

CASPER COLLEGE COURSE SYLLABUS GEOL 1100 LAB, SECTION LA & LB

Semester/Year: Fall 2015

Lecture Hours:

Lab Hours: 2Lb

Credit Hours: 0Cr

Class Time: 9:00-11:00 a.m. or 11:00-1:00pm **Days:** Thursday

Room: TM 121

Note: you **must attend and pass** a lab section to complete the requirements for Geology 1100.

Instructor's Name: Dr. Kent Sundell,

Instructor's Contact Information:

Office: Tate Museum, room 103:

Office Phone: 268-2498

307-259-5258 (cell-text)

Please call prior to 10:00 pm.

Email: ksundell@caspercollege.edu

Office Hours: MWF 8-8:50am

MW 12-1:00pm

COURSE DESCRIPTION: Geology 1100 Lab is a hands-on set of samples and exercises to help familiarize the introductory student with common minerals, rocks, maps, and geologic phenomena observable and in a lab setting.

COREQUISITE: GEOL 1100 lecture

GENERAL OBJECTIVES: This lab introduces students to physical geology in a laboratory setting with a hands-on approach.

SPECIFIC OBJECTIVES: The introductory student of geology will learn how to identify most common crystals, minerals, and rocks found in nature. Additionally, the student will learn how to read and use many types of topographic and geologic maps.

GOALS and OUTCOMES: Use the Scientific Method to solve problems using critical thinking and creativity.

1. Demonstrate effective oral and written communication
2. Use the scientific method
3. Solve problems using critical thinking and creativity

The outcomes will be assessed by testing, problem solving, writing, pictorial, and oral dialogue between the instructor and student throughout the course.

METHODOLOGY: This course will consist of a series of laboratory exercises, demonstrations, and discussions designed to supplement the physical geology lecture.

EVALUATION CRITERIA: Student evaluation will be as objectively as possible through the use of weekly exercises and regularly scheduled exams. Hands on participation in the lab is the only way to learn how to identify rocks and minerals. Therefore, students will be expected to attend each and every lab meeting.

APPROXIMATE POINT DISTRIBUTION

Lab is approximately **25%** of your final grade

14 - Attendance and weekly exercise (15 points/lab) 210 points

4 - Rock and mineral tests (15 points each) 60 points

TOTAL POINTS POSSIBLE: Approximately **270 points**

Grade Cutoffs: A: 90%+; B: 80-89%; C: 70-79%; D: 60-69%; F: <60%

REQUIRED TEXT: Laboratory Manual for Introductory Geology by Ludman & Marshak; other instructional materials may be assigned from time to time.

Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly.

Student Rights and Responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head, then the School dean, and lastly the vice president for academic affairs.

Academic Dishonesty - Cheating & Plagiarism: Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct.

ADA Accommodations Policy: It is the policy of Casper College to provide appropriate accommodations to any student with a documented disability. If you have a known accommodation in this course, please make an appointment to see me at your earliest convenience. To request academic accommodations, students must first consult with the College's disability Services councilor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu

The topics below are listed in the order in which we will study them. **We may go faster or slower than the indicated dates.** You will be responsible for material covered up to the date of the exam.

WEEK of	TOPIC		READING
Aug. 24	No lab this week		Ludman
Aug. 31	Lab 1. Topographic Maps and Air Photos.		Ch. 8 & 9
Sep. 7	Lab 2. Plate Tectonics.		Ch.2
Sep. 14	Lab 3. Minerals I		Ch.3
Sep. 21	Lab 4. Minerals II		Ch.3
Sep. 28	Lab 5. Igneous Rocks		Ch. 4, 5
Oct. 5	Lab 6. Sedimentary Rocks. (minerals test)		Ch. 6
Oct. 12	Lab 7. Metamorphic Rocks. (igneous test)		Ch. 7
Oct. 19	Lab 8. Volcanoes		Ch. 5 & Lec. notes
Oct. 26	Lab 9. Geological time. Geologic history. (Metamorphic test)		Ch. 17 & Lec. notes
Nov. 2	Lab 10. Structural Geology I		Ch. 15
Nov. 9	Lab 11. Structural Geology II		Ch. 15
Nov. 16	Lab 12. Streams		Ch. 10
Nov. 23	Fall Break Nov. 25-27 No Class.		Ch. 9
Nov. 30	Lab 13. Fieldtrip to Casper Mountain.		
Dec 7	Lab 14. Glaciers		Ch. 11
Dec 14	Finals Dec. 14-17 No Final Exam or class.		