

## GEOLOGY 9 - INTRODUCTION TO EARTH SCIENCE (Schedule #57814)

Spring Semester, 2009

TTh 2:00 pm-3:50 pm, PHY 75

Dr. David Cehrs

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I have no office or office hours, consider class/lab office hours. Do not leave any messages on the school phone system, I will not get the message.

Texts: Foundations of Earth Science by Lutgens & Tarbuck

Guide to Minerals, Rocks, and Fossils by Bishop, Woolley, & Hamilton

Course Objectives: Geology 9 is a introductory survey course in earth science that fulfills the CSU science education requirement for Liberal Studies Blended Major students. The course and lab introduces the student to the basic topics and principles of earth science including: geology (plate tectonics, earthquakes, rocks and minerals, igneous activity, time, surficial processes, resources, weathering, erosion, glaciers, early man, maps and other topics), oceanography, meteorology ( weather and climate), and astronomy.

Exams: 3 mid term lecture tests, the lowest grade will be dropped, there will be no make ups. A missed test will count as the dropped score. **The final is mandatory and can not be dropped**, it will consist of approximately ½ lecture (since the last test) and ½ review. Exam grading: A - ≥85%, B - ≥75%, C - ≥65%, D - ≥55%, F - <55%. There will be a weekly quiz on the lecture material presented in the previous classes. Students are responsible for all the material contained in the assigned chapters of the textbook, handouts, plus any additional materials covered during lectures. Fraudulent behavior during tests is graded with a zero.

Laboratory: Laboratory exercises will be assigned. They are due the following week unless otherwise stated. They are graded on a basis of 25, 20, 15, 10, 5, or zero points if not turned in. If they are late the earned grade will be dropped by one value for each week it is late. Lab reports should be neatly written and submitted in the order listed on the lab handout.

Course grading: A - ≥85%, B - ≥75%, C - ≥65%, D - ≥55%, F - <55%.

40% Lecture exams - 2

20% Final

20% Laboratory - tests and exercises

20% Quizzes

Attendance: Attendance is mandatory and will be recorded daily. If a student misses four consecutive class meetings or two laboratories without notification, the student will be dropped from the class.

Drop date: Last day to drop this course is **Friday, March 13** (a letter grade is issued after this date).

## Tentative Schedule

Text chapters and pages to read before lecture.  
Read all the material and at the end of the chapter: know  
"Key Terms" and answer all "Questions for Review"

Week of	Lecture topics	Lab topics
Jan 12	Sci Method, Plate Tectonics, Oceanography (Chpts Intro, 5, 9)	PT and Cont Drift
19	“	Earthquakes
26	Earthquakes, Structure, Mtn Build (Chpt 6)	Topo Maps
Feb 1	<b>TEST</b>	Minerals I
9	Minerals (Chpt 1)	Minerals II
16	Rocks, Igneous (Chpt 2, 7)	Rocks I
23	Weathering, Sediments & Metamorphism (Chpt 2)	Rocks II
Mar 2	Hydrocycle - Streams, Floods Mass wasting (Chpt 3)	Fluvial processes
9	<b>TEST</b> “	
16	Time (Chpt 8)	Time & Grand Canyon
23	Fossils, Man, & Extinctions	Fossils
30	Resources, Water, Energy, & Pollution	Field Trip
Apr 13	<b>TEST</b>	Weather data & analysis
20	Weather (Chpts 11, 12, 13)	“
27	Weather & Climate	Climate analysis
May 4	Climate, Global Warming, Glaciers (Chpt 4)	“
11	Astronomy (Chpt 16)	Sky watching
18	<b>Final</b> - Thursday, May 21, 2-3:50 pm	