## LECTURE / DISCUSSION TOPICS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Tentative Dates</th>
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<tbody>
<tr>
<td>1. Introduction to Geology / Rock Cycle</td>
<td>June 22</td>
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<tr>
<td>2. The Mobile Lithosphere / Global Tectonics</td>
<td>June 22, 23</td>
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<tr>
<td>4. Finish Provinces / Evolving Landforms and Deserts</td>
<td>June 29</td>
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<tr>
<td>5. MIDTERM #1 (covers 1st 4 lectures and 1st 2 labs)</td>
<td>Tuesday June 30 (Equivalent of 5th week)</td>
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<td>6. Proterozoic California (begins after the Midterm on Tuesday June 30)</td>
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<td>7. Paleozoic California</td>
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<td>8. Mesozoic California</td>
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<td>9. Cenozoic California</td>
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<tr>
<td>10. MIDTERM #2</td>
<td>Monday July 20</td>
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<tr>
<td>11. California's Geomorphic Provinces</td>
<td>July 21, 27 &amp; 28 (no class July 22)</td>
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<tr>
<td>Student Oral Presentations</td>
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<tr>
<td>12. Offshore California (Field or earlier in the semester)</td>
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<tr>
<td>13. Dynamic California; Hazards and Resources (Field or earlier in the semester)</td>
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<tr>
<td>14. Comprehensive Final Exam on Wednesday July 29th, 6:00 – 9:00pm in room 705</td>
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## REQUIRED MATERIALS:

**Required Texts:**

3. California Geology Lab Workbook
RECOMMENDED MATERIALS:
Geologic Map of California
A 10x hand lens is recommended for the lab and field portion of this course.
A Field Notebook: something portable, that’s easy to write on while standing.

Optional Text:
There will be other helpful materials and textbooks left on reserve at the Cabrillo College Library.

EVALUATION SYSTEM: Your letter grade for this course will be based on: Laboratory Exam = 20%,
Two Midterms = (#1 = 20%, #2 = 25%), Oral Presentation = 15%, Field Notes = 5% and a
Comprehensive Final Exam = 15%. The two Midterms will cover both lecture and lab material.
Credit / No Credit is another possible option. The deadline for this decision will be announced in class
and the student must turn in a hand written agreement. No make-ups will be given on any quizzes or
exams. It is the students' responsibility to be aware of your progress in this course.

Students needing special accommodations should contact the instructor ASAP. As required by the Americans
with Disabilities Act (ADA), accommodations are provided to insure equal opportunity for students with
verified disabilities. If you need assistance with an accommodation, please contact Disabled Student Services,
Room 810,
479-6379, or Learning Skills Program, Room 1073, 479-6220.

ATTENDANCE AND PROMPTNESS: Attendance is required at all class meetings and field trips
and will be strictly enforced. Missing 1 three Hr lecture is like missing ~2 weeks during the regular semester.
Everyone will get one free absence and hopefully no one will need it. If you miss 2 class meetings, you will lose
2% off your point total for the course, 3 class meetings 4%, 4 class meetings 8% and 5 class meetings you will be
dropped. Attendance is also required in the course in order to earn your trip to Yosemite. There must be
verifiable barriers such as student is in the hospital or death in family etc…. to avoid these penalties. Please let
me know in advance by calling my office 479-6495 if you can not attend. No "make-up" lectures, labs, exams or
field trips will be given. Also, please arrive on time to the lectures! If you are consistently late, you will lose
points.

LABORATORY SCHEDULE: Each student is required to attend all labs and arrive ON TIME.
There will be an important lecture at the beginning of each lab. All labs are 6:00 – 9:10pm.
June 25th ................................. Rock Forming Minerals, Physical Properties
June 26th ............................... Igneous Rocks
July 2nd ................................. Sedimentary Rocks
July 9th ................................. Metamorphic Rocks
July 10th ............................... Laboratory Final Exam

FIELD TRIPS: +++REQUIRED! ++++ NO MAKE-UPS! +++
Saturday July 11th: 8:00am - 5:00pm Coastal Geology of Santa Cruz & San Mateo
Counties
Thur/Fri/Sat/Sun July 23rd – July 26th +++Yosemite National Park+++
Please note: the field trip to Yosemite is required. Please make sure you are up for this by planning early. If you do not attend the Yosemite trip (for reasons other than verifiable barriers such as death in the family or you are in the hospital), you may fail the class.

Field Notes will be evaluated and will count for 5% of your total grade. Instructions and tips on how to take quality field notes will be discussed. It is recommended that some type of field notebook should be used to take notes in. A grading rubric will evaluate the following aspects of field notes:

Labels: date, time, name of location etc. ________ Thoroughness / Detail: ________

Neatness: ________ Drawings / Pictures: ________ Overall Score out of 10: ________

CALIFORNIA GEOLOGY 20
OUTLINE FOR STUDENT ORAL PRESENTATIONS
SUMMER, 2009

1. A printed detailed outline of the material that you will discuss in your presentation will be due at least one day before your presentation. Make sure that these are useful since copies of them will be distributed to the rest of the students in the class. Any other handout materials that you might want the class to have should be included with your outline. A portion of your grade for your Oral Presentation will be based on the quality of this outline.

