

PRINCIPLES OF GEOLOGY
GEOL 101 (Sections 528-535)

Dr. Grossman
Spring, 2006

LECTURE: T-Th 8:00-9:15 AM

OFFICE AND OFFICE HOURS: Halbouty 210 (845-0637) (My lab: Halbouty 204; 458-4486)
MTWTh 1:30 - 2:30 PM, or email or call me to set up a meeting

EMAIL: e-grossman@tamu.edu **When emailing me, put 101 in the subject heading or I may not see it.**

BOOKS: **Lecture: Tarbuck and Lutgens, Earth, 8th edition, 2005.** The Study Guide is not required or necessary. Used 7th editions are okay but try to get copy with CD.
Lab: Lab Manual in Physical Geology, 2nd ed, Modified from AGI/NAGT manuals (used copies not allowed)

WEB-PAGES: Course: geoweb.tamu.edu/courses/geol101/grossman/
Grossman: geoweb.tamu.edu/faculty/grossman/
Book:
8th edition: http://wps.prenhall.com/esm_tarbuck_earth_8 (if used, make sure it comes with CD)
(or 7th edition: http://wps.prenhall.com/esm_tarbuck_earth_7 with CD)
Class notes are linked to the course home page. This is a courtesy I provide and is not a substitute for class attendance. Notes will usually be a little out of date as I often update lecture materials minutes before class.

READING: Reading will be assigned for most class periods. You are expected to do the reading before coming to class, and are responsible for it on "pop" quizzes.

GRADING:

Tests (3)	50%	Final exam	20%
Quizzes	5%	Lab	25%

90- 100 = A, 80-89 = B, 70-79 = C, 60-69 = D, ≤ 59 = F

If necessary, test grades will be curved up so that the average grade is 77.

TESTS: There will be three tests during the semester plus a **cumulative** final exam. Tests are roughly 45% multiple choice, 10% true-false, 35% matching, and 10% fill-in. Copies of previous tests are on my home page. Exams are tentatively scheduled as follows:

1st exam: Tuesday, Feb. 14

3rd exam: Thursday, April 20

2nd exam: Thursday, March 23

FINAL: Monday, May 8, 1:00 – 3:00 PM

Highest Grade Award: The student with the highest grade on each test will win a special valuable award (one award per student). If you don't wish to be recognized, send me an email.

QUIZZES: There will be scheduled and unscheduled (pop) quizzes. Quizzes will be given on recent lecture material and on assigned reading. Pop quizzes will be given when it seems like you are not keeping up, when there is a lack of attention, or when there is an epidemic of early class departures!

LAB: **Lab sections begin meeting this week!** See your schedule for room numbers. Lab is **very** important and counts for **25%** of your grade in **this** class.

FIELD TRIP: There will be an optional half-day field trip tentatively scheduled for **Saturday, March 4** from 8:00 AM - 2:00 PM. Students satisfactorily completing the exercises on the field trip will get a quiz grade of 100. Students not on the field trip will be given a quiz on class material the following Tuesday.

MAKE-UPS: If necessary, one make-up exam will be given per test, with an acceptable university excuse (e.g., illness with doctor's excuse, out-of-town university event, etc.). It will be a **fill-in, short answer, and essay** exam. Students requiring make-ups should notify me **before** the exam by phone (and leave message) or by email. There are no make-ups for quizzes, but quizzes may be excused with an acceptable university excuse.

Follow-up courses: If you liked Principles of Geology, consider taking **Historical Geology** (GEOL 106), **Dinosaur World** (GEOL 307), **Global Change** (GEOS 410), **Oceanography** (OCNG 251) and **Oceanography Lab** (OCNG 252)

TENTATIVE COURSE OUTLINE AND READING ASSIGNMENTS:

WEEK	DATE	SUBJECT	CHAPTER (PAGES; 8 th ed.) (7 th ed.)
Introduction to Geology			
1	1/17	Introduction to class; Scope of Geology; Careers in the Geosciences; The Scientific Method; History of Geology*	1 (p. 1-4, 4-5*, 8-11) (p. 1-6, 8-12)
1	1/19	Introduction to Geologic Time, Origin of the Solar System*, Earth's Internal Structure	1 (p. 5-9, 293-296), (p. 17-19)* (p. 6-9) (p. 19-21)*
2	1/24	External Features; Introduction to Plate Tectonics	1 (p.19-26), 2 (p. 53-64) (p. 21-23, 17-19), (p. 23-28)
2	1/26	Minerals	3 (p. 76-105) (p. 33-58)
Minerals and Rocks			
3	1/31, 2/2	Igneous Rocks	4 (p. 108-134) (p. 63-87)
4	2/7, 2/9	Plutons and Volcanoes	5 (p. 162-168, 138-162, 168-179) (p. 115-121, 92-115, 121-127)
5	2/14	Test 1	
5	2/16	Weathering	6 (p. 182-196) (p. 133-149)
6	2/21, 2/23	Sedimentary Rocks	7 (p.210-239) (p. 159-186)
7	2/28	Metamorphic Rocks, Rock Cycle	8 (p. 242-268), 1 (26-31) (p. 189-210)
Geologic Time			
7	3/2	Relative time	9 (p. 270-284) (p. 215-226, 235-238)
8	3/7	Absolute time	9 (p. 284-293, 297) (p. 226-235)
Internal Processes			
8,9	3/9, 3/21	Crustal Deformation (Structural Geology)	10 (p. 300-323) (p. 417-439)
9	3/23	Test 2	
10	3/28	Earthquakes	11 (p. 327-357) (p. 443-471)
10	3/30	Seismic Waves and Earth's Interior	12 (p. 360-366, 374) (p. 475-482)
11	4/4, 4/6	Plate Tectonics	2 (p. 34-74) (p. 517-553), 20 (p. 574-579)
Surface Processes			
12	4/11	Groundwater	17 (p. 502-528) (p. 301-323)
12	4/13	Running Water (Streams)	16 (p. 466-500) (p. 265-297)
13	4/18	Deserts and Winds	19 (p. 568-587) (p. 363-377, 381-383)
13	4/20	Test 3	
14	4/25	Glaciers and Glaciations	18 (p.532-563) (p. 327-359)
14	4/27	Geology, CO ₂ , and Global Climate	21 (p. 631-635) (p. 127-129) and outside reading

*Not included in lecture

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Room B118 of Cain Hall (845-1637).

Copyright and Plagiarism Policy

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As commonly defined, plagiarism consists of passing off as one's own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.

If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, <http://student-rules.tamu.edu/>, under the section "Scholastic Dishonesty."

The **Aggie Code of Honor** is fundamental to the value of the A&M experience. Know the Aggie Code of Honor:

"An Aggie does not lie, cheat, or steal or tolerate those who do." <http://www.tamu.edu/aggiehonor/>