This list is designed as a "worst case scenario", a trip with significant inclement weather. 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 is important to plan for the worst and hope for the best.

On the first day of your program, an AAI Guide and Equipment Specialist will work with you to refine your mountain kit. They will ensure that you bring exactly what is needed. It is acceptable to bring too much clothing and equipment to your initial meeting. It is also fine to bring things that you may have questions about. Any extra equipment can be left behind at our Gear Shop for safekeeping.

The Cascade climbing season is defined as May 1st through October 1st. This list will reference early, mid, and late-season conditions. They are defined as follows:

Early Season: May 1 - July 1

There is usually significant snow both on the ground as well as on the glaciers. You should expect to encounter deep, wet snow during the day and firm conditions at night. Overnight temps range from 15° to 40°F (-9° to 4°C). Daytime highs range from 35° to 70°F (1° to 21°C). Precipitation as snow or rain can be likely.

Mid Season: July 1 - September 1

Temps range from 40° to 50°F at night with occasional dips below freezing. Daytime temps often reach 70°F. You should expect the possibility of freezing temps above 9000ft on summit days throughout the summer. Though mid-season tends to be dryer, the possibility of rain is always there.

Late Season: September 1 - October 1

September is a varied month. Temps begin to drop both during the day and at night. Late in the month, you may encounter an increase in snow and rain.

Please be sure to check the forecast several days before your course to ensure that you are properly prepared. You can view the weather here:

NOAA Mt. Baker-Snoqualmie National Forest Weekly Forecast

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

**RENTALS:** Equipment available for rent through the AAI Equipment Shop is designated with a "Rent" check box. These items can be rented on the first day of your course.

You can call or email the Equipment Shop for advice on gear.

shop@alpineinstitute.com

360-671-1570

CLOTHING	
Beanie/Toque (Optional) Wool or synthetic. Must fit under a helmet. Easily replaced with hooded layers after the early season.	Buy Own
Sun Hat Ideally fits under a helmet. Ball caps with a button on top are NOT recommended. Visors or athletic hats are more comfortable, vent better, and are easier to clean and dry out.	Buy Own
Buff/Neck Gaiter  Look for one that is UPF-rated. Lighter colors are better for warm conditions and darker for colder conditions.	Buy Own
Glacier Glasses THESE ARE MANDATORY. Look for a pair that fits well and has side shields. The lenses should not let more than 12% of light through. Photochromic are more expensive, but usable in a wider range of light.  Examples: Julbo Spectron, Julbo Reactiv Performance, Julbo Reactiv High Mountain NOTE: Those using contacts should also bring a pair of prescription glasses in the event that your contacts or solution are lost or damaged. If you only use glasses, get a pair of over-the-glasses glacier glasses.	Buy Own
Headlamp Bring extra batteries or charger for rechargeable battery style. Ideal range is 200-350 lumens.  Examples: Petzl Swift RL, Petzl Actik	Buy Own
Liner Gloves Thin, lightweight, wool or synthetic gloves. Size to fit snug but not too tight. Phone-compatible fingertips and palm texture are nice to have. These could be worn alone in temps greater than 25°F when it is dry. UPF rated are ideal.  Examples: OR Vigor Sensor, The North Face Etip Grip	Buy Own
Midweight Softshell Glove  Bring 1 pair, 2 during the early season. These gloves are used for belaying, tying knots, rope management etc. Dexterity and durability are key. They provide slightly more insulation than a liner glove and are generally used in temps of 15°F to 30°F while actively using your hands. Comfortable but snug fit. Durable leather or synthetic palm. Water-resistant is recommended because they will dry faster.  Examples: Mountain Equipment Super Alpine, Rab Vapour-rise	Buy Own
Hard Shell Glove (Optional) Waterproof and insulated. If the glove lacks insulation, size it to fit a liner glove inside. Mainly used in wet conditions, cold temps, or when not moving.  Examples: Black Diamond Renegade, OR Highcamp.  NOTE: April-May courses are often much colder and may require more heavily insulated gloves like the Black Diamond Guide.	Buy Own
Sports Bra Wool or synthetic. Comfort is key. Avoid bras with adjusters and clasps, as they could get compressed by your pack straps. Racerbacks are a popular option.	Buy Own

