

Geology Lecture - DELANO- CRN 71706

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INSTRUCTOR: Jack Pierce
OFFICE: DST 102 or Main Campus, MS-27
OFFICE HOURS: Posted on Website - www2.bakersfieldcollege.edu/jpierce
REQUIRED TEXTS: Visualizing Geology, Murak, Skinner, Mackenzie
(ISBN: 978-0-471-74727-7)
Appropriate substitute text: Essentials of Geology 9th ed.,
Lutgens and Tarbuck (ISBN: 0-13-149749-9)
Cornell Note Taking handbook, Pierce, 2008 (OPTIONAL)
CLASS MEETINGS: Tuesday Evening 6:00 to 9:10 pm
DST 109

COURSE DESCRIPTION (Catalog description)

An introduction to the principles of geology with emphasis on the structure and origin of the earth, its present and past landscapes and the processes at work changing its surface. Students desiring laboratory experience should either substitute GEOL B1a or enroll in GEOL B10L concurrently with GEOL B10. **Prerequisite:** Reading level 5 or 6. **Hours:** 54 lecture, At least one Saturday field trip of equivalent required. **Offered:** F,S CCS: Liberal Arts and Sciences. **Transferable:** UC, CSU and private colleges. **Note:** Not open to students who have taken GEOL B1a. BC GE B.1; CSU GE B.1 IGETC 5.A.

COURSE OBJECTIVES (Student Learning Outcomes - SLOs)

1. **Demonstrate a knowledge of and recognize the processes that explain natural phenomena**
 - a. Understand the rock cycle and describe various geologic environments that form igneous, sedimentary and metamorphic rocks
 - b. Understand basic geologic processes that shape the earth's surface
 - c. Understand the theory of plate tectonics and how various tectonic plate interactions produce geologic environments and their associated rock types (igneous, sedimentary and metamorphic)
2. **Apply methodologies of science when approaching a problem**
 - a. Understand and apply the various steps in the scientific method that lead to the "accuracy" of geologic processes explained in lecture and the textbook
 - b. Understand the differences between the concept of uniformitarianism and catastrophism and how these concepts relate to origin and age of the earth.
3. **Apply logical quantitative and qualitative reasoning in solving problems or analyzing argument**
 - a. Understand the development of the geologic time scale and problems associated with the time scale when applied to 4.6 billion years of earth history.
 - b. Understand man's place in earth's geologic history and how man has impacted the earth's spheres.

ATTENDANCE POLICY

In order to perform well on exams and quizzes, students find that regular class attendance is necessary. Instructional material and discussions will be presented in class that cannot be found in the text. If you are absent, you must consult with the instructor the **FIRST DAY UPON YOUR RETURN** to class if you wish the absence to be excused. On the day of an absence, please call the instructor at 395-4391 or email the instructor (jpierce@bakersfieldcollege.edu). Getting an education is like having a job. Treat this class like a position of employment- call and be a responsible student.

State education codes for community colleges (unlike 4-year colleges) require instructors to maintain attendance records. If you are absent the equivalent of two weeks, (4 or more lecture hours, or 2 or more labs, or a combination thereof) you may be dropped from the course. If this occurs after completion of 75% of the course, you will receive a failing grade.

WITHDRAWAL FROM THE COURSE

If you decide to discontinue the course for ANY reason, please make an official withdrawal. If you fail to officially withdraw from a class, which you are no longer attending, you may receive an "F" on your transcript. The Bakersfield College catalog states:

"Students are responsible for officially withdrawing from any class or classes in which the student no longer wishes to be enrolled. Non-attendance does not release the student from this responsibility."

STUDENTS WITH DISABILITIES

"Students with disabilities who believe they may need accommodations in this class are encouraged to contact Disabled Student Programs & Services (661-720-2001), Delano Campus, Room 1001, as soon as possible to better ensure such accommodations are implemented in a timely fashion."

STUDENT TUTORING

Tutoring Center

Every student is entitled to tutoring services located at the Delano Learning Center. It is your responsibility to maintain a record of your progress and success in the course. If you are falling below your expectations, it is advisable to make an appointment with the instructor or seek assistance at the Learning Center.

ACADEMIC HONESTY

Academic dishonesty (cheating, plagiarism, copying assignments/tests) will not be tolerated and guilty parties will receive an "F" on any assignments and will be subjected to the disciplinary policies outlined in the Bakersfield College handbook.

LECTURE EVALUATION

Exams

There will be 2 major one-hour exams and 1 final exam. See schedule below for dates of exams and final exam. All exams will consist of a combination of multiple choice questions, fill-in-the-blank, short answer and your choice of essay question. Each exam is a closed book and closed note exam. For each exam, students will need to provide their own scantron for multiple choice answers (Scantron form 882-E) and at least 2 8x11 sheets of blank paper.

