

Orienteering Lab (a.k.a. Lost in the Woods)

Purpose:

The purpose of this lab is to provide an understanding relationship between the real world, air photos and maps (essentially orienteering). A secondary objective is to re-enforce basic navigation skills of determining direction (handheld compass) and distance (pacing).

Overview of Tasks:

- ✚ Office:
 - Determine the orientation (north direction) and scale of air photo(s)
 - Estimate bearing and distance between features
- ✚ Field:
 - Use the air photo and map for navigation
 - Traverse and record field notes to assigned features
 - Record the "code word" for each location
- ✚ Office:
 - Plot your traverse

Equipment Needed:

- ✚ Map of known scale
- ✚ Air photo with features marked
- ✚ Compass, chain, Suunto, field book, First-Aid kit, field gear (vest, caulk boots, rain gear, hard hat, etc.)

Assignment

Preparation (BEFORE coming out to the woods)

1. Determine the **orientation** of the air photos
2. Determine the **scale** of the air photos
3. Determine the approximate **bearing and direction** between the assigned features your crew is to locate
4. Set/**confirm declination** on a handheld compass
5. **Figure out your transportation to the site** (i.e. find a ride!)

Field

1. Use compass to "get your bearings"
 - a. Locate north/south
 - b. **Orient map and photos to real world**
2. Use map and photos to locate, in the given order, the assigned features
3. Keep proper field notes

4. At each feature record the "code word" - each feature is marked with ribbons; the feature # and code word are written on the ribbon (e.g. #3 VIOLET)
5. Make notes of all features encountered (e.g. creek, swamp, trail, road, etc.)

Office

1. Plot your traverse. Scale should be such that the plot utilizes most of an 8.5 x 11 sheet of paper
2. Label stations with HD and "code word"
3. Plot all features encountered (e.g. creek, swamp, trail, road, etc.)
4. Ensure you map has 'all the necessities' (title, scale, north arrow, etc.) - do a 'professional job'

Safety

Please note the following:

- ✚ Bring your first aid kit
- ✚ If someone gets seriously hurt (e.g. sprained ankle), you have 2 options
 - The other 2 crew members can walk the injured party out - then notify the Instructor
 - One crew member stays with injured party while the other finds an Instructor

Deliverables

Field notes and a plot of your traverse (as previously described).

Location

Map - overview

- ✚ Turn RIGHT onto Parkway
- ✚ Turn LEFT at the Jingle Pot / Mostar intersection
- ✚ Make a quick RIGHT onto Biggs Rd (it's the first right only about 100m past the intersection)
- ✚ Travel up the road until you come to the end of the pavement (about 3 km) - this where the turn-off for the Wood Waste is located.

DRIVE SAFELY!!!
