

Sediments and Strata Lab, Geology 109L
 Spring 2018
 Prof. Dawn Sumner, UC Davis
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Labs and more information are posted on the Canvas class page.

TAs: Tracy Thomson, Sydney Salley, and Alex Moreland

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.

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| April 2-13 | Labs 1 and 2: Sedimentary Particles and Rock Classification |
| April 14 (Sat) | Lab 3: Field trip to Bodega Bay; leave at 8:00 am |
| April 16/17 | Lab 3: continued |
| April 18-24 | Lab 4: Sedimentary Structures and the Interpretation of Paleocurrents |
| April 25-May 1 | Lab 5: Fence Diagrams |
| May 2-8 | Lab 6: Bahamian Carbonate Sediments and Carbonate Rocks |
| May 9-15 | Lab 7: Introduction to Sequence Stratigraphy and Fuzzim |
| May 16/17 | Lab 8 preparation – learning to use a Jacob’s staff |
| May 19-20 (Sat & Sun) | Lab 8: Stratigraphy field trip to Ridge Basin; leave at 7:30 am, camping overnight |
| May 22-24 | Lab 8 continued |
| <i>May 28</i> | <i>Holiday</i> |
| May 29-June 4 | Lab 9: Facies Analysis & Correlations of Stratigraphic Columns |
| June 5-8 | No lab |

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.

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 assignment 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.

Grading

100% on labs

Labs 1 and 2 are worth 150 points each,

Labs 3-7, 9 are worth 200 points each,

Lab 8 is worth 250 points

90% will earn \geq A-

80% will earn \geq B-

70% will earn \geq C-

Grades will not be curved.

Due Dates

| Lab | MW Labs | TH Lab |
|-----|----------|----------|
| 1 | April 11 | April 12 |
| 2 | April 16 | April 17 |
| 3 | April 18 | April 19 |
| 4 | April 25 | April 26 |
| 5 | May 2 | May 3 |
| 6 | May 9 | May 10 |
| 7 | May 16 | May 17 |
| 8 | May 30 | May 29 |
| 9 | June 6 | June 5 |

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.