



ultralight backpacking

course 319 shane watts

subtitle: before you drill holes in your toothbrush, cut-off your pack straps, or attempt to use a 2 ounce disposable rain poncho for a tent, kindly consider the following...

agenda



definitions & rationale

ultralight principles

the big three four

what's in my pack?

tips & tricks

gear recommendations

resources



definitions



base weight: full pack weight minus food, water, fuel

lightweight: base weight ≤ 20 lbs

ultralight: base weight ≤ 10 lbs

super ultralight: base weight ≤ 5 lbs

stupid light: not taking gear and supplies that are necessary given the conditions

why ultralight?



more comfortable focus on the journey travel faster travel farther fewer injuries age skills + planning emphasis no-tear 50 milers

why not ultralight?



price durability safety comfort fringe



7 ultralight principles

- 1. know what's in your pack—take inventory
- 2. knowledge and skills over gear
- 3. take only what you need
- 4. take lighter, smaller stuff
- 5. take multipurpose gear
- 6. limit contingencies
- 7. keep learning

1. know what's in your pack

- o take inventory
 - ✓ count
 - ✓ weight
 - ✓ volume
 - ✓ condition
- o make better purchasing decisions
- o use checklists
- o quick and easy storage system



2. knowledge & skills over gear

- o knowledge + skills = less fear = less gear
 - ✓ "don't pack your fears."
- o minimize dependencies
- o learn your way to ultralight faster than buy your way to ultralight
- o planning increases knowledge
 - conditions, distances, terrain, water sources, etc.



3. take only what you need

- o know what you need
- o varies from trip to trip
- o mindful reduction
- o reduce and repackage
- o portion control

4. take lighter, smaller stuff

- o focus on core function
- o lightest item that does the job
- o smallest item that does the job



5. take multi-purpose stuff

- o one item, two or more uses
- o don't take it too far





6. limit contingencies



- o weigh probabilities
 - ✓ pack for the probable, plan for the possible
- o better planning
- o you and your companions are the biggest variable



what if....

just in case!

7. keep learning

- o experiment and adapt
- o Ask questions
 - ✓ what didn't I use?
 - ✓ what worked, what didn't?
- o full pack day hikes
- o backyard test runs
- o read and watch videos





packing light is a skill, one that often develops with time, experience, and lots of mistakes. experience will teach you how to identify the unnecessary weight and the gear you simply cannot (and should not) do without.



the big three four











shelter

sleep system

backpack

footwear

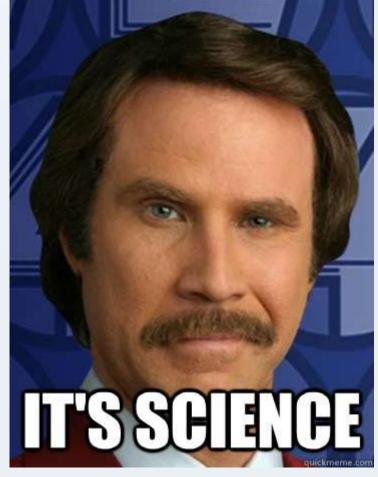
why not boots?



weight (actual and biomechanical)

comfort no more blisters water management support vs. agility cost maintenance multi-purpose





the big three four











item	traditional weight	UL weight	weight savings
shelter (2 person)	4-8 lbs	2-3 lbs	2-5 lbs
sleep system	4-8 lbs	1.5-3 lbs	2.5-5 lbs
backpack	3-8 lbs	1-2 lbs	2-6 lbs
footwear	3-4 lbs (15-20 lbs)	1 lbs (5 lbs)	2-3 lbs (10-15 lbs)
TOTAL	14-28 lbs (15-20 lbs)	5.5-8 lbs (5 lbs)	8.5-20 lbs (10-15 lbs)



my base packing checklist



Clothing		
☐ 1 Rain shell		
☐ Lightweight rain gloves/mittens		
☐ 1 Mid-layer insulation		
☐ 1 Long sleeve trekking shirt		
☐ 1 Shorts -OR- pants		
□ 2 Underwear (wearing one)		
☐ 2-3 Pairs socks (wearing one)		
□ 1 Trail running/hiking shoes		
☐ 1 Running gaiters		
☐ 1 Long sleeve sleeping top		
☐ 1 Sleeping bottom		
☐ 1 Sleeping beanie/cap		
☐ 1 Hat with a brim		
☐ 1 Bandana		
Sleep System		
☐ 1 Sleeping bag		
☐ 1 Sleeping pad		

Personal Gear
☐ 1 Backpack
☐ 2 dry bags -OR- 1 pack liner
☐ 2 Water containers
☐ 1 Hygiene kit (in Ziploc bag)
☐ 1 Small folding knife
☐ 1 Headlamp
☐ 1 Compass*
☐ 1 Map*
☐ 1 Whistle
☐ 1 First aid kit (in Ziploc bag)
☐ 1 Head net
☐ 1 Sun screen
☐ 2 Fire starters
☐ 1 Spoon
☐ 2-5 gallon Ziploc freezer bags
☐ Trekking poles

Sharable Gear		
☐ Tent*		
☐ Stove*		
☐ Pot/mug*		
☐ Fuel*		
☐ Water filter -OR- tablets*		
☐ Bear bag*		
☐ Cord (50 ft)*		
☐ Food*		

