

GEO 1103.001
INTRODUCTION TO EARTH SYSTEMS
A level two, core curriculum course
Syllabus (Rev. 1)
Fall 2010

Lecture: M-W-F
3:00 to 3:50 p.m.
MB 0222

Instructor: Mr. Jeffrey S. Neathery
Lecturer

Email address: My official email address is jeffrey.neathery@utsa.edu.
If you have an emergency or need an urgent response, you can email me at jsn@neathery.com

Office: SB 2.03.02

Office Hours: TBA

Telephone: 710-6406

Required Textbook: Grotzinger, Jordan, and Siever (2007) Understanding Earth (5th edition). Freeman. ISBN: 13:978-0-7167-6682-7

Also available: Kresan & Mencke, Student study guide for Understanding Earth (5th edition). Freeman. ISBN: 0-7167-3981-X

Prerequisites: MAT 1023 or above

Objectives/Goals of the Course:

- Know fundamental concepts and information about the Earth you live on and about the interaction of humans and the planet.
- Develop an understanding of the physical and chemical processes that operate in the Earth system.

Basis of Grade: Semester grades will be based on the following:

	Percent of <u>final grade</u>
Exam 1	1/3
Exam 2	1/3
Final Exam	1/3

Extra credit may or may not be given. It is at the discretion of the instructor.

Attendance:

Your regular attendance at lectures and class participation will be important for you to be successful in this class. Learning the course material requires study of the assigned reading in the textbook and listening and understanding the topics presented in the lectures. Students who attend class regularly commonly do well in this course, while students who do not attend class regularly should expect to do poorly.

Nature of the Course Content:

The earth as a dynamic planet; relation of the earth's present processes to its resources, structure, and internal composition. Nature of minerals and rocks, the hydrosphere, tectonics, earthquakes, volcanism, and surface features of the earth. Concurrent enrollment in GEO 1111 recommended. May apply toward the Level II Core Curriculum requirement in science.

Exams:

Three hourly exams (multiple choices) will be given. The exams will be given in class and on the dates specified in the course schedule.

- If there is a scheduling problem with your attending an exam, you must arrange with the Instructor at least a week before the exam to schedule a make-up exam. **There will be no make-up exam unless advance arrangements have been made.** Make-up exams are given only under extenuating circumstances and are completely at the discretion of the Instructor.
- You will need to purchase and bring a Par SCORE test form for each quiz and exam. Only the ParSCORE No. X-101864 form can be used. These cost \$0.35 at the campus bookstore. A #2 pencil and an eraser will also be needed. This same form will be used for the other two exams in this course. Expect between 50 and 100 questions on each exam.

Students with a Disability:

If you may need special consideration because of a disability, I suggest you discuss your situation with me at the very beginning of the course. If you are registered with Disability Services and anticipate having your exams administered in a manner that varies from what other students will experience, I must, as early as practicable, be made aware of the special testing circumstances that you might require. It is essential that there be an agreement on an accommodation that is satisfactory to the needs of the student and reasonable, and not excessively burdensome to the conduct of the course. Information about Disability Services is available in the UTSA Information Bulletin.

Consult: utsa.edu/disability/students.htm

Academic Honesty:

Scholastic dishonesty is not tolerated; this includes plagiarism (unacknowledged incorporation of another's work as one's own work offered for credit), and collusion (unauthorized collaboration with another person in preparing course work offered for credit), and other cheating. Students are expected to understand and follow the UTSA Student Code of Conduct, specifically section 203 (<http://utsa.edu/infoguide/appendices.cfm>).

My position regarding scholastic dishonesty is that such behavior is intolerable. It is one of my obligations as a faculty member to do my best to assure that the performance of a student be evaluated fairly and that all students be treated similarly. Acts of scholastic dishonesty are inconsistent with both and will be dealt with severely. *"If you cannot be trusted in the small things, how can you be trusted in the big things?"*

COURSE SCHEDULE
GEOLOGY 1103.001 – Fall 2010

WK	DAY	DATE	CHAPTER	LECTURE TOPIC
1	Wed.	8/25	1	Class Introduction/The Earth System
	Fri.	8/27	1	The Earth System
2	Mon.	8/30	1-2	The Earth System/The Plate Tectonic System
	Wed.	9/1	2	The Plate Tectonic System
	Fri.	9/3	3	Minerals and Rocks
3	Mon.	9/6		Labor Day – No Class
	Wed.	9/8	3	Minerals and Rocks
	Fri.	9/10	3	Minerals and Rocks
4	Mon.	9/13	4	Igneous Rocks
	Wed.	9/15	4	Igneous Rocks
	Fri.	9/17	4	Igneous Rocks
5	Mon.	9/20	5	Sedimentation and Sedimentary Rocks
	Wed.	9/22	5	Sedimentation and Sedimentary Rocks
	Fri.	9/24	5	Sedimentation and Sedimentary Rocks
6	Mon.	9/27	6	Metamorphism
	Wed.	9/29	6	Metamorphism
	Fri.	10/1	6	Metamorphism
7	Mon.	10/4	1-6	Exam Review
	Wed.	10/6	1-6	EXAM 1 (Chapters 1-6)
	Fri.	10/8	7	Exam P.M./Rock deformation – Folding & Faulting
8	Mon.	10/11	7	Rock deformation – Folding & Faulting
	Wed.	10/13	7	Rock deformation – Folding & Faulting
	Fri.	10/15	8	Stratigraphy & Reading the Rock Record
9	Mon.	10/18	8	Stratigraphy & Reading the Rock Record
	Wed.	10/20	10	Evolution of the Continents
	Fri.	10/22	12	Volcanoes
10	Mon.	10/25	12	Volcanoes
	Wed.	10/27	13	Earthquakes
	Fri.	10/29	13	Earthquakes
11	Mon.	11/1	13	Earthquakes
	Wed.	11/3	15	The Climate System
	Fri.	11/5	15	The Climate System
12	Mon.	11/8	7,8,10,12,13,15	Exam review
	Wed.	11/10	7,8,10,12,13,15	EXAM 2 (Chapters 7,8,10,12,13,15)
	Fri.	11/12	16	Exam P.M./ Weathering of Soils
13	Mon.	11/15	16	Weathering of Soils
	Wed.	11/17	16	Weathering of Soils
	Fri.	11/19	17	The Hydrologic Cycle & Aquifers
14	Mon.	11/22	17	The Hydrologic Cycle & Aquifers
	Wed.	11/24	17	The Hydrologic Cycle & Aquifers
	Fri.	11/26		No class

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WK	DAY	DATE	CHAPTER	LECTURE TOPIC
15	Mon.	11/29	18	Stream Transport
	Wed.	12/1	18	Stream Transport
	Fri.	12/3	1-18	Final Review
16	Mon.	12/6		Student Study Day – No Class
	Wed.	12/8		Finals – No Class
	Thr.	12/9	1 – 18	FINAL EXAM (1:30 p.m.–4:00 p.m.)