2. Your ~25 minute presentation (30 minutes at the most) on one of California's Geomorphic Provinces should include a review of: (but not necessarily in this order)
   A. physical setting and boundaries and the general topographic features
   B. climate and drainage patterns
   C. general geologic history including major rock types, their distribution and age
   D. discuss the relevance of your Geomorphic Province in the everyday lives of Californians. For instance, discuss any geologic processes or human activities that create hazards to people living in your province. You could review their direct and indirect causes and discuss the prevention, mitigation or preparation measures for each. You could also discuss any important natural resources that may be associated with your province.

3. Be as original as you like. Also, please be informal and relaxed. Do not read to us. You will be required to use PowerPoint for all or a portion of your talk. Be careful not to have to much text on the PowerPoint Slides. If you do, you may fall into the rut of reading to us. Only one PowerPoint document can be used per presentation. In other words, each speaker can not use different PowerPoint documents. Also, it recommended that you try using Google Earth or http://local.live.com/ for your presentation. You may also use the overhead computer projector / Internet, slides, maps, posters, skits, the whiteboard, photos, videos or what ever else you think would be worthwhile. Your object is to become an expert on your geomorphic province and come in and teach / demonstrate to the rest of us what you have
learned. Try to teach us something new that we have not heard yet. Tell us why you think your Geomorphic Province is special. A short question and answer session will follow each presentation. Remember, you can not READ to us, even off your PowerPoint slides. If you do, you will lose points.

*This is a part of the course where students will be working in groups of 2 - 3. Assignments of provinces and groups will be based on merit. Considerations will also be given towards location and other factors. Some students may be assigned to work with others in a particular province and may not get the province of their choice. Everyone is asked to be flexible for this portion of the course. If you fail to come to class the evening of your presentation, without a verifiable barrier (see pg 2), you will be dropped two letter grades.

Grading Rubric for California Geology 20 Student Oral Presentations

<table>
<thead>
<tr>
<th>General Presentation Components:</th>
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<tbody>
<tr>
<td><strong>Organization</strong></td>
</tr>
<tr>
<td>Speech quality (clarity / understandable), eye contact, professional manner</td>
</tr>
<tr>
<td><strong>Use of PowerPoint</strong></td>
</tr>
<tr>
<td><strong>Speaker can not read to us</strong></td>
</tr>
<tr>
<td>Use of Google Earth</td>
</tr>
<tr>
<td>Quality of printed outline given to the audience</td>
</tr>
<tr>
<td>Overall effectiveness, how much did the audience learn</td>
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</tbody>
</table>

90% and above “A”: The presentation is well organized with a thorough introduction and conclusion that previews and summarizes the topic. The main points of the presentation thoroughly explain the topic and are very clear, well developed, and focused. The speaker has excellent eye contact, uses clear, loud understandable speech and has a poised and professional attitude. The speaker does not read to the audience, even off the PowerPoint slides. The speaker uses Google Earth very effectively and gives the audience an extremely thorough outline with additional, helpful information about the geomorphic province. Overall, the presentation is informative, interesting and fun to listen to.

80% and above “B”: The presentation is organized with an introduction and conclusion that previews and summarizes the topic. The main points of the presentation mostly explain the topic and are very clear, well developed, and focused. The speaker has eye contact, uses clear speech and has a poised and professional attitude. The speaker tries not to read, but does read a few portions of the PowerPoint slides. The speaker does not use Google Earth or uses Google Earth somewhat effectively and gives the audience a detailed outline with some additional information about the geomorphic province. Overall, the presentation is informative, interesting and fun to listen to.

70% and above “C”: The presentation is not well organized and jumped backed and forth with several of the topics. The main points of the presentation were somewhat clear, but need to be better developed. The speaker has some eye contact, but needs to speak louder or with a more clear style. The speaker tries not to read, but does anyway and also reads off the PowerPoint slides. The speaker does not use Google Earth or uses Google Earth somewhat effectively and gives the audience a general outline about the presentation and/or the geomorphic province. The presentation is somewhat informative, but is difficult for the audience to follow and/or understand some of the new information given.

Less than 70% “D” or “F”: The presentation is not organized and jumps backed and forth with several of the topics. The main points of the presentation are very unclear. The speaker has some eye contact, but needs to speak louder or with a more clear style. The speaker reads to us most of the time, including reading off the PowerPoint slides. The speaker does not use Google Earth nor does the speaker provide the
audience with an outline of the presentation. The presentation is uninformative, and is difficult for the audience to follow and/or understand most of the new information given. It appears to the audience that very little times was spent preparing for the presentation.

Grading Scorecard for California Geology 20 Student Oral Presentations

General Presentation Components:
Organization

Speech quality (clarity / understandable), eye contact, professional manner

Use of PowerPoint

Speaker can not read to us

Use of Google Earth

Outline given to instructor in advance OR duplicated by the group

Quality of printed outline given to the audience

Overall effectiveness, how much did the audience learn

Points will be lost for going past the time limit (35 minutes at the most)