

GEOLOGY 1
EL CAMINO COLLEGE Fall 2009

Tu/Th class

INSTRUCTOR: Dr. Chuck Herzig

OFFICE: NATS 210

OFFICE PHONE: 310-660-3593 ext. 3366

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

appointment

TEXTBOOK: Lecture Notes and Workbook, Herzig, version 1.0 (mandatory, clean, unmarked copy)

COURSE CONTENT: The purpose of this course is to familiarize you with the dynamic Earth. Geologic processes that shape the dynamic Earth can be understood by simple observation, and by applying basic chemical and physical laws. This course will: (a) teach you the vocabulary used by geologists to describe the Earth; (b) give you an understanding of the dynamic Earth; (c) give you an appreciation for geologic time, (d) develop confidence in using the vocabulary of science.

GRADING:

(a) 4 Midterm Exams (100 pts each) (SCANTRON and short answer). Midterm examinations will be given at the beginning of the designated class meeting. Time for each midterm examination is 60 minutes. If you are late to the examination, you will only have the remainder of the designated time to complete the examination. Closed notes. No make-up midterm exams. Lecture materials follow the exam. Dictionaries (electronic or paper) are

not allowed on the midterm exams or the final examination. No electronic devices are permitted during exams.

(b) Final Exam (100 pts) The mandatory final exam consists of two parts. PART I: closed notes, covers lecture materials from Weeks 14-16. PART II: 3 essay questions - comprehensive, open notes only. You cannot use the textbook or any materials from the textbook, or any other textbook or the internet on PART II. If you do so then you will receive a failing grade for the final examination. No make-up final examination without a verifiable

medical excuse. Final Exam Date = **Week of 12/14/09** (see schedule on next page).

(c) Research paper (100 pts) 3 to 5 pages in length on any aspect of geology. Topics **must** be approved ahead of time. The paper will follow a scientific format to be discussed in class. Encyclopedias or CD-ROM encyclopedias are forbidden references. Deadline for paper submission = **12/01/09**. Late papers/projects will receive an automatic 35 % late penalty. Must turn in paper/project at beginning of class.

(d) Other assignments during the semester (TBA). If you are not present for an in-class assignment, then you lose the points for this assignment. All TBA assignments are due at the beginning of class. Total points = 100.

(e) Your Lecture notes – Workbook will be collected and evaluated 4 times over the course of the semester to insure that you are completing the materials. The goal is to give feedback in order to achieve more success in the classroom. Total points = 140 (35 pts each time collected).

(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 work will receive a 10 % late fee deduction if submitted after the lecture begins (but before the lecture is over) on the day the assignment is due. There is a 35 % penalty for late work if submitted after the lecture is over on the day the assignment is due. The final deadline for turning in all late work is Thursday, **12/03/09** in my office at 6:00 pm. Work submitted after this time will not be counted toward your final grade.

Calculation of final grade based on:

4 Midterm Exams = 48 % (12 % each)

Final Exam = 12 %

Other TBA Assignments = 12 %

Paper/Project = 12 %

Workbook = 16 %

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.

<u>WEEK</u>	<u>TOPIC</u> (subject to change)	<u>READING</u>
1 (9/1)	Introduction Origin of the Earth & Moon	Ch. 1 Ch. 2
2 (9/8)	Plate tectonics	Ch. 3
3 (9/15)	Plate Tectonics, cont.	Ch. 3
4 (9/22)	Earthquakes	Ch. 4
5 (9/29) (10/1)	Earthquakes, cont., San Andreas fault 1st MIDTERM EXAM	Ch. 4
6 (10/6)	Earth's Interior Geologic Time	Ch. 5 Ch. 6
7 (10/13)	Volcanoes	Ch. 7
8 (10/20) (10/22)	Volcanoes, cont. 2nd MIDTERM EXAM	
9 (10/27)	Mountains	Ch. 8
10 (11/3)	Matter & Minerals Rock Cycle Igneous Rocks	Ch. 9, 10 Ch. 11 Ch. 12
11 (11/10) (11/12)	Sedimentary Rocks, Weathering Metamorphic Rocks Plate Tectonics Synthesis; California Geology 3rd MIDTERM EXAM	Ch. 13, 14 Ch. 15 Ch. 16, 17
12 (11/17)	Rivers and Floods Groundwater, Coast	Ch. 18 Ch. 19, 20
13 (11/24) (11/26)	Mass Wasting No Class - Thanksgiving	Ch. 21
14 (12/1) (12/3)	Deserts PAPERS/PROJECTS DUE 4th MIDTERM EXAM	Ch. 22
15 (12/8)	Glaciers and Ice Ages Climate Change - Global Warming Energy Resources	Ch. 23 Ch. 24 Ch. 25
16 (12/15) (12/17)	FINAL EXAM – Part 1 FINAL EXAM – Part 2	

Student Learning Outcomes:

- Students can identify the salient features of the basic concepts of geology. (This includes the ability to recall the definitions of the specialized vocabulary of geology.)
- Students recognize and can accurately articulate how the Earth affects humans' lives and how human activities affect the Earth
- Students can identify the key elements of the scientific method (hypotheses, tests, observations, conclusions/interpretation of observations) in popular accounts of scientific research in magazines, newspapers, journals