

●Field

Item	Specification		Notes
Shell jacket	Hard Shell	1	A solid hood
Shell pants	Hardshells	1	Boots that can be covered
Underwear	Wool, Synthetic fiber	1	
Intermediate garment	Wool, Synthetic fiber	1	
Balaclava		1	
Knit hats		1	
Warm clothes	Down, Synthetic Cotton	1	For standstill work such as pit work
Gloves		2~3	Thin and thick
Socks	Wool	1	Medium and thick
Sunglasses		1	
Goggles		1	
Helmets	For Riding	1	
Ski or Splitboard		1	
Pole		1 pair	
Boots		1 pair	
Skin		1 pair	Be careful not to let the glue change
Ski crampon		1 pair	Required for snowboarders
Tsvelt	For 2 people	1	
Avalanche transceiver	3 antennas	1	1 set of spare batteries
Probe	> 2.7m	1	
Shovel		1	
Snow saw		1	
Wax		1	
Scrapers		1	
Topographic map	1/25000	1 set	"Hakuba-Cho", "Shirouma-dake"
Compass		1	Plate type
Altimeter	Wristwatch	1	
Thermos	500-800cc	1	
Headlamp		1	Spare batteries included
First Aid Kit		1 set	
Repair gear		1 set	Duct tape, screws, screwdriver, incilock, etc.
Emergency rations		1 set	For 1 night
Notes, writing utensils		1 set	
Backpack		1	All equipment must fit without problems
Waterproof stuff bag			

Optional	Specification		Notes
Pickelrel	Lightweight for skiing	1	Snowboarders, depending on where you're going.
Small kochelle		1	For bivouac
Gas stove	Fuel included	1 set	For bivouac
Lighter		1	Waterproof.
Avalanche airbag		1	Must be able to store all equipment.
Terrain map	1/25000		If you have it, "Uchu", "Amakazari"
Over mittens	Made of Gore-Tex	1	2 to 3 fingers type
Sled kits		1	For emergency transport
Harnesses	For ski mountaineering	1	

● Snow Study Kit

Item		Notes
Shovel	1	Flat blade shape
Probe	1	> 2.7m
Snow saw	1	Blade length > 35 cm
Folding ruler	1	Foldable fiber scale. 2m
Thermometer	1~2	Stem-type, Digital thermometer recommended
Snow crystal screen	1	Plate for crystal observation
Loupe	1	8X - 15X
Inclinometer	1	Smartphone app is acceptable.
Compass	1	Plate type
GPS	1	Smartphone app is acceptable.
Fieldbook	1	It will be sent with the student manual.
Pencil	1~2	Pencil lead should be H or 2H, not HB or other soft lead.
Gloves		Gloves must be of a thickness and material that does not transfer body heat to the snow. Rubber gloves are not acceptable.

● Classroom

Item		Notes
Writing materials		Marker pens or colored pens are also useful
Notebooks		
Calculators	1	Smart phone can be substituted
Ruler	1	
Student Manual		Send to students
Guidelines		Send to students
Reference book		