

## 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.*

**Lynn Fielding**  
**Fall 2009**  
**Section 1294**

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**Text:** Herzig, C., L. Fielding, and J. Holliday. *Geology 3 - Laboratory Manual, 7<sup>th</sup> Edition*,  
Torrance, CA: El Camino College 2008.

ISBN 2 - 10 - 551 - 360 – 3      Price New \$8.50

**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!*

<b>Grading:</b>	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	<u>100 Points</u>	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.

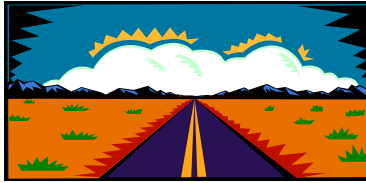
Cell phones and portable electronic devices are not permitted in the classroom at any time.

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!





## Geology 3 Fall 2009 Semester Outline

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	<b>Alternative Site Meeting</b> – Del Cerro Park (Report Due 10/12) Meet at 1:45 PM at alternative site.
Week 7 10/12	<b>Exam 1</b> (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	<b>Alternative Site Meeting</b> – 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	<b>Alternative Site Meeting</b> – Madrona Marsh (Report Due 11/30) Meet at 1:45 PM at alternative site.
Week 14 11/30	<b>Exam 2</b> (on laboratory exercises from week 7 to week 14), Fossils, Relative Age Dating
Week 15 12/07	<b>Laboratory Group Presentations</b>
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

1:00 PM, NATS 219