CLOTHING CONTINUED	
Base Layer A lightweight, wool or synthetic sun hoody is ideal. UPF 30+ sun protection is best. UPF clothing works better than sunscreen.  Examples: Patagonia Capilene Cool Daily Hoody, OR Echo, Rab Pulse	Buy Own
Active Insulation Layer Lightweight "gridded fleece" or lightweight synthetic insulated jacket. Hood preferred. Active insulation weight - 40g/m2. Heavier insulation weight - 60-80g/m2  Examples: Patagonia R1, Patagonia Nano Air, Arc'Teryx Proton LT	Buy Own
Soft Shell Jacket or Windproof Jacket  A soft shell jacket is considered an "action layer." Its materials are designed to stretch and breathe while also maintaining wind and water resistance. This allows the user to leave this jacket on for a wide range of temps and conditions throughout the day without the hassle of constantly changing layers.  Windproof jackets are lightweight and packable, but lack the breathability and stretchy nature of the soft shell. Windproof jackets are ideal for blocking wind and light precipitation during low output activities.  Example Softshells: Black Diamond Alpine Start Hoody, Rab Borealis, Mountain Equipment Squall, Patagonia Houdini Air  Example Windproof: Patagonia Houdini, Arc'Teryx Squamish Hoody	☐ Buy ☐ Own
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.  Examples: Arc'Teryx Nuclei FL, Patagonia DAS Light, Patagonia Down Sweater, Arc'Teryx Cerium, Rab Alpine Series	Buy Own
Hardshell Jacket (Waterproof Rain Jacket)  Non-insulated jacket with a waterproof and breathable membrane. Three-layer construction is recommended. It must have a hood, ideally helmet-compatible. When sizing, make sure it can fit over other layers. Ski jackets are discouraged because they are usually not waterproof and have heavy insulation.  Look for Gore-Tex, eVent, Drilite, H2NO, Pertex Sheild.  Examples: Patagonia Torrentshell, Arc'Teryx Alpha AR, Mountain Equipment Lhotse	Buy Own Rent
Undergarments Wool or synthetic. Long, compression-style undergarments can help reduce inner thigh chafing.	Buy Own
Base Layer Pants (aka "Long Johns") Wool or synthetic. Bring 1 for early or late season. Optional for mid-season (depending on weather).  Examples: Patagonia Capilene midweight or thermal weight (Thermal is warmer)	Buy Own
Synthetic Hiking Pants Thin, weather-resistant, breathable, and stretchy. You will wear these a majority of the time.  Examples: Patagonia Altvia, Mountain Equipment Ibex, Arc'Teryx Gamma FL	Buy Own

CLOTHING CONTINUED	
Hard Shell Pants (Waterproof Rain Pants)  Non-insulated, waterproof, and breathable membrane. Full side zips are recommended.  Ideally has at least 1/4 length zipper from the bottom of the pant cuff in order to get pants on and off while wearing mountain boots. When sizing make sure it is able to fit over a base layer and soft shell pants. Insulated ski pants are strongly discouraged due to lack of waterproofness and heavy insulation.  Materials: Gore-Tex, eVent, Drilite, H2NO, Pertex Shield  Examples: Patagonia Torrentshell, Arc'Teryx Beta Pant	Buy Own Rent
Socks Wool or synthetic socks that are at least mid-calf height. Modern boots are designed to insulate your feet, so a thicker sock is not recommended as these tend to lead to blisters and moisture retention. Using a lighter sock allows for a more accurate boot fit. Wearing a "silk-weight" liner sock beneath your hiking sock can reduce friction on the skin and mitigate blister development.  Examples: Darn Tough Coolmax Lightweight	Buy Own
Hiking Shoe (Lightweight Boots or Trail Running Shoes) Lightweight boots can be appropriate for early season programs (mid-June or earlier) when the weather forecast is cold and/or wet. By mid-season many opt for trail running shoes as they are lighter and dry out faster than traditional hiking boots. Be aware that trail running shoes do not offer as much support when traveling with heavy packs. A high stack shoe like a Hoka is not recommended.  Example Trail Shoes: Topo Athletic Terraventure, Altra Lone Peak, La Sportiva Kaptiva, Salomon Sense Ride  Example Lightweight Boots: La Sportiva Trango Tech, Scarpa Zodiac	Buy Own
Mountaineering Boots  Must be stiff and crampon compatible mountaineering boots. Double boots recommended prior to mid-June. For courses after Mid-June, single boots should be used.  Example Double Boot: Scarpa Phantom 6000, La Sportiva G2SM  Example Single Boot: La Sportiva Nepal Cube, Scarpa Mont Blanc Pro  NOTE: We rent double plastic boots for our May/June courses and single boots for the rest of the season. There are many makes and models out there and not all of them are created equal. Please consult our Equipment Shop if you are uncertain about the acceptability of your chosen model.	☐ Buy ☐ Own ☐ Rent
Gaiters (Optional)  Knee or calf height. Best used in early season conditions. Optional for mid and late season.  Gaiters do help protect pants from crampon holes regardless of the season.  Examples: OR Crocodile	Buy Own Rent
Trekking Poles One is required, 2 are highly recommended. Poles help with balance while hiking with a heavy pack and increase security during stream crossings. They also decrease the pressure on your knees during steep descents. For early season, poles should have snow baskets.  Example: Black Diamond Expedition	Buy Own Rent

