Fall 2015
GEOG 4/510: Environmental Measurement and Mapping
2:00-3:50 Mon., 12:00-4:50 Fri.
Prof. Patricia McDowell

Course goals: With successful completion of this course, you will be able to:
• Explain and apply basic concepts of GPS and surveying
• Collect and analyze field data in geomorphology, hydrology, and biogeography
• Design a field sampling project
• Demonstrate effective written, verbal and graphic communication skills.

Course Format: A 2 hour class for lecture, discussion and practice with instruments, plus a field work class noon to 5pm on Friday afternoons. On most Fridays we will travel by van to a field site to collect data. (There is a course fee for transportation.) There will be required readings and videos to be viewed before class.

Prerequisites and preparation: Completion of GEOG 322 or 323 with a grade of B or better. Some experience working with computers and spreadsheets. GIS training an asset but not required. Able to work outside all afternoon in open areas and forests and carry light loads of equipment.

Requirements and grading: Working in a team of about three people, you will complete three to five assignments that include field measurements, data analysis, and interpretation and writing a short report. You will also complete an individual final project that is a research and field sampling plan on a topic of your choice. There will be quizzes but no midterm or final tests. Grading will be based on the assignments, quizzes and individual final project.