The final lab practicum is about demonstrating that YOU have learned the field skills that you were taught and had an opportunity to practice during the semester. It is an individual assignment that both assesses your ability to conduct fieldwork and provides a final opportunity to learn the skills that the course offers. This study guide is designed to direct your attention to the skills that you will have to perform on the practicum. Therefore, you must be able to perform all of the following.

1. Compass skills
   1. Measure the azimuth to an object.
   2. Follow a given azimuth (bearing)
2. Tape skills
   1. Measure distances between objects with a standard tape
3. GPS Skills
   1. Locate yourself using a GPS and provide the UTM coordinates
   2. Navigate to a new location when given the UTM coordinates
   3. Provide the azimuth and distance between two locations
4. Forest plot sampling skills
   1. Properly inventory a circular forest plot of a given radius
   2. Measure tree diameters at breast height (DBH) with a d-tape
   3. Estimate live crown ratio
   4. Calculate stand densities (trees per hectare, basal area per hectare)
      1. Know how to convert from DBH in cm to BA in m2
5. Basic statistics
   1. Calculate basic stats (e.g., mean, median, mode)
      1. NEW FACT: The **median** of an even set of numbers is the average of the two middle values
         1. For example: What’s the median of 1, 5, 8, 10, 13, 16?
         2. Since 8 and 10 are the middle values, the median is (8+10)/2 = 9