**GEO 1010**  
**INTRODUCTION TO GEOLOGY**  
**SECTIONS 007, 008, DIST. ED.**  
**FALL 2008**

**Professor:** Dr. Michael Bunds  
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Course websites: [http://research.uvsc.edu/bunds](http://research.uvsc.edu/bunds) and [https://uvlinx.uvu.edu/lumlogin/lumlogin.aspx](https://uvlinx.uvu.edu/lumlogin/lumlogin.aspx)  
Office hours: Tuesday & Thursday 11:15 – 12:15, Wednesday 10:30 – 11:30, and by appointment

**TENTATIVE CLASS SCHEDULE**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Reading Chapter</th>
<th>Recommended textbook problems</th>
<th>Etc.</th>
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| Aug 27-29  | Introduction  
Earth's spheres, plate tectonics  
Prelude        | Ch. 1           | Ch. 1: 7, 8, 14-20           |                             |
| Sep 2-5    | Plate tectonics  
2             | Ch. 2: 2, 5-7, 10-18, 21-23 | Labor Day Holiday  
9/1; Quiz 1                 |                             |
| Sep 8-12   | Plate tectonics continued;  
Minerals        | Ch. 3: 1, 2, 7-10, 12, 14 | Quiz 2                      |                             |
| Sep 15-19  | Igneous rocks  
Interlude A  
4             | Ch. 4: 1-9       | Quiz 3                      |                             |
| Sep 22-26  | Igneous processes (volcanoes &  
plutonism)       | Ch. 7: 1-4, 8-10 | Exam 1: Chapters  
1-4 (tent.)                 |                             |
| Sep 29-Oct 3 | Weathering and sedimentation  
5             | Ch. 5: 1-4       |                             |                             |
| Oct 6-10   | Sedimentary rocks  
5             | Ch. 5: 7, 8, 10, 12, 15-18 | Quiz 4                      |                             |
| Oct 13-17  | Metamorphism and metamorphic rocks  
Interlude B  
6             | Ch. 6: 1-7, 11, 12 | Fall Break 10/16-17  
Quiz 5                     |                             |
| Oct 20-24  | Earthquakes  
8             | Ch. 8: 1-3, 5-12 | Exam 2: Ch. 5-7  
(tent.)                    |                             |
| Oct 27-31  | More Earthquakes  
8             | Review chapter 8 |                             |                             |
| Nov 3-7    | Deformation of the crust and mountain building  
9             | Ch. 9: 2-11      | Quiz 6                      |                             |
| Nov 10-14  | Geologic Time  
10, 11         | Ch. 10: 1-4, 6-9  
Ch 11: 3, 5-9, 11, 13 | Quiz 7                      |                             |
| Nov 17-21  | Landslides and Mass Wasting  
13            | Ch. 13: 1-9      | Exam 3: Ch. 8-11  
(tent.)                   |                             |
| Nov 24-25  | Surface water processes: rivers  
Ground water  
14, 16         | Ch. 14: 1, 3, 6, 7, 10-13, 16, 17  
Ch 16: 1-3, 5, 6, 8-11 |                             |                             |
| Dec 1-5    | Glaciers  
18            | Ch. 18: 1, 2, 4-12 | Quiz 8                      |                             |
| Dec 8-12   | Geologic Resources  
12            | Ch. 12: 1, 2, 4, 5, 7-9, 12, 14, 17, 18, 20-22 | Quiz 9; Study day  
12/12                  |                             |
| Dec 15-18  | Finals:  
Section 007: Weds. 12/17 1-3pm  
Section 008/DE: Thurs. 12/18 1-3pm | Finals are in the classroom where lectures are held, at the official time | Finals are comprehensive.  
Approx.: 50% Comprehensive  
50% Ch.  
12,13,14,16,18 |                             |

**REQUIRED TEXTBOOK**  
SCOPE AND FORMAT OF THE COURSE

Geology 1010 is meant to be fun, challenging and educational. During the semester we will study diverse aspects of geology such as plate tectonics, the formation of common rocks and minerals, volcanism, earthquakes, landslides and glaciers. Questions and discussions amongst the entire class during lectures are encouraged, and because questions and discussions take up class time, the schedule on the previous page may need to be modified.

