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Lecture: 9:00 - 9:50 MWF, Leonard 109
HomePage: http://www.und.nodak.edu/instruct/nforsman/geol101

Grading: Semester exams, three, totaling 50% of the grade; (lowest exam counts 10%, other
two exams count 20% each)
Comprehensive final exam counts 30% of the grade.
Special homework, quizzes and adherence to course policies is 10% of the grade
Compliance with the Knowledge Survey* process counts 10% of the grade
So, 10 + 20 + 20 + 30 + 10 +10 = 100

Course Objectives:
1. To gain an understanding of Earth— its materials, processes, systems, and history.
2. To help you understand how conclusions are reached in science.
3. To appreciate the relevance of geologic knowledge to ourselves and our societies.
4. To be able to communicate our geologic knowledge to others.

Order of Topics: Assigned Reading:

Course Introduction Chapter 1
Earth as a Planet Chapter 1
Minerals Chapter 2
Igneous Rocks Chapter 3
Volcanism Chapter 4
Weathering and Soil Chapter 5

Exam #1 — Wednesday, September 19

Sedimentary Rocks Chapter 6
Metamorphic Rocks Chapter 7
Geologic Time Chapter 18
Fossils Chapter 18
Streams Chapter 9

Exam #2 — Monday, October 15

Mass Wasting Chapter 8
Groundwater Chapter 10
Glaciers Chapter 11
Shorelines Chapter 13

Exam #3 — Wednesday, November 7

Earth Structures/Deformation Chapter 17
Earthquakes Chapter 14
Plate Tectonics Chapter 15
Resources ------------

Final Exam (comprehensive) — 8:00 a.m., Monday, December 10, room 109 Leonard Hall
Course Policies/Characteristics.

1. You must have the correct textbook.
2. Deadlines are important. Late work will receive no credit unless prior arrangements made.
3. Lecture attendance is important. Traditionally, students who miss lectures do not do well on exams in this course. You are responsible for obtaining the information presented during class time, regardless of your reason for missing class.
4. You are required to be present for exams. No makeup exams will be given.
5. You are encouraged to form study groups with your classmates.
6. All work turned in must be original: feel free to work together to understand homework assignments, but always turn in independent results. Do not copy from each other, and do not copy from the text or from the internet. Learn the material, then turn away from your classmate and close the book as you compose your answer. Any exceptions will be judged as cheating. Make yourself familiar with the UND Code of Student Life.
7. Do not turn in paper with frayed edges. If you use spiral notebook paper, trim it before turning it in. Also, staple pages—do not use "dog-ears". [buy a stapler]
8. All writing you turn in for this course must be written as if educating a layperson reader. This may seem a chore, but it will help your learning.
9. Keep track of all your scores.
10. This course receives General Education credit in Mathematics, Science, and Technology. Please review UND’s General Education goals described beginning on page 25 of the UND Academic Catalog. There will be assignments checking to see if you’ve done your part to meet the GER goals addressed by this course. Please be reminded that all writing you do in this course will be expected to meet a certain standard of competency and quality. If you have particular problems with writing, you are encouraged to seek assistance from the Writing Center, room 12 Merrifield Hall
11. There will be no “extra credit” to make up for earlier performance. “Extra” credit can be acquired only after mastery of material has already been demonstrated.
12. Each exam is semi-comprehensive. And the final exam is fully comprehensive. This means that tests may contain information from throughout the semester. Therefore recognize that long term retention comes from genuine understanding and an ability to visualize, as well as an ability to teach others. For best learning, try to engage the long-term memory "portion" of your brain. i.e., replace "memorization" with "visualization". Do a lot of writing, sketching, and talking about the information in this course. Writing as if to a layperson, especially, is a great way to consolidate information, to organize your memory for long-term storage and retrieval, to become an "owner" of information.

Additional Study tips:

You will learn many new terms and concepts in this course. Geology is a very visual science, so it helps if you can make your brain “see” what the geologic term is referring to. For instance, when learning the meaning of the word “tarn”, it helps if you can “see” a tarn in your mind’s eye. And this next tip is especially important: Always then connect the features (things) your are “seeing” with the processes that formed them. Remember this phrase: “always connect feature with process”. In this way, you can become an owner of knowledge, not just a memorizer of facts. Try always to see connections. Don’t simply memorize things just before exams.

It is a good idea to keep a list of new terms, and add to this list throughout the semester. You can go to each term or phrase in the list one at a time, and check yourself for level of understanding. Can you “see” the feature? Can you connect that feature with the process that formed it? Can you teach someone else about it?
My posted office hours this semester are 10:00-12:00 MWF. I am normally available at other times as well. I am also normally quick to respond to email. All students are welcome! to seek assistance from me, whether it be to check your notes, to clarify concepts, to suggest study aids, or to assist with homework. If you need help, please come and get it!

'The Knowledge Survey:

- Provides helpful feedback to instructors about the conduct of their course.
- Provides to students a complete disclosure of course contents and expectations.
- Provides a study guide for students.
- Is a good thing, with no real negatives for anyone.

To comply with the Knowledge Survey process, which is conducted on-line, you must first register at:

http://www.ks.und.edu/register.php

The instructions there are very clear, so just do what it says. And remember the personal password you choose; you’ll need it to take all the surveys this semester.

After registering, you will take Round 1 of the knowledge surveys, spaced throughout the semester, by going to:

http://www.ks.und.edu

Note that each knowledge survey will have a narrow time window for completion. Once the deadline for taking a given survey has passed, that survey can no longer be taken. The times and deadlines for surveys will be announced in class, and posted on the course homepage.

The knowledge surveys are not graded; that is, the answers you give do not affect your grade in any way. The Round 1 surveys are simply a “before” look at your understanding of topics in the course. Each knowledge survey discloses all of the topics that will be covered prior to the next exam. And the questions are worded in a way that reveals the instructor’s expectation of your understanding. So these surveys are very good study guides for exams. You should use these study guides frequently and repeatedly; they are a roadmap of the course, and will greatly assist you in learning the course material.

At the end of the semester, your “before” results will be compared with an “after” look; that is, just prior to the final examination, you will complete Round 2 of the knowledge survey, which repeats the questions from all the Round 1 surveys, but this time you’ll be answering those questions after having had the course.

This process helps inform instructors about how to adjust their coverage of topics. Results from student knowledge surveys may reveal that certain topics require little class time, or that other topics may require expanded treatment in class. So these surveys help instructors fine-tune their courses for student needs. The surveys are quite easy to take, typically requiring less than 15 minutes of a student’s time for each survey. And students can take them wherever they have access to the internet.

It is crucial that each student actually read and carefully consider each knowledge survey question before selecting an answer choice for that question. The process is otherwise of very little benefit to either the student or the department.