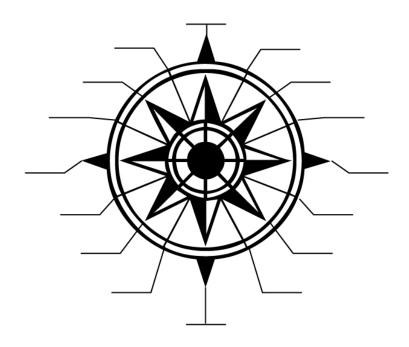
GEOG 201. Map Interpretation & GPS Exercise 03. Compass basics

Azimuth

Fill in the missing azimuth designations below.



Pacing

Measuring long distances in the field is not easy. Knowing your pacing distance will allow you to have a pretty good idea of how far you've gone without having to stretch a tape measure over rocky terrain.

- 1. Walk at a normal pace for a distance of 100 feet. Count every other step.
- 2. Write down the number you counted here. _____
- 3. Do it again. Write the number here. _____
- 4. Do it one more time. Write the number here. _____
- 5. Take the average. Your pace is _____ paces per 100ft
- 6. Now divide 100ft/____ paces. Your pace is _____ ft/pace

Declination

One way to check for magnetic declination is to compare a linear feature on the map with its magnetic azimuth.

- 7. Using your campus map find a linear feature running north-south.
- 8. Find the magnetic azimuth for that same feature with your compass. If the azimuth is to the west of north subtract that number from 360. If your azimuth is to the east of north, simply write down that number. Be sure to add the direction to your declination.
- 9. The declination on campus is _____.

Practicing with the compass

Using a compass with confidence simply takes practice. Keep working with it until you no longer doubt your readings.

10. Find an	object on campus that	you can shoot an azimut	h for. Write it here
11. Now walk to the object and shoot an azimuth back to where you were first standing. Write			
that nev	w azimuth here	•	
12. Subtract the two numbers If you are using the compass properly, you			
should get a difference of 180.			
13. Repeat this with four more objects			
a.	Azimuth	Back azimuth	, Difference
b.	Azimuth	Back azimuth	, Difference
c.	Azimuth	Back azimuth	, Difference
d	Azimuth .	Back azimuth	. Difference