GEO 302E - Earth, Wind & Fire (Spring 2011)

Location: GEO 2.324					
Time: MWF	Time: MWF 11:00-12:00				
Professor:	Joel Johnson				
Office:	EPS 3.136 (Shoch building)				
Office hours:	Monday and Wednesday 1:00-2:00, or by appointment. Also, feel free				
	to come by my office other times and see if I am available.				
E-mail:	joelj@jsg.utexas.edu				
Phone:	512-232-5288				

Optional Textbook

Exploring Geology, Custom Edition for University of Texas. by Pipkin et al., 4th edition (2006) or 5th edition (2008). ISBN:9780495205937

BlackBoard Use

PowerPoint lectures and lab handouts will be available on BlackBoard. The class will be listed as a "Virtual Class" (so that all the sections have access to the same material). It is expected that you have a computer with internet access or that you have access to these facilities. You will be responsible for printing your own lab handouts and other documents as needed.

Overview:

This course is an introduction to key topics in Earth sciences for non-science majors. I think of it as geosciences literacy—what any well-educated person should understand about the functioning of the Earth and human environments.

Course Credit:

Best two of three Lecture Exams (67%) Lab (33%)

Three lecture exams occur during the class period. The lowest exam score is dropped for grade calculation. There are no make-up exams. There is no curving of grades and your grade is the numerical average of 2 lecture exams and the total lab score: A (100-90), B (89-80), C (79-70), D (69-60), F (< 60).

You must bring your UT ID cards to all exams. All necessary materials except pencils and erasers will be provided.

Exams:

Exam 1: February 18 Exam 2: March 23 Exam 3: May 6

The University Honor Code: "The core values of The University of Texas at Austin are learning, discovery, freedom, leadership, individual opportunity, and responsibility. Each member of the University is expected to uphold these values through integrity, honesty, trust, fairness, and respect toward peers and community."

Students are expected to read and to strictly adhere to the University's written policies on academic dishonesty. Cheating or plagiarism will result in a zero for the semester.

A note to students with disabilities: students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259.

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Date	Lecture Topic	Reading	Lab Topic
1/19/11 1/21/11	Introduction The Earth System		No lab this week
1/24/11 1/26/11 1/28/11	Geosphere-History of Plate Tectonics How Plate Tectonics Work #1 How Plate Tectonics Work #2	Chapter 3	Plate Tectonics
1/31/11 2/2/11 2/4/11	Past & Future Earth Views Plate Tectonics & Landscape Earthquakes	Chapter 4	Earthquakes & Volcanoes
2/7/11	Volcanoes Earth Surface Processes-Weathering &	Chapter 5	Rocks & Minerals
2/9/11 2/11/11	Soil Mass Wasting & Subsidence	Chapter 6 Chapter 7	
2/14/11 2/16/11 2/18/11	Terrestrial Environments on Earth Review Exam 1	Chapter 12	Geologic Maps 1
2/21/11 2/23/11 2/25/11	The Record in Rocks Geologic Time-Relative Dating Absolute Dating	Chapter 2 Chapter 17	Geologic Time
2/28/11 3/2/11 3/4/11	Hydrosphere-Hydrologic Cycle How the Oceans Work Coastal Flooding	Chapter 10	Ground Water & Aquifers
3/7/11 3/9/11 3/11/11	Rivers & Flooding Groundwater Water Resources & Pollution	Chapter 9 Chapter 8	Lab Exam 1
3/14/11 3/16/11 3/18/11	Spring Break Week		
3/21/11	Review		Geologic Maps 2

3/23/11 3/25/11	Exam 2 Atmosphere-Structure & Composition		
3/28/11 3/30/11 4/1/11	Controls on Climate #1 Controls on Climate #2 Climate Change Through Time	Chapter 11	Global Climate Change
4/4/11 4/6/11 4/8/11	Air Pollution & Climate Change Biosphere-History of Evolution How Evolution Works	Chapter 18	Texas Memorial Museum
4/11/11 4/13/11 4/15/11	Earliest Times & Life on Earth Life on Earth Through Time Extinction Events	Chapter 19	Geologic Tour of Campus
4/18/11 4/20/11 4/22/11	Hominoid Evolution Resources-Fossil Fuels Minerals	Chapter 14 Chapter 13	Waller Creek
4/25/11 4/27/11 4/29/11	Alternative Energy & Resources Human Population Human Impact on Earth	Chapters 1 & 15	Touring the Solar System
5/2/11 5/4/11 5/6/11	Other Places in Our Solar System Review Exam 3	Chapter 19 (at text end)	Lab Exam 2