**GEO 1080**  
**INTRODUCTION TO OCEANOGRAPHY**  
**SECTIONS 001 & 002**  
**FALL 2008**

**Bathymetry of the North Atlantic Ocean**  
**Mavericks**

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Office hours: Tuesday & Thursday 11:15 – 12:15, Wednesday 10:30 – 11:30, and by appointment

<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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<tbody>
<tr>
<td>Aug 27-29</td>
<td>Introduction, overview of oceans</td>
<td>1</td>
<td>Ch. 1: 2, 5, 6, 8-11</td>
<td>Labor Day Holiday 9/1; Quiz 1</td>
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<tr>
<td>Sep 2-5</td>
<td>Plate tectonics and the ocean basins</td>
<td>2</td>
<td>Ch. 2: 6-11, 13, 14</td>
<td>Quiz 2</td>
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<tr>
<td>Sep 8-12</td>
<td>More Plate tectonics and the ocean basins</td>
<td>2</td>
<td></td>
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<td>Sep 15-19</td>
<td>Marine provinces</td>
<td>3</td>
<td>Ch. 3: 1-6, 8-10, 12</td>
<td>Quiz 3</td>
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<tr>
<td>Sep 22-26</td>
<td>Marine sediments</td>
<td>4</td>
<td>Ch. 4: 1-6, 11, 13, 15</td>
<td>Exam 1: Chapters 1-4;</td>
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<tr>
<td>Sep 29-Oct 3</td>
<td>More marine sediments</td>
<td>4</td>
<td></td>
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<td>Oct 6-10</td>
<td>Ocean water chemistry</td>
<td>5</td>
<td>Ch. 5: 1-9, 12, 14-17, 20</td>
<td>Quiz 4</td>
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<td>Oct 13-17</td>
<td>More ocean water chemistry</td>
<td>5</td>
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<td>Fall Break 10/16-17; Quiz 5</td>
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<tr>
<td>Oct 20-24</td>
<td>Air – sea interactions</td>
<td>6</td>
<td>Ch. 6: 1-9, 11-16</td>
<td>Exam 2: Chapters 5-8</td>
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<tr>
<td>Oct 27-31</td>
<td>More air-sea interactions</td>
<td>6</td>
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<td>Nov 3-7</td>
<td>Ocean currents</td>
<td>7</td>
<td>Ch. 7: 1, 4, 6, 8-16</td>
<td>Quiz 6</td>
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<tr>
<td>Nov 10-14</td>
<td>Waves</td>
<td>8</td>
<td>Ch. 8: 1, 3-5, 7-16</td>
<td>Quiz 7</td>
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<tr>
<td>Nov 17-21</td>
<td>Tides</td>
<td>9</td>
<td>Ch. 9: 1-5, 7-9, 11-14</td>
<td>Exam 3: Ch. 9-11</td>
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<tr>
<td>Nov 24-25</td>
<td>Beach processes and the coastal ocean</td>
<td>10, 11</td>
<td>Ch. 10: 1, 3, 5-7, 11, 14, 16</td>
<td>Thanksgiving break 11/26-28</td>
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<tr>
<td>Dec 1-5</td>
<td>Marine habitats &amp; ecosystem</td>
<td>12, 13</td>
<td>Ch. 12: 1, 2, 4-7, 11</td>
<td>Quiz 8</td>
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<tr>
<td>Dec 8-12</td>
<td>Benthic &amp; pelagic marine animals</td>
<td>14, 15</td>
<td>Ch. 14: 1, 4, 5, 7, 8, 17</td>
<td>Quiz 9; Study day 12/12</td>
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<td>Dec 15-18</td>
<td>Finals: Section 001: Tues. 12/16 9-11am</td>
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<td>Finals are in the classroom where lectures are held, at the official time</td>
<td>Approximately 50% Ch. 1-8</td>
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<td></td>
<td>Section 002: Mon. 12/15 11-1pm</td>
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<td>Finals are comprehensive.</td>
<td>50% Ch. 9-15</td>
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**REQUIRED TEXTBOOK**  
SCOPE AND FORMAT OF THE COURSE
Geology 1080 is meant to be fun, challenging and educational. During the semester we will study diverse aspects of oceanography such as plate tectonics, provinces of the oceans, seafloor sediments, waves, tides and more. 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 1080 website for this class. On this 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/loginf  This url (web address) is the UVLink portal, and through it you can get to your class Blackboard/WebCT pages. Once you are registered for this class you will be able to access the 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, 2 in-class assignments and any extra credit or bonus points your 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%

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.
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’ below), and some of it you are required to hand in. **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 (handing-in not required). A study guide will be supplied for each exam. The study guide will contain a brief outline of the material covered in class as well as a set of study questions that supplement the review questions and problems in the textbook.

**MIDTERM INSURANCE:** TO ENSURE AT LEAST A C- ON EACH MIDTERM READ ON.
To guarantee 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 (review questions and problems) from the textbook (chapters covered by each midterm will be announced in class; lists on the front of this syllabus are only tentative). You must turn your work in **before the end of the test period.** The answers must be neatly **handwritten,** in complete sentences and **in your own words** on a sheet of paper separate from the handout. Work that is incorrect, incomplete, illegible, overly similar to other student's work, or otherwise substandard will earn less than 70%. **The idea is to do the questions, learn the material and get better than a C- on the exam!** Insurance is not available for the quizzes or final exam, so do not expect to earn a C- in the course using only insurance – you also must pass the quizzes and final. Preliminary lists of recommended textbook questions for each chapter are listed on the class schedule above, and preliminary study guides are available on the class website. **Be sure to photocopy your work before submitting it.**

**BONUS POINTS**
Unannounced bonus points may be awarded during the semester. Bonus points may be awarded simply for attendance, an extra pop quiz, or watching an in-class movie. 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 UVU 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 by Wednesday, December 10 – **NO EXCEPTIONS.**

**FIELD TRIPS:** There will be 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 scores on the exams and assignments. However, you must also fulfill other responsibilities as described in the UVU course catalog; below a few of particular significance to this course are outlined.

1. Attendance 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 University.
3. Any form of cheating, including plagiarism, may result in an immediate E for the course or at 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.