Quizzes

There will be 3 quizzes administered throughout the semester (See quiz schedule). Each quiz will cover the previous week's material and will be given at the end of the lecture hour on Tuesday. At the end of the semester, the instructor will drop the lowest scored quiz before calculating the final grade. Students will **NOT** be able to use notes or a "cheat sheet". In other words, all quizzes are completed with closed notes and closed books. *"By failing to prepare, you are preparing to fail."* - Benjamin Franklin

Make-up Exams/Quizzes

All exams are given once. If an exam is missed, the student will be expected to make up the exam the day the student returns to class - No Exceptions!!! Additionally, the makeup exam will not be the same exam previously administered. All quizzes are given **ONLY ONCE! NO MAKEUP QUIZZES WILL BE GIVEN.** If you miss a quiz, the instructor will count the missed quiz as your lowest score at the end of the semester.

Geology Preps (GP)

G-prep (GP) chapter worksheets will be given to students prior to the upcoming lecture. All GP's will only be accessible on the instructor's website (www.2bakersfieldcollege.edu/jpierce) It will be the student's responsibility to access each GP. GP sheets are designed to allow the student to use their text book and preview lecture material before class discussion on that particular topic. Each GP will be due the following week at the end of Tuesday's lecture. Your completed GP will consist of the downloaded GP (blank) and your answers on separate pieces of paper which is **STAPLED TOGETHER !!!**. (See the Geology lecture schedule for due dates of GP). **The instructor will not accept late E-preps.**

Poster Board presentation

At the end of the semester, each student will display a poster board that illustrates various Geologic topics provided by the instructor. During week 3, the instructor will present specific guidelines for student poster board presentations and topics that students may choose. By week 3, students should be ready to choose their topic. For extra credit, students can present their poster board to the class during week 15. Student's participating in the poster board extra credit activity will have their names drawn to present their poster. Poster board presentations will take place the entire hour and half (half of the Tuesday's lecture).

HOMEWORK

Geology is a subject that cannot be learned passively by simply reading a book. Learning, assimilating the information and finding interest in the earth, requires active participation both in the class and **ON YOUR OWN**. Students should answer end-of-the-chapter questions. Although I will not collect the end-of-the-chapter questions, I encourage you to complete chapter

questions and make sure you understand the vocabulary as well as the concept. Additionally, I encourage students to properly use their Cornell Notes as study guides. You will almost certainly see various test questions on geological concepts discussed in the questions at the end of each chapter as well as questions developed from your Cornell Note handbook. I strongly encourage your own questions in class as well --- There are no dumb questions.

GRADING

Your final grade is based on the following percentage breakdown:

Lecture evaluation

Exams	40%
Quizzes	25%
G-preps	15%
Poster board	20%
Total	100%

Earth Science Lecture Schedule

Week 1	Aug 25 - Attendance, Syllabus, Course Overview
Week 2	Sep 1- Earth as a Planet - Chp 1 GP 1 DUE
Week 3	Sep 8 - Earth Materials - Chp 2 - Poster Board guide - GP 2 DUE
Week 4	Sep 15 - Geologic Time - Chp 3 - GP 3 DUE
Week 5	Sep 22 - Plate Tectonics - Chp 4 - GP 4 DUE - <u>QUIZ 1 (weeks 1-4)</u>
Week 6	Sep 29 <u>EXAM-1 (weeks 1-5)</u>
Week 7	Oct 6 Earthquakes, Chp 5 GP 5 DUE
Week 8	Oct 13 - Volcanoes and igneous rocks - chp 6 - GP 6 DUE
Week 9	Oct 20 Weathering, erosion - Sedimentary rocks chp 7/8 GP 7 DUE
Week 10	Oct 27 Folds, Faults and Geologic Maps, Chp 9 GP 8 DUE
Week 11	Nov 3 Metamorphism, Chp 10 GP-9 DUE Quiz 2 (weeks 7-11)
Week 12	Nov 10 <u>EXAM-2 (weeks 7-11)</u>
Week 13	Nov 17 - Desert, Glaciers and Climate Change Chp 13, GP 10 DUE
Week 14	Nov 24- Earth resources, Chp 15 GP 11 DUE
Week 15	Dec 1 Poster Board Presentations/Final Exam review <u>QUIZ 3 (weeks 10-14)</u>
Week 16	Dec 8 - <u>COMPREHENSIVE FINAL EXAM-December 8th - 6:00 - 7:50 pm</u>

**** Instructor reserves the right to change any section or part of the syllabus.**

SYLLABUS ACKNOWLEDGMENT

Please print the following information and return your syllabus acknowledgement to the instructor at the beginning of class on Week 2.

Date: _____

Name: _____

Phone # _____

Email address: _____ (Print Clearly !!!!)

1. I have thoroughly read the geology lecture syllabus for GEOL B10.
2. I understand the policies, requirements and expectations for this course.
3. I understand the grading procedure (quiz and exam dates, breakdown of grade percentages).
4. I understand that I am responsible for dropping myself from this course should I stop attending GEOL B10 (CRN 31703).
5. I understand that success in GEOL B10 is directly related to my attendance, completing assignments on time and adequate STUDY and preparation time.

Student signature: _____

Assignment 1 - Turn in with syllabus acknowledgment

Letter to your geology instructor
Jack Pierce

I would like you to write a **ONE page** letter to me, Jack Pierce. In your letter, I would like you to describe why you are taking this geology class. Additionally, tell me your science background (science classes you have taken), various math classes taken, your college major and what you would like to get out of a geology class. Please provide a double spaced, type written letter.

