

Equipment Requirements – OPP Outings

- **You MUST be equipped with ALL of the required items for the outing.** If you arrive without acceptable versions of ALL of the required items, you will not be allowed to participate.
- Your equipment must be properly fitted and in good working order.
- **Expect a very thorough gear check, during which you will need to show the instructor every required item.**
- Items left in the vehicles (or in the gear room) are NOT secure, and are NOT insured by the University! Do NOT leave keys, wallets or anything of significant value in the vehicles!
- Each participant will be expected to carry some group gear not itemized below, so please leave room in your pack.

Please note the following about the (*) and (**), and symbols:

(*) Layers must be wool or synthetic fabrics. NO COTTON!

(**) The O.P.P. may be able to provide these items; check with the instructor to confirm availability.

REQUIRED ITEMS

Backpacking

- | | |
|---|---|
| 1. Boots - to instructor's specifications | 17. Map(s) - must be in plastic bag such as a "Ziploc" |
| 2. Socks - two pair to wear - 2 wool or a liner and a wool (*) | 18. Compass (**) |
| 3. Socks - complete change of above sock system (*) | 19. Headlamp or flashlight – LED recommended w/alkaline or hybrid NiMh rechargeable batteries |
| 4. Insulating layer for the legs - long pants or long underwear (*) | 20. Water bottle(s) - 2-liter capacity minimum - bring full |
| 5. Base layer for the top – short-sleeve okay (*) | 21. Water purification tablets or filter/purifier |
| 6. Lightweight long-sleeved shirt or sweater (*) | 22. Food - 2 breakfasts, 3 lunches, 2 dinners & snacks |
| 7. Thick sweater, fleece jacket, vest, etc. (*) | 23. Cup and/or bowl, spoon |
| 8. Raingear - substantial fabric, hood to ankles (**) | 24. Pocketknife |
| 9. Insulating hat - must cover the ears (*) | 25. Sleeping bag - 2" or greater top layer thickness |
| 10. Warm gloves and/or mittens - two pairs (*) | 26. Sleeping pad - no air mattresses or open cell pads (**) |
| 11. Sunglasses - dark with full coverage | 27. Large pack (**) |
| 12. Sunscreen – spf 30 or higher recommended | <i>Participants must arrange for shared access to:</i> |
| 13. First aid kit - at least band aids, moleskin | 28. Stove (**) & fuel – see below for required amount |
| 14. Matches or lighter - waterproof/windproof | 29. Shelter – tent, tarp or megamid (**) w/stakes (sand) |
| 15. Nylon cord - 25' or more of 1/8" | 30. Cooking pot(s), pot grips and utensils (**) |
| 16. Whistle - loud! | |

Backcountry Navigation - in addition to the above Backpacking requirements:

- | | |
|---|---|
| 1. Gaiters (high type) (**) | 4. Emergency shelter - space blanket, tube tent, tarp, etc. |
| 2. One additional layer for the legs (*) | 5. Large day pack – or use your backpack |
| 3. One additional torso layer if you get cold easily, or substitute a parka for an above torso layer. (*) | 6. Long sling and locking carabiner (**) |
| | 7. Orange pack cover and vest (**) |

Principles of Outdoor Leadership - in addition to the above Backpacking requirements:

- | | |
|--|-------------------|
| 1. Backcountry Navigation items 1, 2, 3, 4 and 5 | 2. Safety glasses |
|--|-------------------|

Snow Camping - in addition to the above Backpacking requirements:

- | | |
|---|---|
| 1. Backcountry Navigation items 1, 2 & 4 | 4. Neck covering – balaclava, scarf, etc. (*) |
| 2. Warm parka or vest to provide 1" of torso insulation | 5. Snowshoes (**)- poles optional |
| 3. One more warm hand layer – 1 pr. mittens required for outing | 6. Stove pad |

Avalanche Safety - in addition to the above Backpacking AND Snow Camping requirements:

- | | |
|---------------------|-------------------------|
| 1. Snow shovel (**) | 2. Avalanche probe (**) |
|---------------------|-------------------------|

Mountaineering & Ice Climbing - in addition to the above Backpacking requirements:

- | | |
|--|--|
| 1. Backcountry Navigation items 1, 2, 3, 4 and 5 | 3. Side shields for sunglasses and sun hat |
| 2. Snow Camping items 3 & 4 | 4. One more pair of socks |

The following technical climbing gear:

MTN - Seat harness, chest harness sling, crampons, ice ax, helmet, 2 prusiks (1 l. & 1 s.) 4 biners (2 locking), 1 long sling or cord
 ICE - Seat harness, crampons, ice ax, helmet, 5 carabiners (2 L, 2 NL & 1 P), 1 long sling, 1 cordelette, daisy chain, pulley

Backcountry Survival - in addition to the above Backpacking requirements:

- | | |
|--|--|
| 1. Backcountry Navigation items 1 and 2 | 4. Food – two non-cooking meals (one per night) |
| 2. Snowcamping 2 and 4 | 5. 3 or 4 feet of duct tape if using 'mylar' space blanket |
| 3. Optional Items 17, 20, 21, 22, 25, 26 (2 min. 4 rec.), 30, 37, 41 | 6. 2 gallons of water per person |
| 7. Recommended: 1 extra set of base layers; optional items 32, 34, 52 and 53 | |

OUTING FUEL REQUIREMENTS

- 2 full days of stove use or cooking – 2 dinners and 2 breakfasts -

Canister Stove

- A. BPK & POL: one small canister per person (2 oz. per person/day)
- B. BCN & ICE: one large canister per person (4 oz. per person/day)
- C. MTN: one large canister per person plus one extra small canister/group of 2 (5 oz. per person/day)
- D. SNC & AVAL: one large and one small canister per person (6 oz. per person/day)

White Gas Stove

- 4 oz./person/day
- 5 oz./person/day
- 6 oz./person/day
- 8 oz./person/day

NOTE: We recommend that you bring a little extra fuel for use in an emergency, regardless of the fuel type.

OPTIONAL ITEMS

Some items may be required at the instructor's discretion.

Inner and Outer Clothing Layers

- | | | | |
|-------------------------------|----------------------------------|---------------------|------------------------|
| 01 Liner socks | 02 Plastic bags (for feet) | 03 Camp shoes | 04 NEOS overboots (**) |
| 05 Gaiters (high or low) (**) | 06 Additional head to toe layers | 07 Wind shell | 08 Mitten shells |
| 09 Sun hat | 10 Clothes, food, water for van | 11 Shorts & t-shirt | |

Outer Wear/Protection

- | | | | |
|----------------|--|-----------------|-----------------|
| 12 Umbrella | 13 Pack liner (e.g. 45 gal. garbage bag) | 14 Pack cover | 15 Sit pad (**) |
| 16 Ski goggles | 17 Daypack | 18 Compass cord | |

Safety and Survival

- | | | | |
|------------------------------|------------------------------|------------------------|-------------------------|
| 19 Candles (votive are best) | 20 Nylon cord - another 25') | 21 Firestarter | 22 Emergency shelter |
| 23 Glowstick (**) | 24 Reflective flagging (**) | 25 Metal cup/small pot | 26 Large garbage bag(s) |

Health and Hygiene

- | | | | |
|----------------------|--------------------------------|-------------------|--------------------------|
| 27 Bandana/washcloth | 28 Toilet paper | 29 Hand sanitizer | 30 Medications (Anakit?) |
| 31 Hand cream | 32 Catalytic hand/foot warmers | 33 Lip balm | 34 Insect repellent |

Tools and Technology

- | | | | |
|-------------------------------|---------------------------------|-----------------------|--------------------|
| 35 Repair kits (tools, stove) | 36 Camera w/extra media | 37 2nd light | 38 Extra batteries |
| 39 Binoculars | 40 Hand lens – at least 8 power | 41 Watch (with alarm) | 42 Hiking poles |

Hydration/Kitchen

- | | | | |
|---------------------|--------------|------------|-----------------------|
| 43 Hydration system | 44 Stove pad | 45 Thermos | 46 Ladle (snow scoop) |
|---------------------|--------------|------------|-----------------------|

Accessories and Extras

- | | | | |
|---------------------|-----------------------------|--------------|---------------------|
| 47 Notebook, pencil | 48 Reading materials, notes | 49 Money | 50 Driver's license |
| 51 Small wisk broom | 52 Work gloves | 53 Pot grips | |

Minimum Gear Requirements for Excursions Away From Camp

On some outings, you may be required to pack the following kit for excursions farther than ¼ mile away from camp.

A. TO FIND YOUR WAY

- Topographic map to the instructor's specifications
- Orienteering compass
- Headlamp or flashlight – LED light recommended with fresh batteries

B. FOR PROTECTION FROM THE ELEMENTS

- Emergency shelter -poncho, tarp, bivy sack, space blanket, etc.
- 25' of 1/8" parachute cord to erect/stabilize shelter
- Knife to cut cord or help with building a fire
- Rain gear - head to toe
- Insulating layers in addition to what is worn for traveling comfort (synthetic or wool – no cotton):
 - Leg layer, torso layer (parka, vest, or thick fleece jacket), warm hat (must cover ears), gloves or mittens
- Sleeping pad or sit pad
- Windproof/waterproof matches/ fire starting device and fire starter fuel

C. FOR SUSTENANCE/HEALTH

- Food (for energy/heat) AND water (1 liter minimum)

D. IN CASE OF AN EMERGENCY

- Signaling and marking devices (whistle required; signaling mirror a good addition to kit)
- First aid kit (including personal medications and EpiPen if sensitive to insect stings, etc.)

E. RECOMMENDED – some items may be required at discretion of instructor

- Change of socks, an extra torso layer, sunglasses & sunscreen, metal cup or small pot, glowstick, camera, binoculars