Your grade for the class will be based primarily on your scores on quizzes and exams – there is no mandatory homework. However, during the semester, you will be expected to attend class, do readings and other homework assignments from the textbook, carefully answer study questions given out in class, and prepare for quizzes and exams. It is very unlikely that you will do well on the quizzes and exams without completing these tasks. The course grading scheme is designed to provide opportunities for you to succeed in the course, and in the event that you do poorly on an exam, the “Midterm Insurance” may help you avoid a complete catastrophe (be sure to read the section on Midterm Insurance below).

COURSE WEBSITES

The two websites listed below are associated with this class.

http://research.uvsc.edu/Bunds This is my homepage and from it you can get to the GEOL 1010 website for this class. On the site you will find class handouts, the syllabus, study guides, directions to field trip meeting places and other materials. You cannot access your exam scores from this website.

http://uvlink.uvu.edu/cp/home/login This url (web address) is the UVLink portal, and through it you can get to your class Blackboard Vista pages. Once you are registered for this class, you will be able to access the Blackboard page for this class, where you will find your quiz and exam scores, but all other class materials are on the research.uvsc.edu/bunds site.

GRADING

Your grade will be based on 4 exams (3 midterms and a comprehensive final), your best 7 out of 9 quizzes, approximately 2 in-class assignments and any extra credit or bonus points you earn (described in following sections).

Quizzes: 7 @ 2 points each => 14% of grade from quizzes (lowest 1 or 2 quiz scores are dropped)
In class ex. 2 @ 1% each  => 2% of grade from in class exercises (approximate)
Midterms: 3 @ 20 points each => 60% of grade from midterms
Final: 1 @ 25 points  => 25% of grade

Total => 101 percent (+ any extra credit and bonus points)

Your letter grade for the class and all assignments will be based on the following scale:

A = 94 - 100%  B+ = 87 - 89.9%  C+ = 77 - 79.9%  D+ = 67 - 69.9%  E < 60%
A- = 90 - 93.9%  B = 83 - 86.9%  C = 73 - 76.9%  D = 63 - 66.9%
B- = 80 - 82.9%  C- = 70 - 72.9%  D- = 60 - 62.9%

The highest score obtained by a student on any given exam and for the entire semester in the class counts as 100%, and your score is calculated as follows:
your percentage = (your score) / (highest score) x 100. For example, if the high score on a midterm is 47 points and you score is 38, your percentage would be 81.0% , good for a B-.

Quizzes are short (about 10 minutes), take place at the beginning of class and may be unannounced. It is your responsibility to attend class so as not to miss them, and to arrive on time to class - if you arrive late, you will not be allowed to take the quiz. 7 quizzes will count towards your grade; your lowest two quiz scores will be dropped if we complete 9 quizzes (only 1 quiz will be dropped if we complete only 8 quizzes).

Midterm exams will be available at the testing center for UVU campus students. Distance site students will take the midterms during regular class time. The exact dates of the midterms will be announced in class. It is your responsibility to attend class and keep abreast of exam and quiz dates. All three midterm exams count towards your grade. Which chapters each midterm will cover will be announced in class; the chapters listed on the front page of the syllabus are tentative only. Midterm scores below 70% may be supplemented by submitting insurance homework (see below).

The Final exam will be comprehensive, but with emphasis on the material that we'll cover after the 3rd midterm. No 'insurance' will be available for the final exam.

MAKE UPS: You are expected to treat college classes like a job and to take exams and quizzes at the regularly scheduled time. Plan your vacations and other activities so that they do not conflict with your classes. If something unforeseen and important prevents you from taking an exam at the regular time, contact Dr. Bunds (801.863.6306) or the Earth Science secretary (801.863.6295) before the end of the test period so we can work something out. No make-ups will be granted after the end of a test period. There will be no make-ups on quizzes because your two lowest quiz scores are dropped from your grade.

HOMEWORK: Your grade in this class will be based primarily on quizzes and exams. However, there is homework associated with the class; much of it you are not required to hand in for a grade (although you may want to; see ‘Midterm Insurance’

Introduction to Geology Syllabus, Fall 2008
Please be aware that it is unlikely you will pass this class without carefully completing and reviewing all of the homework because the exams are drawn from the homework – both the optional and required homework. All in all, the homework falls into the following 3 categories.

