LECTURE / DISCUSSION TOPICS

1. Introduction to Geology / Rock Cycle.......................... Feb 8th and 10th

2. The Mobile Lithosphere / Global Tectonics............. February 17th and 22nd

3. California's Geomorphic Provinces / Geologic Time ...... February 24th and March 1st

4. Geologic Time / Evolving Landforms and Deserts......... March 3rd and March 8th

5. MIDTERM #1 ....................................................... Wednesday March 10th

6. Proterozoic California

7. Paleozoic California

8. Mesozoic California

9. Cenozoic California

10. MIDTERM #2 ...................................................... Monday May 3rd

11. California's Geomorphic Provinces
    Student Oral Presentations........................................... next 4 meetings

12. Offshore California

13. Dynamic California; Hazards and Resources .........

14. Comprehensive Final Exam on Wednesday May 26th
    Final Meeting on Wednesday June 2nd 10:00am – 12:50pm

REQUIRED MATERIALS:

Required Texts:
3. Schwartz, D., 2009; “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 1 GB Flash Drive (or larger) to help with your oral presentation
A field notebook (some type of portable, durable notebook that can be used conveniently in the field)

EVALUATION SYSTEM:
Your letter grade for this course will be based on: Laboratory Exam = 20%, Two Midterms = 40% (20% each), Field Notes = 5%, Oral Presentation = 15%, and a Comprehensive Final Exam = 20%.
The two Midterms will cover both lecture and lab material. Field notes will be collected at Yosemite on May 16th. Pass / Non Pass 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.

Accommodations are provided for students with verified disabilities. If you need any accommodations, please see me during an office hour and contact staff in: Disabled Student Services & Programs (DSS&P): 479-6379 Room 810 Learning Skills Program (LSP - for students with learning disabilities & attention deficit disorder): 479-6220 Room 1073, Learning Resources.

ATTENDANCE AND PROMPTNESS:
Attendance is required at all class meetings and field trips. Please let me know in advance by calling my office 479-6495 if you can not attend either! No "make-up" lectures, labs, exams or field trips will be given. Points will be lost for missing more than 4 lectures or equivalent. 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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture Topic</th>
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<tr>
<td>FEBRUARY 19th</td>
<td>Rock Forming Minerals, Physical Properties</td>
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<tr>
<td>FEBRUARY 26th</td>
<td>Igneous Rocks</td>
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<td>MARCH 5th</td>
<td>Sedimentary Rocks</td>
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<td>MARCH 12th</td>
<td>Metamorphic Rocks</td>
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<td>MARCH 19th</td>
<td>Laboratory Final Exam (5th week)</td>
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FIELD TRIPS:
8:00AM - 5:00PM ++++ ALL REQUIRED! ++++ NO MAKE-UPS! +++
Friday, April 26th: Point Lobos
Friday, May 7th: North Coast; Scott Creek, Año Nuevo, Pebble Beach

Friday / Saturday / Sunday, May 14th, 15th & 16th ++++Yosemite National Park+++ Please note: the field trip to Yosemite is required. Please make sure you are up for this by planning early. We will depart from Lot K early on Friday morning and return to Lot K at Cabrillo College on Sunday early evening. You can leave your vehicles there or arrange rides. No one will be picked up or dropped off at another location. If you fail to attend the Yosemite trip (for reasons other than verifiable barriers such as death in the family or you are in the hospital), you may not pass the class.
1. A printed detailed outline of the material that you will discuss in your presentation will be due at least one class meeting before your presentation. Make sure that these are legible and useful because 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 are also due one week prior to your presentation. Approximately 10% of your grade for your Oral Presentation will be based on the quality of this outline.

2. Your ~25 minute presentation (35 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. Also, 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 Power Point for all or a portion of your talk. I also highly recommend that you try using Google Earth for your presentation. If you use You Tube, it must be 5 minutes or less and approved by the instructor. Please transport your presentation using a jump drive. 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; please do not read us your entire talk. 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.
Grading Rubric 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
- 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)

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 jumps 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.