

Geology 302 – Geology in the Field (CRN 30652)

Spring 2006

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Office Hours: MWF 12:00-1:00; T/Th. 8:00-9:00, by appointment, or any time my door is open

Text: NONE: Reading supplied from Compton, *Geology in the Field, 2nd Edition*

Week of	Topic
Apr. 7	Meet in NS 218. Overview of the course, intro to field geology and field techniques. REQUIRED READINGS PROVIDED
Apr. 14	Strike and dip activity: Leave front of NS bld. at 1:00 sharp, return 7:00-8:00.
Apr. 21	STRIKE/DIP PROJECTS DUE Stratigraphic column activity: Leave front of NS bld. at 1:00 sharp, return 7:00-8:00.
Apr. 28	STRATIGRAPHIC COLUMN ACTIVITY DUE IN CLASS AT 1:00 sharp.
May 5-6	Interpretation and Engineering Geology Activities: Leave front of NS bld. at 1:00 sharp, Friday May 5, return 2:00-3:00 Saturday, May 6.
May 12	INTERPRETATIONS ACTIVITY DUE IN MY BOX, no class (I'm on another field trip w/ Sedimentary Geology)
May 19	ENGINEERING GEOLOGY REPORTS DUE IN MY BOX, no class (I'll be in Seattle)

PROJECTS ARE DUE AT 1:00 ON THE DAY INDICATED. LATE PROJECTS WILL NOT BE ACCEPTED.

This is a lab only course, and I've structured it to total ~ 30-35 hours of contact time. Hence, we won't be meeting every week, and there will be no final exam.

Grading: Strike-dip project 15%
Strat column, obs/sketching activities – 25% each
Engineering geology project - 35%

Grades:

My grading policy is simple. Grades will not be curved; however the grading scale is adjusted in such a way that the highest score given for any test or assignment is equivalent to a 100% score. Hence, if the highest grade given on a midterm is 93/100, grades will be calculated out of a score of 93, rather than 100.

Course Policies:

Field geology requires the ability to get around in the field. Please let me know well in advance if you would benefit from any special resources or tools to allow you to do this. We will not be walking long distances, but you should expect to scramble up and down steep hills and along rocky beaches.

Note: ES 302 is a field-based course. You MUST attend all of each activity in order to receive credit for it. There are no make-ups or alternative activities. Please carefully consider whether you will be able to commit to the expectations of the course before enrolling. It is your responsibility to arrange time off for the trips well in advance.

Lab reports are due when indicated in the syllabus. I will NOT accept late projects. Because this is a 300 level course, I expect you to devote adequate time outside of class hours to complete assignments.

NOTE ON USE OF COMPUTER TECHNOLOGY Local and system-wide malfunctions are a normal and expected aspect of any university computer system. It is YOUR responsibility to save files on drives that are always accessible to you. Computer malfunction is NOT an excuse for turning in late or incomplete assignments.

Things You'll Need: I'm not requiring you to buy a textbook for this course. Instead, please use that ~ \$100.00 to buy some decent geology materials. You'll be thankful later that you did, and will use them in many other classes as well as in your CAREER. Items marked with a star are purchases you probably will want to hold off on.

For the Field

- › A Brunton compass*
- › A field notebook – a hardcover Leitz or other surveying book is best
- › A rock hammer (one with a chisel end is preferable) and a hammer holder
- › A clipboard, the bigger the better, with cover (preferably clear) or a map case. Map cases are often sold by medical supply houses on line.
- › A decent quality handlens
- › A field case for your pencils and other stuff
- › A FINE (.5 mm) mechanical pencil or several HARD (3H or 4H) pencils and a small sharpener – a small piece of emory cloth is a good idea, too. Glue it to your map case.
- › A good eraser
- › Three colored pencils
- › Large zip lock freezer bags
- › A protractor (the small, clear, plastic ones are best)
- › A sand comparator card
- › Several colored pencils
- › A short (6 inch or so) ruler
- › Binoculars*
- › Krylon
- › Spraymount
- › Chip clips and paper clips (these will save your grade, and perhaps even your life someday)
- › If you don't have a field case, those pencil/pen clips for your pocket are a nice accoutrement, and look particularly cool with a pocket protector and a calculator case.

The Standard Getup

- › Long sleeved work shirt
- › Pants with big pockets – particularly if you don't have a field case
- › A strong belt
- › Rain gear
- › Hat
- › Decent boots
- › Miner's hardhat with a light (just kidding)
- › Sunglasses
- › A WATCH!
- › Sunblock
- › Water
- › TP

For the Office

- › 11 x 17 inch Vellum (ideally gridded 1/10 inch)
- › An engineering ruler (with decimal inches)
- › A straightedge, preferably a t-square
- › Some sort of drafting board or very smooth table with a very straight and smooth edge
- › 45 and 90 degree triangles
- › Ponce (if you can find it)
- › Drafting tape
- › An erasing shield
- › A tackle box for your stuff
- › Colored pencils: Berol Verathin #735,757,736,750,737,743 ½, 756, 751, 740 ½, 758, 740, 742 ½, 742

You can share some of this stuff (Krylon, spraymount, vellum) with your colleagues to save money, but you'll need your own set of basic field tools.