Geology 3  
Physical Geology Laboratory

Mission Statement: El Camino College offers quality, comprehensive educational programs and services to ensure the educational success of students from our diverse community.

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El Camino College  
Fall 2009  
Section 1294

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Course Objectives: At the completion of this laboratory course, students should be able to work with topographic and geologic maps, identify rock and mineral samples, identify landforms and speculate on the area’s geologic development, understand the concepts of structural geology and geologic time, discuss plate tectonics and the origin of planet earth, and complete laboratory and field reports.

Transfer credit – California State University and University of California – Geology 1 and Geology 3 – CAN GEOL 2

Class Meetings: Lab M 1:00 – 4:10 PM Room: NATS 219

Student Learning Objective: Students will be able to recognize and articulate how the earth affects human life and how humans affect the earth and explain the basic concepts of geology. Geology students will use the scientific method in their laboratory and field exercises. Assessment assignments will be administered during the semester.

Attendance: Roll will be taken at each class meeting. Students are expected to attend every lecture. Excessive absences may impact the student’s grade. Students are responsible for all of the attendance guidelines published in the current El Camino College Catalog. Maps to alternative site meetings will be provide at least a week in advance.

Lecture Notes: The best way to learn what will be covered on the exams is to attend class and take notes. Please remember to bring the laboratory manual to class!

Grading:  
2 Exams 100 Points (50 points each) A = 900 – 1,000 Points
Lab Assignments 500 Points B = 800 – 899 Points
Field Trip Reports 150 Points (50 points each) C = 700 – 799 Points
Group Presentation 100 Points
Attendance/Participation 50 Points D = 600 – 699 Points
Final Exam 100 Points F = > 599 Points
1,000 Points Total

No make up exams or laboratories without prior consent of instructor or for medical reasons.
Laboratory assignments are to be done during class time and not as a homework assignment. Students are to work with partners (maximum of four students per group) during the laboratory exercises.

**Student Conduct:** Anyone caught cheating or found to be plagiarizing material will receive the grade of F. Conduct at El Camino College must conform to the laws of the State of California, District policies, and campus rules and regulations. The El Camino College faculty, staff and administration are dedicated to maintaining an optimal learning environment; the standards of behavior as outlined in this policy are essential to the maintenance of a quality college environment. These standards will apply to all students on campus, other college property or while attending any college-sponsored event. Violation of such laws, policies, rules and regulations or behavior adversely affecting suitability as a student, will lead to disciplinary action. Disciplinary actions as noted in Section II may be taken against any person who engages in behavior defined as misconduct as listed. Students are responsible for all of the standards of conduct guidelines published in the current El Camino College Catalog.

**American Disability Act:** El Camino College is committed to providing educational accommodations for students with disabilities upon the timely request by students to the instructor. Students with disabilities that would like to request an academic accommodation are responsible for identifying themselves to the instructor and to the Special Resources Center.

Several alternative site meetings will be conducted off campus and students are expected to provide their own transportation. Waivers must be completed prior to the alternative site meetings. Please note that students represent El Camino College and the Earth Science Department so please act accordingly. Car stereos should not be able to be heard from outside of the vehicle when arriving at alternative site locations.

A maximum of ten extra credit points (1 point per current event) can be earned by sharing an oceanographic current event with the class at the beginning of lecture. To receive credit, students must write their name, date, and topic on a sheet of paper and submit it by the end of the current event announcements.

Food and drink are permitted in the classroom as long as it does not cause a disruption during class time. Students are expected to clean up all materials before leaving the classroom or loss in privileges will result. No food or beverages, even water, are allowed in the computer labs. There is to be no gum in the classroom.

Smoking is **NOT** permitted during alternative site meetings.

Cell phones and portable electronic devices are not permitted in the classroom at any time.

Please push in chairs before leaving the classroom. The classroom door should never slam. Generally one door will be left ajar and the other closed. Use only the door that is ajar to prevent disruption of classes in session. When in the hallway, students should only speak softly so as not to disrupt other classes in session.

**Students will be notified of any changes to the course requirements or policies.**

Good Luck this semester!
Week 1
08/31 Course Outline, Exercise 3 - Latitude and Longitude

Week 2
09/07 Labor Day Holiday – No Class Meeting

Week 3
09/14 Topographic Maps, Plate Tectonics

Week 4
09/21 Plate Tectonics Computer Lab – MCS 8

Week 5
09/28 Earthquakes, Motion Along the San Andreas, Review for Exam 1

Week 6
10/05 Alternative Site Meeting – Del Cerro Park (Report Due 10/12)
Meet at 1:45 PM at alternative site.

Week 7
10/12 Exam 1 (laboratory exercises from week 1 to week 7, Minerals

Week 8
10/19 Internet Research Project - MCS 8 (Environmental Hazards)

Week 9
10/26 Igneous Rocks, Volcanoes

Week 10
11/02 Alternative Site Meeting – Point Vicente Area (Report Due 11/09)
Meet at 1:45 PM at alternative site.

Week 11
11/09 Identification of Sands

Week 12
11/16 Sedimentary Rocks, Metamorphic Rocks, Review for Exam 2

Week 13
11/23 Alternative Site Meeting – Madrona Marsh (Report Due 11/30)
Meet at 1:45 PM at alternative site.

Week 14
11/30 Exam 2 (on laboratory exercises from week 7 to week 14), Fossils, Relative Age Dating

Week 15
12/07 Laboratory Group Presentations

Week 16
12/14 Final Exam

Write ups on Laboratory Exercises are due at the end of each class unless otherwise designated on course outline. Late exercises will be penalized.

Final Exam
Monday, December 14, 2009