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GEO-101-004
Tuesday/Thursday
11:00-12:15
205 Smith Hall

THE DYNAMIC EARTH

Text: Marshak; Essentials of Geology, 2nd Edition

Lab: Syllabus provided by teaching assistant; meeting time established by your class schedule

Lab Manual: Laboratory Manual in Physical Geology AGI/NAGT

Required: purchase of CPS remote; use of eLearning

Prerequisites: None

Description: Study of the Earth including materials, internal and external processes, deformational events, plate tectonics and geologic hazards.

Objectives: At the conclusion of the course, students will understand plate tectonics, know the 3 major rock types and the tectonic environment in which they are located, understand what causes volcanoes, understand erosion and the transport of sediment, understand how and when the Earth formed, understand seismic waves and the characteristics of earthquakes, and will learn aspects of Alabama Geology.

Tentative Syllabus (subject to revision)

<u>Date</u>	<u>Topic</u>	<u>Reading</u>
Jan. 10	Introduction; Origin of the Earth; No Labs	Ch. 1
Jan. 15	Quiz due by 11 am for Ch. 2 (eLearning)	
Jan. 15,17	Plate Tectonics	Ch. 2
Jan. 22	Quiz due by 11 am for supplemental material (eLearning)	
Jan. 22	Plate Tectonics	Ch. 2, supplemental
Jan. 24	Quiz due by 11 am for Chapters 3, 4	
Jan. 24, 29, 31	Minerals and Intrusive Igneous rocks	Ch. 3, 4
Feb. 5	REVIEW	
Feb. 7	FIRST TEST	Ch. 1, 2, supp, 3, 4
Feb. 12	Quiz due by 11 am for Chapter 7	
Feb. 12, 14	Volcanoes and Volcanic Hazards	Ch. 7
Feb. 19	Quiz due by 11 am for Chapter 5	
Feb. 19, 21	Weathering; Sedimentary Rocks	Ch. 5
Feb. 26	Quiz due by 11 am for Chapter 6	
Feb. 26, 28	Sedimentary Rocks; Metamorphic Rocks	Ch.5, 6
Mar. 4	Quiz due by 11 am for Chapter 9	
Mar. 4, 6	Folds and Faults	Ch. 9
Mar. 11	REVIEW	
Mar. 13	SECOND TEST	Ch. 5, 6, 7, 9
Mar. 18, 20	NO CLASS; Spring Holidays	
Mar. 25	Quiz due by 11 am for Chapter 8	
Mar. 25, 27	Earthquakes; Interior of Earth (Interlude C)	Ch. 8; p. 240-247
April 1	Quiz due by 11 am for Chapter 10, 14	
April 1, 3	Earth's Age & Running Water	Ch. 10, 14
April 8	Quiz due by 11 am for Chapter 16, 12	
April 8, 10, 15	Groundwater and Energy Reserves	Ch. 16, 12
April 17	Alabama Geology (AL)	
April 22	REVIEW	
April 24	THIRD TEST	8,10,12,14,16,AL
April 29	Quiz due by 11 am for Ch. 15	
April 29; May 1	Shorelines	Ch. 15
May 9 (FRIDAY)	8:00 to 10:30 am COMPREHENSIVE FINAL EXAM	

PLEASE: *Turn off cell phones before class starts.* Do not answer cell phones or text message while attending class. If these devices are used during an exam, you will be assigned a grade of zero and the issue will be turned over to the Academic Dean for follow-up.

GRADES: Tests (3)	40%	(lowest test score dropped; 20% each)
Lab	25%	
Final exam	25%	
Participation	10%	(4% from CPS, 4% from eLearning Quizzes, 2% from Classroom Discussion)

Grades will be assigned as follows: 100-97 A+; 96-93 A; 92-90 A-; 89-87 B+; 86-83 B; 82-80 B-; 79-77 C+; 76-73 C; 72-70 C-; 69-67 D+; 66-63 D; 62-60 D-; <60 F

ATTENDANCE POLICY: It is difficult to pass this class if you have not attended to class. Some material presented in class is not in your textbooks, thus, attendance is strongly urged. If you miss a class, you are advised to acquire the notes from one of your peers. Tardiness to this class is also frowned upon as it disrupts the learning of your peers -- be respectful and on time.

LABORATORY: You must attend lab. If you fail the lab, it is extremely difficult to pass the class because the *lab grade is 25%* of the final grade you will receive in this class (see above). If you have a lab scheduled over a university holiday, you must attend another lab in the same week to make-up the lab.

