

INTRODUCTION TO GEOLOGIC FIELD METHODS
51-140, 1 CREDIT, SPRING, 2010
LECTURE AND LAB SYLLABUS

Instructor: Dan Lehrmann

Office: H-315. Office hours 10:20-12:30 MWF. You are also welcome to visit me any other time you can catch me. I'm usually available outside my class times.

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Class Time: 4:10 p.m. to 6:20 p.m. every other Monday, in H-313. Attendance is mandatory.

Text: Compton, 1985, Geology in the Field.
This is also the required textbook for Field Camp.

Field Book: Rite in the Rain No. 540f or equivalent (two required). These are available at the bookstore.

Equipment: Hand lens, rock hammer, scale, triangles, protractor, pencils, colored pencils.

Lab Projects: There will be laboratory projects assigned at each of the first five class meetings. These will be due at the beginning of the next class period (two weeks later). I will grade these and hand them back to you at the beginning of the following class period. All lab projects must be documented in your field book according to the procedures outlined during the first class period. Lab projects handed in late will be accepted only with a reasonable, documented excuse.

Field Trips: The last two meetings of class will be field trips: to Red granite (or other locality) on April 5th; to Oakfield on April 26th. Participation in field trips is required.

Grades: Four biweekly lab projects will cumulatively count for one-half of your grade. Field trip projects will count for one-half. Letter grades will be assigned according to the following scale: A (93-100), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (75-79), C (70-74), D (60-69), F (<60)

See class schedule, next page.

Class Schedule:

February 1

Lecture: Philosophy and procedures; Geological field books and notes.

Reading: Compton, chapter 1.

Lab: Review of topographic and Geologic maps. Due February 15.

February 15

Lecture: Geologic field equipment and instruments.

Reading: Compton, chapter 2, sections 2-1 to 2-3; chapter 4

Lab: Identification and description of rocks in hand specimens and outcrops.

Due March 1.

March 1

Lecture: Introduction to the Brunton Compass.

Reading: Compton, chapter 2, sections 2-4 to 2-8.

Lab: Declination, bearings and azimuths, hand level, clinometer, strike and dip. Due March 15.

March 15

Lecture: Procedures at outcrops. Jacob staff, pace and compass surveying

Reading: Compton, chapter 3, 5, 11.

Lab: Pace and compass map. Due April 5.

Spring Break - March 22-26

No Class April 5, 12 – AAPG/ GSA

April 5

Focus: Outcrop description and interpretation in the field.

Field trip to Berlin. (Field notes and maps due on April 26).

No Class April 12-16 – NC-SC GSA

April 26

Focus: Jacob staff and measuring stratigraphic sections.

Field trip to Oakfield. (Field notes and synthesis due on May 10th).

May 10

Field trip projects/ reports due.