



Cayesh & Diran, *West Tiger* 2013. Navigating in limited visibility.

Pre Trip Plan: Wilderness Navigation Workshop

Most trips into the backcountry are safer and more enjoyable with thorough pre-trip work, including navigation. Your instructors expect you to complete some tasks before the Workshop. Complete and bring this hard copy. You'll have different planning tasks before the Fieldtrip.

Navigation Tools Checklist

- USGS Index & Baring 1:24000 maps w/ your name in upper right corner. Available that night at bookstore
- One gallon Ziploc bag (for your maps)
- Baseplate, declination adjustable compass from recommended list. Tape on your name. Attach lanyard.
- Wilderness Navigation 3rd Ed 2015, Burns & Burns. Read at least Ch 1-5.
- Headlamp w fresh batteries—the light is not good for close work
- 2 sharpened #2 pencils or mechanical pencil
- "Pink Pearl" type eraser
- Optional small magnifier and/or reading glasses
- Optional SmartPhone to later load free (or nearly) navigation apps
- Optional GPS tool or app (if already in hand)
- Optional Altimeter or app (if already in hand)

Find and Do

- Find your compass users manual and learn how to adjust the declination. It may be a tiny brass set screw or it may be a tool-less adjustment. (p34 Burns).
- In dim light, try your headlamp for map work. (Hint: Light is not ideal at workshop or fieldtrip.)

- Set your declination for Seattle area, Fall 2016 to 16 degrees East by following your compass instructions. Use a tiny set screw with your tiny screwdriver, or follow the instructions for a tool-less adjustment (p48 Burns). Big trouble? We'll help you upon arrival at the workshop.
- Find the tiny, blue UTM tick marks around the edges of your Baring map (p24-26 Burns). You'll connect them upon arrival.

Work these 8 exercises

»Burns & Burns Appendix, p178-179 3rd Ed; p128-129 2nd Ed.«

1. Geographic features: A _____ D _____
H _____ K _____ L _____ P _____
U _____ V _____ Z _____
 2. Distance: _____Miles _____Feet _____Meters
 3. Distance: _____Miles _____Feet _____Meters
 4. Elev: G _____ F _____ E _____ B _____ W _____
- »For help, see p109-112, Burns & Burns 3rd Ed; p74-77 2nd Ed«
5. Grade of slope Pts N & M: _____
 6. Grade of slope Pts R & Q: _____
 7. Direction of slope at Pt Y: _____
 8. Bearing of slope at Pt U: _____

Your Name: _____

Year Joined The Mountaineers: _____

Also Enrolled in:

Basic Climb Alpine Scramble Snowshoe _____

(Rev 30Aug2016/Seattle Nav/ph)

Wilderness Navigation Workshop Grade Card

Student Name _____

Grades: C = Competent; N= Needs more practice

Evaluation Subject	Grade
Prepares for class or outing—completes tasks	
Understanding map symbols, including info in margins	
Identifying terrain features represented by contour lines	
Map and compass skills on paper, as used in problems	
Overall technical competence	
Cooperation & effort	

Instructor will discuss physical conditioning for the field trip.
Please note any concerns here: _____

Instructor will discuss options for dealing with any "N" grades.

Is student interested in instructing? _____

Comments _____

Instructor(s) _____ Date _____