

**INTRODUCTION TO GEOLOGIC FIELD METHODS  
51-140, 1 CREDIT, SPRING 2012  
LECTURE AND LAB SYLLABUS**

**Instructor:** Tim Paulsen

**Office:** Harrington-306, Office hours 12:30-1:30 T, Th. You are also welcome to visit me any other time you can catch me. I'm usually available outside of my class times.

**Email:** [paulsen@uwosh.edu](mailto:paulsen@uwosh.edu)

**Class Time:** 3:00 to 5:10 p.m. Tuesday, in H-313. Attendance is mandatory.

**Text:** Compton, 1985, *Geology in the Field*.  
This is also the required text 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, protractor, pencils, color pencils.

**Lab Projects:** There will be laboratory projects assigned at each of the first six lab 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:** There will be one required field trip on April 14<sup>th</sup>. We will discuss this in more detail as the dates for the trip approaches.

**Grades:** Six lab/field projects will be weighted equally for your final grade.

**Class Schedule:**

**January 31**

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

Reading: Compton, Chapter 1.

Lab 1: review of topographic and geologic maps. Due February 14.

**February 7**

Lab: continue to work on Lab 1.

**February 14**

Lecture: Geologic field equipment and instruments.

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

Lab 2: Identification and description of rocks. Due February 28.

**February 21**

Lab: continue to work on Lab 2.

**February 28**

Lecture: Introduction to the Brunton Compass.

Reading: Compton, Chapter 2, Sections 2-4 to 2-8.

Lab 3: Declination, bearings, hand level, clinometer, strike & dip. Due March 13.

**March 6**

Lab: continue to work on Lab 3.

**March 13**

Lecture: Pace and compass surveying.

Reading: Compton, Chapter 5.

Lab 4: Pace and compass map. Due April 3.

**Spring Break – March 17-25**

**March 27**

Lab: continue to work on Lab 4.

**April 3**

Lecture: GPS mapping.

Reading: Compton, Chapter 3.

Lab 5: GPS mapping project. Due April 17.

**April 10**

Lab: continue to work on Lab 5.

**April 14 (depart at 7 AM; return by 5:30 pm)**

Focus: Field observations, notes, and measurements.

Reading: Compton, chapter 3.

Field trip to Baraboo area.

**April 17**

Lecture: Cross section construction.

Reading: Compton, chapter 3.

Lab 6: Cross sections. Due May 1.

**May 1**

Hand in Baraboo field books, maps, and cross sections.