

Sedimentary Petrology, Spring 2007
Tuesdays 1:50 to 5:10, 216 Harrington
Who: Glenn Jaecks
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Text: Sedimentary Petrology by Maurice Tucker

Course Objectives:

The main objective is to develop your “eye” for sedimentary rocks and familiarize yourself with a wide variety of sedimentary compositions and textures, and to be able to interpret them in the context of depositional and diagenetic environments. As such, we will examine numerous sediments, hand samples, and thin sections, and focus our observations through specific questions and careful illustrations. You will keep a notebook and participate in class, and that will be the basis of your grade. If you start slacking, then I hold the right to give an exam. We will go on a field trip after spring break, and make thin sections (more on that in class).

Course schedule:

There will be no extensive lecturing- I will introduce the days topic, and go over some key points to look out for during class. Lab is about *doing*, not listening to me. The first week is introductory, and the second week we will begin with clastic sediments, followed by 5 more clastic labs. Following the section on clastics, we will study carbonates, for which there are 4 labs. That leaves several labs for XRD, makeup and thin-section making. We can discuss any special topics that you would like to see covered.

Readings: The readings in Tucker are fairly straightforward; just keep one week ahead, and be sure to pay attention to discussions on classification, and how to interpret things classified. The readings below are just a guideline to help you keep up- you may want to refer to portions of other chapters during the labs themselves.

Schedule

Week/date	Lab Topic	Suggested reading
1 / Jan 30	Introduction, course expectations	entire book!
2 / Feb 6	Clastics 1- sediments	Chapter 1, 2
3/ Feb 13	Clastics 2- rock classification	Chapter 2, 3
4/ Feb 20	Clastics 3- diagenesis	Chapter 2
5/ Feb 27	Clastics 4- diag. reactions	
6/ March 6	Clastics 5- more diagenesis	
7/ March 13	SPRING BREAK!	
8/ March 20	Clastics 6- paragenesis and “other rocks”	Ch 5, 9, 10
9/ March 27	Carbonates 1- grain types and microstructure	Ch 4
10/ April 3	Carbonates 2- early diagenesis	Chapter 4
11/ April 10	Carbonates 3- burial diagenesis	Chapter 4
12/ April 17	Carbonates 4- description and paragenesis	

13/	April 24	XRD? FIELD TRIP ROCKS?
14/	May 1	XRD? FIELD TRIP ROCKS?
15/	May 8	XRD? FIELD TRIP ROCKS? PIZZA?