Labs and more information are posted at: http://mygeologypage.ucdavis.edu/sumner/gel109 and the SmartSite class page.

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The Goals of the Labs and Field Trips are to help you become acquainted with sedimentary rocks and the diverse methods for interpreting them. The labs and especially the field trips are opportunities for you to put the ideas discussed in class to use as a geologist. They will help you cement the grains of ideas into a rock-solid understanding of how to extract information from sedimentary sequences.

Schedule and Outline

Jan 4, 6, 11  Labs 1 and 2: Sedimentary Particles and Rock Classification (Frances)
Jan 13, 20  Lab 3: Sedimentary Structures and the Interpretation of Paleocurrents ()
Labs 1 and 2 are due at the beginning of lab on Jan 13

Jan 18  Holiday
Jan 25, 27  Lab 4  Fence Diagrams ()
Lab 3 is due at the beginning of lab on Jan 25

Jan 30 (Sat)  Lab 5: Field trip to Bodega Bay (Frances, Neil)
Feb 1  Lab 5 continued; discussion of presentation topics with TAs
Lab 4 is due at the beginning of lab on Feb 1

Feb 3, 8  Lab 6: Bahamian Carbonate Sediments and Carbonate Rocks ()
Lab 5 is due at the beginning of lab on Feb 3
Presentation outline due at the beginning of lab on Feb 8

Feb 10  Lab 7 preparation – learning to use a Jacob’s staff
Lab 6 is due at the beginning of lab on Feb 10

Feb 13 or 14  Lab 7: Stratigraphy field trip to Cache Creek ()
Feb 15  Holiday
Feb 17  Lab 7 continued
Feb 22  10 minute oral presentations of a scientific conclusion from field trip or lab
Feb 24, 29  Lab 8: Introduction to Sequence Stratigraphy and Fuzzim ()
Lab 7 due at the beginning of lab Feb 24

Mar 2, 7  Lab 9: Facies Analysis & Correlations of Stratigraphic Columns ()
Lab 8 is due at the beginning of lab on Mar 4

Mar 9, 14  Lab 10: Sequence Stratigraphy ()
Lab 9 due at the beginning of lab on Mar 9
Lab 10 is due at the end of lab on Mar 14

Please read the labs before coming to lab and bring all the required equipment with you.

Although attendance will not be taken, it is GREATLY to your advantage to be in lab. The TA’s are your most important resources, and they do not have to help you outside of lab if you do not attend during scheduled hours. Thus, attending labs, particularly at the beginning of each lab period is critical for learning the most from the labs and obtaining a good grade. You are free (and encouraged) to work together, but please do your own work. It is possible complete each lab during the assigned lab periods if you work consistently.
**Grading**
95% on labs
   Labs 1 and 2 worth 150 points each, Labs 3-10 worth 200 points each
5% on oral presentation.
   The oral presentation will be 10 minutes long with either projected images or using the board. Each student will present a scientific outcome from one of the labs. A detailed description of the structure of the presentation and requirements will be provided, as will the grading metrics.

90% will earn ≥ A-
80% will earn ≥ B-
70% will earn ≥ C-
Grades will not be curved.

**Late labs:** Late labs will be accepted for only **one week** after the due date. After one week you will receive a zero. They will be downgraded 10% for each day they are late. Lab corrections (when allowed) will not be accepted late.

**Items to Bring to Lab:**
1) Printed labs from the web page or an electronic version that you can write on during lab. You are responsible for having access to the lab during lab times.
2) Hand lens for labs dealing with samples and the field trips.
3) Grain size chart for labs dealing with samples and the field trips.
4) Colored pencils are needed or at least useful for most labs.
5) A good attitude, good questions, and enthusiasm for learning.