Semester/Year: Spring 2016
Lecture Hours: Lab Hours: 2Lb Credit Hours: 0Cr

Class Time: 9:00-10:50 a.m. or 6:00-7:50pm Days: Thursday morning or Monday night
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:  Exercises in Physical Geology by Hamblin and Howard; 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.

<table>
<thead>
<tr>
<th>WEEK of</th>
<th>TOPIC</th>
<th>READING</th>
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<tbody>
<tr>
<td>Jan. 18</td>
<td>No lab this week</td>
<td>Hamblin</td>
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<tr>
<td>Jan. 25</td>
<td>Lab 1. Topographic Maps and Air Photos.</td>
<td>Ch. 7</td>
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<tr>
<td>Feb. 1</td>
<td>Lab 2. Plate Tectonics.</td>
<td>Ch. 18, 19, 20</td>
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<td>Feb. 8</td>
<td>Lab 3. Minerals I</td>
<td>Ch. 1, 2</td>
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<td>Feb. 15</td>
<td>Lab 4. Minerals II (No Monday class Feb 15th)</td>
<td>Ch. 1, 2</td>
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<td>Feb. 22</td>
<td>Lab 5. Igneous Rocks</td>
<td>Ch. 3</td>
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<td>Feb. 29</td>
<td>Lab 6. Sedimentary Rocks. (minerals test)</td>
<td>Ch. 4</td>
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<td>Mar. 7</td>
<td>Lab 7. Metamorphic Rocks. (igneous test)</td>
<td>Ch. 5</td>
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<td>Mar. 14</td>
<td>Spring Break March 14-18th No Classes</td>
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<td>Mar. 21</td>
<td>Lab 8. Volcanism. (sedimentary test)</td>
<td>Ch. 22 &amp; Lec. notes</td>
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<td>Mar. 28</td>
<td>Lab 9. Geological time. Geologic history. (Metamorphic test)</td>
<td>Ch. 6</td>
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<td>Apr. 4</td>
<td>Lab 10. Structural Geology I</td>
<td>Ch. 16</td>
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<td>Apr. 11</td>
<td>Lab 11. Structural Geology II</td>
<td>Ch. 16</td>
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<td>Apr. 18</td>
<td>Lab 12. Streams</td>
<td>Ch. 9</td>
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<td>Apr. 25</td>
<td>Lab 13. Glaciers</td>
<td>Ch. 12 &amp; 13</td>
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<td>May 2</td>
<td>Lab 14. Fieldtrip to Casper Mountain.</td>
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<td>May 9</td>
<td>Finals May 9-12 No Final Exam or class.</td>
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