TESTING: Do not be late to tests. If you arrive to a test after someone has already finished, you will not be allowed in the room to take the test and you will not be allowed to make up the test. Make-up tests will be given only on presentation of an approved medical excuse (in writing from your doctor including his/her office number so that departmental personnel can check validity), or by pre-excused permission of the instructor. No exceptions! All doctor's excuses will be checked. If an excuse is found to be falsified, it will immediately be handed over to the Academic Dean for follow-up. Contact me immediately if you miss an exam. With an approved excuse, you only have until the next class to make up the exam or until the exams are returned in class. The format for the make-up test will be either an essay or oral test. Tests will cover mostly the material discussed in class and material in your textbook. There are three regularly scheduled tests and one final exam. **I will drop the lowest test score.** Note: you will be allowed to make up only one exam per semester (except in the case of a medical emergency). Cell phones must be turned off before the exam. If you are caught text messaging, your phone and exam will be confiscated immediately and give to the Academic Dean for further review. Please note time and date of final exam (see above). According to University regulations, no exam will be given at an earlier date.

QUIZZES: Each week you are assigned chapters to read. In the syllabus, dates are marked where you must complete 11 online quizzes via eLearning. You must finish these quizzes before class starts on the day the quiz is due. If you do not complete these quizzes you will be penalized in your class participation. You may continue to take the online quiz until you have answered all the questions correctly or class starts. The highest score will be used as your grade. You may use your textbook to complete the quizzes. After class has begun on the specified day, no more quizzes will be accepted. This is a firm deadline. If you know you are going somewhere, you must complete the quiz before you leave.

eLEARNING: This class *requires* the use of eLearning for a variety of functions. Daily powerpoints will be posted on this website. You will use eLearning to complete the online quizzes (see syllabus and calendar in eLearning for dates the quizzes are due) and we will communicate via the use of the mail and announcement functions. eLearning can be accessed at elearning.ua.edu or through your mybama account. The same username and password that you use for mybama is also used for eLearning.

CPS: This class *requires* a CPS remote (\$21 new/\$16 used) which is available for purchase from the campus store which can be sold back to the store at the end of the semester. You have one week from today to purchase them--no exceptions. You must bring this remote to class everyday. It is used to respond to questions in class and helps me to know who comes to class and participates. It is a violation of the academic honor code to bring someone else's CPS remote to class. I can easily figure out if this happens by calling class attendance. If I find that this has occurred or I see a student with two clickers the responsible parties will be immediately referred to the Academic Dean for follow-up. Students also need to register for the class via the einstruction web site (<http://www.einstruction.com>). When you go to register you will have to pay an enrollment fee (\$15). The bookstore does sell enrollment codes for \$20 but it is cheaper to go to the website and pay it via your credit/debit card. The class key is F36180J649. Go to Login and click Student. Instructions for enrollment are on our class webpage in eLearning listed on the homepage as student enrollment instructions.

PARTICIPATION GRADE: Attendance is not taken in this class but your participation will be evaluated based on your frequency and correctness of your CPS responses, your in-class discussion, and completing the quizzes as required. In determining the final in-class participation grade, the lowest three CPS class scores will be ignored. Not only do you have to bring your CPS remote to every class but you must answer the CPS questions. Simply turning on your CPS will earn you a grade of zero for participation on that day. You must answer the questions and get at least 75% correct for that day to obtain the full participation grade for that day.

LAPTOP POLICY: You may use your laptop to take notes in this class. Please turn the sound off so that other students are not bothered. There is not a wireless internet connection in this building. If I find that you are playing games or preparing for another class on your computer instead of taking notes, you will be banned from bringing your laptop to class.

ACCOMMODATIONS: Students with disabilities who need accommodations made should present an accommodation letter to me as soon as possible. These letters can be obtained from the Office of Disability Services.

OFFICE HOURS: Tuesday and Thursday from 9:30-10:30 in Bevill 225 or by appointment. Please come see me if you have trouble with any of the material. If you don't do as well as you expected on a test, please schedule an appointment to figure out the cause. Email is a great way to communicate: dmr@geo.ua.edu You can also email me concerning the class in eLearning under the Mail link on the left side of the screen.

ACADEMIC HONOR CODE: All students are expected to be honorable, observe standards of conduct appropriate to a community of scholars and adhere to the Academic Honor Pledge. Cheating, knowingly plagiarizing material (e.g. from books or the web), or helping another student commit these acts will not be tolerated. Text messaging in the classroom, completing quizzes for other students, or using a CPS unit other than your own is considered cheating.