

# Geology 102L Hybrid - Geology of Planet Earth Lab Syllabus – Spring 2012

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## **Course Information**

Location: EH 2028  
Class Day/Time: Tuesday 11:00 – 1:45pm; Class No. 15314  
Required Lab Manual: Laboratory Manual in Physical Geology, 9<sup>th</sup> edition, by Richard M. Busch

**Last day to drop a class is Friday, February 17, 2012.**

## **Course Objective**

This course compliments the Geology 101 lecture course; you should be able to apply the concepts learned in the lecture class to the lab exercises. Topics covered within this lab will include: the geologic timescale, rock and mineral identification, plate tectonics, topographic maps, natural resources, and natural hazards.

## **Course Requirements**

This is a hybrid lab class; this means that some labs, as well as supplemental information for the class will be online (Moodle). You must have access to a computer and the internet, and you must check Moodle and your email regularly for updates and communications regarding this class. **Attendance is mandatory for the in class labs; you will not be able to make up a lab, no exceptions.**

## **Grading**

Your grade in this class will be based off of the quality of your completed lab assignments, quizzes, attendance, participation, and final. See grading scale below.

**Labs (25 points each - total of 300 points):** You are responsible for reading through each lab prior to class. There will be one or two labs per class (see lab schedule below), if two lab activities are assigned on one day, they will be graded as one. The in class labs will be due at the end of each class. If you miss labs you are likely to fail this course. All labs will be completed in groups of 2 to 4 students. One lab will be turned in for each group. If you disagree with an answer(s) the group wishes to submit, you may include your own answer(s) on the lab and be graded on it separately from your group. A few of the labs are on Moodle; these labs will open on Monday the week they are scheduled, and close the following Friday at 5pm. I will not re-open any Moodle labs you miss, you will be responsible for completing the Moodle labs before they are due. You may work with your lab partners on Moodle labs; however, each person must submit their own lab on Moodle. **There are no make-ups for missed labs** (in class or on Moodle). I will drop your lowest lab at the end of the semester.

**Quizzes (25 points each - total of 75 points):** All quizzes will be on Moodle, they will be available at the on Wednesday the week they are scheduled (see Lab Schedule below), and will close the following Friday at 5pm. The quizzes will be cumulative (as indicated on the lab schedule below) and will consist of 10 to 20 questions. You will be allotted 30-45 minutes for each quiz, and you will have 2 attempts. These are open book/note quizzes. Quizzes operate on the honor system, please complete your quizzes on your own, do not work on these together. **There are no make-ups on quizzes.**

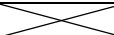
**Final (75 points):** The final will be a cumulative test on topics covered in this lab, and will be on the last day of class.

## **Grading Scale**

A (>92%)	B+ (88-89.9%)	C+ (78-79.9%)	D+ (68-69.9%)	F (<59%)
A- (90-91.9%)	B (82-87.9%)	C (72-77.9%)	D (62-67.9%)	
	B- (80-81.9%)	C- (70-71.9%)	D- (60-61.9%)	

Incompletes "I" will not be given in this class.

## Lab Schedule

Date	Lab #	Topic	
January 24		Syllabus Review and Class Intro	In class
January 31	1	Lab 1 - Observing & Measuring Earth Materials & Processes	In class
February 7	2	Lab 2 - Plate Tectonics & the Origin of Magma	In class
February 14	3	Lab 3 - Mineral Properties, Uses, and ID	In class
February 21	4 & 6	Lab 4 - Rock-Forming Processes & the Rock Cycle Lab 6 - Sedimentary Rocks, Processes, & Environments (Rock ID) <b>Quiz 1 - Labs 1 thru 4 &amp; 6 (on Moodle, Due Feb 24 @ 5pm)</b>	In class
February 28	5 & 7	Lab 5 - Igneous Rocks & Volcanic Hazards (Rock ID) Lab 7 - Metamorphic Rocks, Processes and Resources (Rock ID)	In class
March 6	8	Lab 8 - Dating of Rocks, Fossils, & Geologic Events	In class
March 13	9	Lab 9 - Topographic Maps, Aerial Photographs, & Satellite Images	In class
March 20	10	Lab 10 - Geological Structures, Maps, & Block Diagrams	In class
March 27	11 & 12	Lab 11 - Stream Processes Lab 12 - Groundwater <b>Quiz 2 - Labs 5 &amp; 7 thru 10 (on Moodle, Due March 30 @ 5pm)</b>	Moodle
April 3		<b>NO CLASS – SPRING BREAK</b>	
April 10	13	Lab 13 – Glacial Processes, Landforms, and Indicators of Change	Moodle
April 17	14	Lab 14 - Dryland Landforms – Death Valley Lab	Moodle
April 24	15	Lab 15 - Coastal Processes, Landforms, Hazards, & Risks	Moodle
May 1	16	Lab 16 - Earthquakes/Seismology Review for Final Exam <b>Quiz 3 - Labs 13 thru 16 (on Moodle, Due May 4 @ 5pm)</b>	In class
May 8		<b>FINAL EXAM – Lab final is the week prior to University finals</b>	In class

### Additional Course Information

**Academic Dishonesty:** Cheating will not be tolerated. This includes, but is not limited to cheating, fabrication, facilitating academic dishonesty, plagiarism, and altering your answers after I have graded your work (Please refer to Appendix E of the University Catalog). **If I find any evidence of academic dishonesty, it will result in a failing grade for the class and notification to the Dean of Students, which may result in disciplinary action.**

**Attendance and Participation:** It is essential that you attend all labs and that you arrive on time. **Lab and quiz make-ups are not allowed.** At the end of the semester, if you fall between grades, I will take your attendance and participation into account.

**Class Conduct:** The use of cell phones and other electronic devices (iPods, MP3 players, etc...) are not permitted in class. Please do not bring food into the class, you may bring drinks into class, but please be careful. Be respectful of your classmates; refrain from talking while I am addressing the class. If you are disruptive during class, I will ask you to leave, at which point you will turn in what you have completed of your lab whether you are finished or not. This lab will be graded as is and docked a full grade.

**Note: This syllabus is subject to change**