

**GEOLOGY 3 - LABORATORY**  
**EL CAMINO COLLEGE**  
**Fall 2009**

INSTRUCTOR: Dr. Chuck Herzig

OFFICE: NATS 210

OFFICE PHONE: 310-660-3593 x3366

**OFFICE HOURS:** 1 – 2 M, 5:00 – 6 pm Tues, 5:10 – 6 pm Wed, 5 – 6 pm Thurs, or by appointment

TEXTBOOK: Geology Laboratory Manual produced by El Camino College staff (Herzig) – 8<sup>th</sup> edition

Must have clean, unmarked copy.

COURSE CONTENT: The purpose of this laboratory class is to familiarize you with the physical processes and geological materials of the Earth. You will also learn the basic vocabulary used to describe earth materials, and develop confidence in using the vocabulary of science. This laboratory class is "hands-on" and there is no substitute for doing the work, handling the rock & mineral specimens, and working with maps & photographs.

GRADING:

**(a)** Lab activities = Each lab activity counts toward your total score. These points are variable for each lab activity but the total will be normalized to 400 points. Completing the lab activities and attending the alternate site activities are important in order to pass the class. You may work in pairs or single. Pairs = 2 partners. If you work in pairs, each partner must contribute equally to the effort of completing the lab activities. If you are observed not contributing, then you will receive a gentle warning. If you continue to not contribute to the lab activity points will be deducted from your score, and you will then work alone on subsequent lab activities.

**(b)** Laboratory Practicum Final = Last day of class meeting, **12/17/09**. Comprehensive; singles or pairs only, open lab manual. Points = 100. If working in pairs both partners must contribute equally or deductions will occur for the partner not contributing to the effort.

**(c)** Alternate Site Activities – There will be 3 trips, each with an assignment = 50 pts. Total points = 150.

**(d)** There will be two quizzes on rocks & minerals. Each quiz = 50 points. Total quiz points = 100. Singles or pairs only may work together on the rock quizzes. There will be lab activities after each quiz. If working in pairs both partners must contribute equally or deductions will occur for the partner not contributing.

**(e)** Extra Credit: It is possible to earn extra credit points. You must discuss your ideas with the instructor. Maximum possible extra credit points during the semester = 30 points.

**(f)** Attendance is important. Arriving at class on time is important. If you miss a class, or are late to class, you are responsible for acquiring the materials that you missed. Late arrival to class or on an alternate site activity without a written verifiable excuse will receive a 35 % deduction. If working in pairs, you must contribute equally to the effort or you will receive point deductions. Completing make-up laboratory assignments requires a valid written excuse. Late lab assignments will receive a 35 % late fee deduction. Last day to turn in late work is **12/03/09 in my office at 6:00 pm**. Work submitted after this time will not be counted toward your final grade.

Final Grade based on the following:

Lab Activities = 400 pts (53.34 %)

Final practicum = 100 pts (13.33 %)

Alternate Site Activity Assignments = 150 pts (20 %)

Lab quizzes = 100 pts (13.33 %)

Grade Scale: A = 90 - 100 % B = 78 - 89 %

C = 65 - 77 %

D = 52 – 64 %

F = ≤ 51 %

All policies and procedures regarding academic integrity according to the Code of Conduct in the El Camino College Catalog will be followed in this classroom. Turn off all pagers, cell phones, and other electronic devices before entering the classroom. Do not use cell phones or pagers during class time. Leave the classroom if must use your cell phone for communications. Do not use Entertainment Listening Devices (ipods) during classtime. You are expected to conduct yourself in a mature fashion while enrolled in this class. If you cannot do so, then you will have to leave. Excessive cellphone text messaging during classtime – meaning that you were asked more than one time to stop text messaging during class time - will require you to leave the classroom. Any violation of academic standards will be reported using Academic Dishonesty Report Form C, and/or Violation of Standards of Student Conduct Form A.

**GEOLOGY LAB**

<u>WEEK</u>	<u>TOPIC</u> (subject to change)
1 (9/3)	Introduction Plate Tectonics
2 (9/10)	Fossils Relative Age Dating
3 (9/17)	<b>Alternate Site Activity – Palos Verdes</b>
4 (9/24)	<b>Alternate Site Activity – Malaga Cove</b>
5 (10/1)	<b>Alternate Site Activity – Manhattan Beach (collect sand sample)</b>
6 (10/8)	Plate Tectonics - Computer Program
7 (10/15)	The San Andreas fault
8 (10/22)	Earthquakes Internet Earthquakes Mini-Research Project
9 (10/29)	Minerals
10 (11/5)	Minerals Quiz Igneous Rocks and Volcanoes
11 (11/12)	Igneous Rocks Quiz Sedimentary and Metamorphic Rocks
12 (11/19)	Sediments – Sands (sand sample from Manhattan Beach)
13 (11/26)	<b>NO CLASS – THANKSGIVING HOLIDAY</b>
14 (12/3)	Introduction to Topographic Maps
15 (12/10)	Streams, Deserts, Glaciers
16 (12/17)	<b>Laboratory Final Practicum</b>