Red = On your body, not in your pack



tips & tricks

top tips

- ♦ buy a scale—weigh everything!
- → ask "what didn't I use?" at the end of each trip
- experiment and learn on short trips

food & water

- carry less water (know your water sources)
- → replace Nalgenes with 1 liter plastic bottles
- → drink-up at water sources
- ♦ don't cook (loose the stove and fuel)
- ♦ choose calorie-dense foods
- → replace water filter with tablets
- ♦ snacks in labeled ziplocs
- ♦ remove packaging



clothing & gear

- → single set of pants/shirt
- → replace pots with a mug
- ♦ short sleeping pad
- ♦ small, custom first aid kit
- ❖ use clothes bag for a pillow
- → castile soap for toothpaste, washing everything

other ultralight hacks

- ♦ limit amounts—do you need the whole thing?
- ♦ leave deodorant at home
- ♦ pack fresh (not extra) batteries
- ♦ leave unnecessary bags
- ♦ layer proactively to sweat less
- ♦ share the load
- → dry/shake out wet gear







tarptent

notch





pick	shelter	sleeps	material	weight	price
best buy	<u>tarptent</u> - notch	1	silnylon	1 lb 11 oz	\$314
high-end choice	<u>zpacks</u> – duplex 2	2	DCF	1 lb 5 oz	\$599
honorable mention	gossamer gear – the two	2	silnylon	1 lb 13 oz	\$389
honorable mention	<u>tarptent</u> – stratospire 2	2	silnylon	2 lb 14 oz	\$349
best hammock	hennessy hammock - hyperlite	1	nylon/silnylon	1 lb 12 oz	\$280

















pick	pack	volume	weight	price
best overall	gossamer gear – gorilla 40	40L	1 lb 14 oz	\$215
high-end choice	<u>zpacks</u> - arc blast	55L	1 lb 5 oz	\$325+
best buy	osprey - exos 48	48L	2 lbs 8 oz	\$190
honorable mention	hyperlight mountain gear – 2400 southwest	50L	1 lbs 14 oz	\$310
honorable mention	<u>ula</u> - circuit	68L	2 lbs 9 oz	\$235



pick	sleeping bag/quilt	EN rating	weight	price
best overall	<u>katabatic gear</u> – flex 22	22°	1 lb 8 oz	\$350
high-end choice	western mountaineering – ultralight 20	20°	1 lb 13 oz	\$500
best buy	enlightened equipment – enigma 20	20°	1 lb 3 oz	\$280
honorable mention	<u>zpacks</u> – solo down 20	20°	1 lb 4 oz	\$359
honorable mention	<u>rei</u> – magma 10	10°	1 lb 14 oz	\$310
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pick	pad	r-value	weight	price
best overall	sea to summit - ultralight insulated mat	3.3	16 oz	\$100
high-end choice	therm-a-rest - neoair xlite sleeping pad	3.2	12 oz	\$170
best buy	therm-a-rest - z lite sol mattress	2.6	8.8 oz	\$40
honorable mention	outdoorsmanlab - ultralight sleeping pad	1.3	16 oz	\$42







pick	shoes	weight	price
best overall	<u>altra</u> – lone peak	11 oz	\$120
another great option	<u>brooks</u> – Cascadia 12	12.1 oz	\$130
best boot holdout option	<u>altra</u> – lone peak mid mesh	12.5 oz	\$130
comparative option	asolo - TPS 520 GV evo	66 oz	\$315







outdoor research

pick	jacket	barrier	weight	price
best overall	<u>zpacks</u> - vertice	3 layer ventum-wpb	6.2 oz	\$300
high-end choice	hyperlite mountain gear – the shell	2 layer event + dcf	5.8 oz	\$450
honorable mention	<u>patagonia</u> – storm racer	3 layer h2no	6.2 oz	\$250
honorable mention	<u>outdoor research</u> – helium II	2.5 layer pertex shield+	6.2 oz	\$160
best buy	<u>rei</u> – co-op rain jacket	2.5 layer laminate	9.7 oz	\$70

snow peak
litemax











pick	stove	type	weight	price
best overall	msr – pocket rocket 2	canister	2.6 oz	\$45
high-end choice	snow peak - litemax	canister	1.9 oz	\$55
best buy	<u>brs</u> - 3000t ultralight	canister	0.9 oz	\$16
comparative option	<u>jetboil</u> - minimo	canister system	14 oz	\$135

note: alcohol stoves are not allowed on scout trips and so are not featured or recommended here.

katadyn micropur tablets





hydroblu versa flow





pick	stove	weight	price
best overall	katadyn – micropur tablets	.5 oz	\$40
best group filter	Katadyn - hiker	11 oz	\$55
best buy	hydroblu – versa flow	2 oz	\$19

my favorite ultralight retailers*



- ◆ gossamer gear
- **♦** zpacks
- ♦ hyperlite mountain gear
- ♦ ula equipment
- ◆ taptent
- ♦ enlightened equipment
- ♦ katabatic gear
- → mountain laurel designs

^{*} this is by no means an exhaustive list.

resources





→ outdoorgearlab.com



♦ backpackinglight.com



→ adventurealen.com



♦ backpackingnorth.com



→ darwinonthetrail.com







thank you!

