotten item ever;" the spoon, or spork.	☐ Own ☐ Buy
Bowl  □ Early-season: Bring a plastic bowl or mug, preferably with insulation. □ Mid or late-season: Bring a plastic bowl, insulation is not necessary.	☐ Own ☐ Buy

<b>Lighters</b> Bring one. You will have the opportunity to buy them the morning of the course.	☐ Own ☐ Buy
Hydration 3L capacity is recommended, though some people need more and some people need less.  Some people bring a bladder and a hard sided bottle. The bottle is an important backup to the bladder if it gets punctured. A hard-sided bottle may also double as a mug for hot water, though not every bottle is designed to hold boiling water.  For Camelbak style hydration bladders, bring a drinking tube insulator, as the tube can freeze up. Drinking tubes must also have a lock on the bite valve. If you choose to use this system, be aware that they require constant vigilance in order to avoid freezing. Some people are not very good at this. Blow the water out of the tube after every use and place the bite valve in the neck of your shirt to keep from freezing.  -Early-season: Bring more water carrying capacity (3L to 4L) to reduce the number of times you need to melt snow.	□ Own □ Buy
Water Purification Water purification tablets are recommended, they are available at the shop the morning of the course. Pills that take an hour or less to purify are recommended. Steripens are an acceptable alternative to purification tablets.   ★ NOTE: Pumps can be damaged by silt in the glacial water.	☐ Own ☐ Buy
Food You are responsible to bring your own food for the duration of the course. Please consult our meal planning page.  You will need four days and three nights worth of food. Assume your first breakfast and last dinner will be in Bellingham.	☐ Own☐ Buy
Other Essentials	Packing Checklist
Toothbrush and Toothpaste Travel size recommended.	☐ Own ☐ Buy
Hand Sanitizer and/or Wet Wipes Required. Used after going to the bathroom and before eating. Wet wipes can be used for the "mountain shower."	☐ Own ☐ Buy
Toilet Paper The provided solid waste bags have a small amount of toilet paper with them, but most people do not find this to be adequate. Estimate how much you'll need for a program of this length and place that in a plastic zip lock bag. An extra zip lock bag can be helpful for pack-out of used paper.	☐ Own ☐ Buy

<b>Sunscreen</b> SPF 30+, zinc based is preferred. Small travel size tubes are recommended so you can put them in a close by pocket for easy access.	Own Buy
Lip Balm Make sure it is SPF rated.	Own Buy
Personal First Aid Kit  Band aids Blister treatment Prescription drugs Ibuprofen etc. If you wear contacts make sure and have spares if you can't see without them.	☐ Own ☐ Buy
Repair Kit  ☐ Inflatable sleeping pad patch kit ☐ Duct tape (Can be wrapped around trekking poles or water bottle. Gorilla Tape tends to be the best brand for the mountains.) ☐ Zip ties ☐ 6-10 ft of 3mm accessory cord ☐ 2 Trash bags that are big enough to line the inside of your pack with.	☐ Own ☐ Buy
Other Optional Items  The items below are not required, although many are nice "luxury" items that can make your expedition more enjoyable. Remember that a few ounces here and there add up to extra pounds on your back and knees during your expedition.	Packing Checklist
<b>Belay Gloves</b> Lightweight and breathable glove with a durable leather palm. They protect your hands from rope burn, pinching, and sharp elements.	☐ Own ☐ Buy
Gaia Navigation App Optional Smartphone App.	☐ Own ☐ Buy
Map and Compass Compass must have declination adjustment.	☐ Own ☐ Buy
of your course.	
	Own Buy
of your course.  Altimeter Watch If you have one then bring it, it is a great tool to have in the backcountry, especially for	_

Menstruation Collection Cup There are many things to consider concerning backcountry menstruation.  Click here for more info	
Entertainment Books, games, cards, music player, kindle, ect. For evenings or rainy days in the tent.	☐ Own ☐ Buy
Portable Charging Device Phone charger, battery pack, or solar panel.	☐ Own ☐ Buy
Ear Plugs For defense against snoring and high winds.	☐ Own ☐ Buy
Insect Repellent Biting insects such as mosquitoes and blackflies can be prevalent during different times of the season depending upon conditions and location. This is a nice item to have just in case.	☐ Own ☐ Buy
Camera Phone cameras or small point-and-shoot cameras are preferred. SLR cameras are not recommended due to their size and bulk.	Own Buy
Comfortable Clothing and Footwear  Breathable footwear like flip-flops as well as some comfortable cotton clothing can be nice to change into after you get back to the van.	☐ Own ☐ Buy
Car Charger Consider bringing an extra battery pack as well, having a lot of people using car charger cables is difficult.	☐ Own ☐ Buy