

# Geology 102L Hybrid - Geology of Planet Earth Lab Syllabus – Spring 2013

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## Course Information

Location: EH 2028

Class Day/Time: Thursday, 5-7:45pm; Class No. 18468

Required Lab Manual: *Laboratory Manual for Introductory Geology*, 2<sup>th</sup> edition, by Allan Ludman and Stephen Marshak

**Last day to drop class through SOLAR: February 1. Last day to drop with hardcopy form and permission of instructor and department chair: February, 8 at 4pm. NO DROPS ARE PERMITTED AFTER THIS DATE.**

## 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 (65%), quizzes (17%), final exam (17%), attendance, and participation. **There is a total of 450 (425 after the lowest lab is dropped) possible points in this course.** See grading scale below.

**Labs (25 points each - total of 300 points):** You are responsible for reading through each lab that will be made available before each class via Moodle, **AND the corresponding chapter in your lab manual**. Also, you **must print and bring a copy of the lab to class** every week. I will not be supplying them. 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. 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 **NO MORE THAN 4** students. One lab will be turned in for each group. A few of the labs are on Moodle and I give a full week for you to complete the lab. You may work with your lab partners on Moodle labs; however, each person must submit their own lab on Moodle. Moodle labs will be available immediately after class on the day they are scheduled to be activated in Moodle. **There are no make-ups for missed labs** (in class or on Moodle). However, your lowest lab will be dropped and your total lab points will be calculated out of 275 points.

\*\*Nothing other than a blue or black ink pens or pencil will be used on the group labs that are turned in at the end of class. You may use other colors and writing utensils on the copies that you keep for yourself.\*\*

**Quizzes (25 points each - total of 75 points):** All quizzes will be on Moodle, and they will be available immediately following class and will close at 11:55pm 48 hours later. The quizzes will be cumulative (as indicated on the lab schedule below) and will consist of 10 to 20 questions. You will be allotted 90 minutes for each quiz, and you will have 2 attempts. These are open book/note quizzes. **There are no make-ups on quizzes.**

**Final Exam (75 points):** The final will be a cumulative test (labs 1-12) on topics covered in this lab and will be on the last day of class. Bring calculators as no other device will be allowed. You'll have the full class period to finish the exam and you must bring a blue scantron, form number 19641. The final is **not a group assignment.**

**Extra Credit:** I will give out extra credit as I see fit. This could be on labs, quizzes, and the final, but it's not definite.

**How it all breaks down:** To calculate your grade, add your total earned lab points (drop your lowest out of the 12 labs), total earned quiz points, and final exam points together and divide by the total possible points (425 after dropping a lab). That percentage is your overall final grade in the class. An example might look like this (example calculated ignoring any earned extra credit):

200 (out of 275) + 70 (out of 75) + 68 (out of 75) = 338.  $338/425 = 0.7952$ , or 80% after rounding up. 80% = B-

#### 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.**

**Policy for electronics in class:** Absolutely no laptops, iPads, iPhones, iAnything, tablets, laptops, etc. will be allowed in class. Phones are to be shut off or put on vibrate and put away. I do not want to see them on the desks. If your phone goes off, please turn it off or to vibrate, and if it becomes a reoccurring issue I will DOCK POINTS! Notes can be taken on paper, though there will not be much. This is a lab class and not a lecture class, so there really is no need for a computer in class. No device that can communicate with the outside world is permissible in order to negate the opportunities for cheating. However, there might be an acceptance to this rule as the semester carries on.

#### Lab Schedule

Date	Lab #	Topic	
January 24		Syllabus Review and Lab 0	
January 31	1	Lab 1 – Setting the Stage for Learning About the Earth	In class
February 7	2	Lab 2 – The Way the Earth Works: Examining Plate Tectonics	In class

February 14	3	Lab 3 – Minerals (& Mineral ID)	In class
February 21	4 & 5	Lab 4 – Minerals, Rocks, and the Rock Cycle Lab 5 – Using Igneous Rocks to Interpret Earth History (Rock ID) <i>Quiz 1 - Labs 1, 2, 3, 4, &amp; 5 (on Moodle, Due Feb 20)</i>	In class lab and quiz on <b>Moodle</b>
February 28	6 & 7	Lab 6 – Using Sedimentary Rocks to Interpret Earth History (Rock ID) Lab 7 – Interpreting Metamorphic Rocks (Rock ID)	In class
March 7	17	Lab 17 – Interpreting Geologic History: What Happened and When Did it Happen?	In class
March 14	9	Lab 9 – Working with Topographic Maps	In class
March 21	10 & 12	Lab 10 – Landscapes Formed by Steams Lab 12 - Groundwater as A Landscape Former and Resource <i>Quiz 2 - Labs 6, 7, 17, 9, 10, &amp; 12 (on Moodle, Due March 20)</i>	<b>Moodle</b>
March 28	13 & 14	Lab 13 – Processes and Landforms in Arid Environments Lab 14 – Shoreline Landscapes	<b>Moodle</b>
April 4		<b>NO CLASS – CESAR CHAVEZ HOLIDAY WEEK</b>	
April 11		<b>NO CLASS – SPRING BREAK WOOHOO!</b>	
April 18	11	Lab 11 – Glacial Landscapes	<b>Moodle</b>
April 25	15	Lab 15 – Interpreting Geologic Structures	
May 2	16	Lab 16 – Earthquakes and seismology Review for Final Exam <i>Quiz 3 – Labs 11, 13, 14, 15, 16 (on Moodle, Due May 1)</i>	In class lab and quiz on <b>Moodle</b>
May 9		<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***