CAMPING	
Tent  3 season tents can be used if the rain fly goes all the way to the ground on all sides. A  "bathtub" floor for the inner test is also recommended. This means that the inner tent has a water-resistant floor material that scoops up from the floor 4-12" before changing to mesh.  If your tent does not have wind lines, an additional 6-10ft of 3mm accessory cord is needed for rigging your rainfly in a mountain environment. (You can rent a 4-season and it's possible to share if you would like).  -Early Season: Double wall 4-season tent recommended.  -Mid Season: 4-season or 3-season tent.  -Late Season: 4-season tent recommended.  Example 4-season: Hilleberg Unna, Black Diamond Eldorado  Example 3-season: Big Agnes Copper Spur, REI Half Dome	Buy Own Rent
Sleeping Bag Synthetic or down. If you bring a synthetic bag, bring one on the lower end of the temp range since synthetic bags tend not to be as warm as down. If you sleep cold, bring a warmer bag than required. If choosing down, water-resistant down treatment is preferred to help prevent loss of insulating properties if the bag gets wet.  • Early Season: 0° to 20°F (-18°to 6°C)  • Mid Season: 20° to 30°F (-6° to -1°C)  • Late Season: 15° to 20°F (-10° to -6°C)  Examples: Mountain Equipment Fireflash, Western Mountaineering Alpinilite, Rab Mythic Ultra 180	☐ Buy ☐ Own ☐ Rent
<ul> <li>Sleeping Pad</li> <li>Early Season: Bring 2. One inflatable and 1 closed-cell foam. The foam pad helps insulate from the snow and serves as a backup to the inflatable pad.</li> <li>Mid/Late Season: One inflatable pad or closed cell foam pad.</li> <li>Examples: ThermaRest XTherm</li> </ul>	Buy Own Rent
Compression Stuff Sack For your sleeping bag. If it is a down bag, a waterproof compression sack is recommended.	Buy Own
Stove and Fuel Liquid fuel or canister stove. Fuel is available at our Equipment Shop the morning of the course.  NOTE: Many people choose to share stoves, fuel, and tents to decrease weight. However, some people prefer to camp in their own tents and use their own stoves. This can be determined on the morning of the first day of your program.  Examples: Soto Windmaster, MSR Windburner	Buy Own Rent
<b>Utensils</b> Don't forget the official "most forgotten item" - The spoon or spork. Long-handled spoons make stirring hot liquids safer and metal ones tend not to break as easily in cold temps.	Buy Own

CAMPING CONTINUED	
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<ul> <li>Pots</li> <li>Bring 1 pot.</li> <li>Early Season: Bring a bigger pot for melting snow, 1.5L to 2L</li> <li>Mid/Late Season: 0.5L to 1L</li> <li>NOTE: If you have a complete stove system like the Jetboil or MSR Reactor and plan on eating out of your integrated pot, then you do not need to bring another pot.</li> </ul>	Buy Own Rent
Utensils  Don't forget the official "most forgotten item" - The spoon or spork. Long-handled spoons make stirring hot liquids safer and metal ones tend not to break as easily in cold temps.	
<ul> <li>Early Season: Bring a plastic bowl or mug, preferably with insulation</li> <li>Mid/Late Season: Bring a plastic bowl, insulation not necessary</li> <li>NOTE: If you have a Jetboil or MSR Reactor type stove and plan on eating out of your integrated pot, then you don't need to bring a bowl. The same applies if you plan on using commercially packaged dehydrated or freeze-dried meals.</li> </ul>	Buy Own
Lighters Bring 2. You will have the opportunity to buy them the morning of the course.	Buy
Hydration  A 3L capacity is recommended, though some people need more. A common approach is to bring a 2-3L bladder and a 1L hard-sided bottle. The bottle is important as a 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 it requires constant vigilance to avoid freezing. Be prepared to have to pull your bladder out of your pack to drink, as hoses freezing is a persistent issue on programs.  • Early Season: Bring more water carrying capacity, usually in the form of bladders (4 to 8L) to reduce the number of times you need to melt snow.  Examples: Nalgene 32oz bottle, Hydrapak Seeker 2-3L, MSR Dromedary 4-8L	Buy Own
Food You are responsible for your own food for the duration of the course. Please consult our meal planning page. You should arrive on the first morning of your course with at least 2 days of backcountry food.	Buy Own

