

Earth Processes Lab Syllabus – Physical Geology 101L/103L

Head TA: Rebecca Garcia

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Office Hours, MSEC 184: M 11-12, Tu 10-11, F 11-12 or by appt.

TA Schedules

Monday – Christine Ruhl; cruhl@nmt.edu; Office Hours, MSEC 194: M 1-2, Th 3-4

Tuesday – Shoba Maraj; smaraj@nmt.edu; Office Hours, MSEC 184: M 10-11, Tu 11-12

Wednesday – Heather Casey; hcasey@nmt.edu; Office Hours, MSEC 190: Tu 9:30-10:30, W 1-2

Thursday – Laura Jones; lkzjones@gmail.com; Office Hours, MSEC 186: Tu 2-4

Friday – Rebecca Garcia (see above)

Schedule:

Week #	Dates	Topic	Reading* (Spiral book)	Reading* (NMT book)	Quiz
1	8/24 - 8/28	No lab			
2	8/31 – 9/4	San Lorenzo field trip			
3	9/7 - 9/11	Labor Day – take home lab #1 ** (article summary)			
4	9/14 - 9/18	Minerals ID lab	Lab 3	Lab 2	#1
5	9/21 - 9/25	Igneous rocks	Labs 4 & 5	Labs 3 & 5	#2
6	9/28 - 10/2	Sedimentary rocks	Lab 6	Lab 4	#3
7	10/5 - 10/9	Metamorphic rocks	Lab 7	Lab 6	#4
8	10/12 - 10/16	MIDTERM EXAM			
9	10/19 - 10/23	49er's – take home lab #2 ** (examine continental margins in GeoMapApp)			
10	10/26 - 10/30	Topographic maps / Box Canyon field trip	Lab 9	Lab 8	#5
11	11/2 - 11/6	Geologic events, structures, and maps	Lab 10	Lab 10	#6
12	11/9 - 11/13	Mineral Museum lab			
13	11/16 - 11/20	Earthquakes and plate tectonics	Lab 2 & 16	Lab 1 & 16	#7
14	11/23 - 11/27	Thanksgiving – take home lab #3 ** (rivers and deltas in GeoMapApp)			
15	11/30 - 12/4	IRIS/PASSCAL field trip			
16	12/7 - 12/11	FINAL EXAM			

* You are required to read the noted labs in your lab manual **prior** to coming to lab. The reading assignments refer to the “Laboratory Manual in Physical Geology” book (spiral book) and the NMT Lab Manual 2008 (NMT book).

** To be completed at home and turned in the following week. Your TA will give additional instructions to you. The E&ES computer lab (MSEC 239) and the TCC are available if you need to access a computer.

Lab Manual: The Laboratory Manual in Physical Geology 8th edition or the New Mexico Tech EARTH 101 Lab Manual, Fall 2008 printing, is required for 101/103L. Other exercises may be provided in place of or in addition to the exercises in your lab manual.

Attendance: Attendance is MANDATORY for all labs and field trips as indicated above. There will be NO make-up labs or field trips.

Assignments: Lab exercises, take-home labs, and field trips are due at the beginning of the next lab period, and you are required to work on your lab during the designated lab time. You may turn in your work the day of the lab and leave early if you finish quickly. NO late assignments will be accepted.

As is the case in most geology labs, you are highly encouraged to work together with other students as long as you do your own work.

Field Trips: Three field trips have been scheduled for this course. These field trips may change due to weather, scheduling conflicts, and staff availability. Suggested field gear includes: hat, sun block, water, sturdy footwear (no sandals!), sunglasses, rain gear (rain will not necessarily cancel any given field trip), a notebook, and a writing utensil.

Quizzes: There will be seven 10-pt quizzes given at the beginning of the designated class period. The quizzes are on the material that you were assigned to read for the lab exercises that day. This is to "encourage" you to read the assigned sections, so that you will have an idea of what the lab will cover.

Exams: There will be a midterm and a final exam. The midterm will cover material up to the exam, and the final will cover ALL material presented in the course with a focus on the second half of the semester. Review sessions will be scheduled with your individual TA prior to each exam.

Grading: Grades will be calculated using the cumulative earned points of quizzes, labs, field trips, take-home labs, and the midterm and final exams.

7 quizzes (10 pts each)	70 pts
7 labs (20 pts each)	140 pts
3 take-home labs (20 pts each)	60 pts
3 graded field trips (10 pts each)	30 pts
<u>2 exams (100 pts each)</u>	<u>200 pts</u>
Total Possible	500 pts