1. Problems from the textbook (handing-in not required). On this syllabus, you are assigned some of the questions from the end of each chapter in your textbook. You are expected to complete all of these questions and to be prepared to answer similar or related questions on quizzes and exams. Note that the chapters covered by each midterm will be announced in class; the chapters listed on this syllabus are tentative and likely to change. Review questions and problems that are assigned on this syllabus comprise part of the Midterm Insurance (see below).

2. Questions on the study guides written by Dr. Bunds. The exams are drawn from these questions and they probably are your best study aid. They also are part of the Midterm Insurance described below. You will find that many of them tie together several concepts and require multi-sentence answers. Others ask you to draw sketches. Many of these questions are meant to be difficult. If you don't understand them, ask me during office hours, by email (distance students), or after class. The exams will ask you to reproduce some of the sketches and be able to explain the concepts that the sketches illustrate.

**MIDTERM INSURANCE:** TO ENSURE AT LEAST A C- ON EACH MIDTERM READ ON.

If you score below a C- on a midterm, you may be able to raise your midterm score by turning in the study guide and chapter questions that apply to a midterm before the end of the testing period. To get points equal to a C- (70%) on a midterm do the following. Correctly and completely answer in complete sentences all the questions on the study guide that apply to the midterm, and the recommended questions from the textbook (i.e., the first two types of suggested homework described above). You must turn your work in to me before the end of the test period. The answers must be neatly handwritten, in complete sentences, in your own words on a sheet of paper separate from the handout. You will be awarded a 70% score for the exam if the questions are complete and correct; work that is incorrect, incomplete, illegible, overly similar to other student's work, or otherwise substandard will earn (far) fewer points. Insurance is not available for the quizzes or final exam. **Do not expect to earn a C- in the course using only insurance** – you also must pass the quizzes and final. Preliminary study guides are available on the class website, and preliminary lists of recommended textbook questions for each chapter are listed on the class schedule above. **Photocopy all of you insurance homework.**

**BONUS POINTS:** Unannounced bonus points will be awarded during the semester. Bonus points may be awarded simply for attendance, an in-class activity, an extra pop quiz, or watching an in-class movie. Bonus points can not be made up. If you miss class, you may miss out on bonus points.

**EXTRA CREDIT:** Up to three extra credit assignments may add one percentage point each to your total course score. Satisfactorily completing three extra credits normally raises your grade at least one increment (i.e., from a B+ to an A-). Assignments entail a one-page summary of a magazine article, web article or book that involves Earth Science, attending and submitting a summary on a UBV Earth Science seminar, or attending a field trip. The web links section on the class website is a good place to start looking for information sources. The summary must be handwritten and must include the article; substandard work will receive reduced points. **All extra credit work is due (submitted to me, Distance Ed. or your facilitator) by Wednesday, December 10 – NO EXCEPTIONS.**

**FIELD TRIPS:** There will be several one to two hour field trips that you are encouraged to attend. The field trips are fun, relaxed, educational, and you receive extra credit for attending. The dates and times of the trips will be announced in class. More information on the field trips can be found on the class website (http://research.uvsc.edu/Bunds).

**GENERAL STUDENT RESPONSIBILITIES:** Your grade for this course will be determined primarily from your score on the exams and assignments. However, you must fulfill other responsibilities as well. Student responsibilities at UVU are described in the course catalog; below a few of particular significance to this course are outlined.

1. Attendance is not required but is strongly encouraged for this course. Quizzes and other activities may be unannounced and much of the exam material is drawn from lectures. Furthermore, it is your responsibility to be aware of announcements made in class.

2. Disruptive, dangerous or otherwise inappropriate behavior in the classroom, fieldtrips or during any activity related to the class may result in a failing grade for the class and appropriate penalties from the College.

3. Any form of cheating, including plagiarism, may result in an immediate F for the course or at the least the assignment and appropriate penalties from the College.

**ATTENTION STUDENTS WITH DISABILITIES:** If you have any disability which may impair your ability to successfully complete this course, please contact the Accessibility Services office, 863-8747, BU 146. Academic accommodations are granted for all students who have qualified documented disabilities. All services are coordinated with the Accessibility Services office.