CAMPING CONTINUED	
Water Purification Water purification of some form is required. The popular tabs that our guides use, Aquatabs, are available at the Equipment 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. It is strongly encouraged to use the brand Aquatabs, as they work the fastest and have the least amount of flavor once administered.  NOTE: Pumps can be damaged by silt in the glacial water and can easily freeze at night and crack. However, many of our guides are finding success using some of the integrated pump/bladders like the BeFree and Quickdraw  Examples: Aquatabs, Steripen, Katadyn BeFree, Platypus Quickdraw	Buy Own
OTHER ESSENTIALS	
Toothbrush and Toothpaste Travel size recommended	Buy Own
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."	Buy Own
Alarm Clock You will be responsible for waking up at certain times throughout the program. While your guide can sometimes be your alarm, there are often situations where tents are far apart. Be sure if you use your phone as an alarm that you have enough backup battery to accommodate for this. If you plan to use a watch, be sure your alarm is loud enough to work for you.	☐ Buy ☐ Own
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. If you plan to use wet wipes, be wary of scented or exfoliating types as these can be an irritant for some people.	☐ Buy ☐ Own
Pee Cloth (Optional) A reusable, antimicrobial pee cloth, used in the place of toilet paper or wet wipes.  Example: Kula Cloth	Buy Own
Urination Device (Optional)  Pee funnels such as the GoGirl or Freshette. Rigid pee funnels hold their shape better. Used in conjunction with a pee bottle or while on a rope team. These can help mitigate the need to squat. Example: Freshette	Buy Own
Menstrual Cup (Optional) There are many things to consider about backcountry menstruation, click on the link for more information.  Examples: Diva cup, Saalt, Lunette	Buy Own

ESSENTIALS CONTINUED	
Sunscreen At least an SPF of 30+, zinc-based is preferred. Small travel-size tubes are recommended so you can put them in a close-by pocket for easy access.  Examples: ZBlok 45, 2oz containers are a nice size.	Buy Own
Lip Balm  Make sure if is SPF Rated.  Example: Blistex Gold Five Star Protection SPF 30	Buy Own
<ul> <li>Personal First Aid Kit</li> <li>Band aids</li> <li>Blister Treatment</li> <li>Prescription Drugs</li> <li>Ibuprofen, etc</li> <li>If you wear contacts, make sure you have spares if you can't see without them</li> </ul>	Buy Own
<ul> <li>Repair Kit</li> <li>Inflatable sleeping pad patch kit</li> <li>Duct tape (can be wrapped around trekking pole or water bottle. Gorilla Tape tends to be the best brand for the mountains).</li> <li>Zip ties</li> <li>6-10ft of 3mm accessory cord</li> <li>2 trash bags that are big enough to line the inside of your pack with</li> </ul>	☐ Buy ☐ Own
OTHER OPTIONAL ITEMS	
These items 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.	Buy Own
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These items 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.  Gaia Navigation App Optional smartphone app. Please have the Mt. Baker (all aspects) maps downloaded prior to the start of your course.  Map and Compass Map should be of Mt. Baker Area (Preferably Green Trails Maps #13SX). The compass must have a declination adjustment.  NOTE: All 2 items are available together in a bundle or sold separately at the Equipment Shop	Own Buy Own Buy Buy

OTHER ITEMS CONTINUED	
Goggles (Optional) Optional for April to early May and not needed later in the 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. Do not plan to use goggles as sunglasses over your prescription glasses, as it is difficult to see and manage your harness and equipment with goggles on. We recommend the "over the glasses" sunglasses from the company Cocoon.	Buy Own
Pee Bottle Used at night or when the weather is poor so you don't have to get out of your tent. A 32oz or larger capacity is strongly recommended. Many guides use a bladder instead of a bottle to increase capacity.  Example: Hydrapak Seeker 2L, Collapsible 48oz Nalgene	Buy Own
Entertainment Books, games, cards, music player, kindle, etc. For evenings or rainy days in the tent.	Buy Own
Portable Charging Device Phone charger, battery pack, or solar panel. You are responsible for your alarm clock each morning. If you are going to use your phone, be sure you have enough power to accommodate this.  NOTE: Solar panels should only be used to charge battery packs. Battery packs should be used to charge devices. Inappropriate use of a solar charger could lead to the depletion of a device's power.	Buy Own
Ear Plugs For defense against snoring and high winds.	Buy Own
Insect Repellent Biting insects such as mosquitoes and blackflies can be prevalent during different times of the season depending on conditions and location. This is a nice item to have just in case. Sometimes even a headnet is a nice item to have.	Buy Own
Camera Phone cameras or small point-and-shoot cameras are preferred. SLR cameras are not recommended due to their size and bulk.	Buy Own
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.	Buy
Car Charger  Consider bringing an extra battery pack as well, having a lot of people using car charger cables is difficult.	Buy Own