

9-2014

# GEO 102N.00: Introduction to Physical Geology Lab

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# Introduction to Physical Geology Lab

## GEO102N, Section X, 1 credit

### Spring, 2014

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#### Course Info:

**Instructor (Teaching Assistant):** your name here

**Location:** CHCB111

**Meeting time:** at

**TA Office:** room

**TA email:** email

**TA office hours:** times

**Course Description:** This class is an introduction to lab work in geology. There will be a lab assignment or exam every week. Labs will consist of a brief introductory discussion with the remaining lab time devoted to hands-on work with rocks, earth materials, maps, and models of geosciences processes. The objective of this course is to familiarize you with basic geologic concepts and the methods used to study them. Emphasis will be on observation and description, the building of a "geologic toolbox", and application of these skills in interpreting geologic processes.

**Required materials:** GEO102 Laboratory Manual – coursepack. Available in UM bookstore

**Pre-lab exercises** are assigned most weeks and are to be completed before your lab. These are designed to prepare you for the lab topic so that you can complete the lab efficiently during your scheduled class period. In most cases, these will be done on Moodle.

Moodle is the program for online components of courses. You can log into Moodle by going to either OneStop and then UMOonline, or directly to UMOonline from the UM homepage. You will see your geology lab course listed when you enter Moodle. On the UMOonline homepage, there are resources you can use to familiarize yourself with Moodle (UM Online Orientation and UMOonline 101). If you have technical problems with Moodle call the UMOonline Techs at 243-4999 (during regular working hours only).

**Labs** are designed so that you should be able to generally complete them and turn them in at the end of class. This is much more likely to occur **if you have read through the introductory material and lab activities in advance** of your scheduled lab. You must be in attendance at lab in order to turn it in for credit. In the case that you need additional time to complete the lab, labs can be turned in at your TAs office by 5 PM on the day following your lab period.

You are encouraged to work together with a group of students in lab, but must hand in your own completed lab, on the lab manual pages, written in your own words. Copying another student's lab response is considered a form of academic dishonesty, and will not be tolerated!

**Communication:** Useful information will be posted here on Moodle, such as announcements, the syllabus, and handouts distributed in lab. You can also view your grades. Please note that your TA will use your official UM email address to communicate with you. It is your responsibility to make sure you receive these messages sent to your UM email address in a timely manner.

**Attendance:** Because of high demand, **you must attend at least one of the first two class meetings (the first and second weeks of the semester) to remain on the roster for this course!**

*Official UM policy: "Students who are registered for a course but do not attend the first two class meetings may be required by the instructor to drop the course. This rule allows for early identification of class vacancies to permit other students to add classes. Students not allowed to remain must complete a drop form or drop the course on the internet (<http://cyberbear.umt.edu>) to avoid receiving a failing grade. Students who know they will be absent should contact the instructor in advance."*

### **Missing lab during the term:**

#### **The number one reason for failing this class is missing labs!**

*Official UM policy: "Students are expected to attend all class meetings and complete all assignments for the course. Instructors may excuse brief and occasional absences for reasons of illness, injury, family emergency, religious observance or participation in a University sponsored activity. (University sponsored activities include for example, field trips, ASUM service, music or drama performances, and intercollegiate athletics.) Instructors shall excuse absences for reasons of military service or mandatory public service."*

If you must miss a lab for a reason acceptable to your instructor, **you must make arrangements for making it up** with your TA **prior to your scheduled lab time if possible**. If you are sick the day of the lab, please e-mail your TA **promptly** to let him/her know and to arrange a time to make up the lab or attend another lab session the same week (with advance arrangement and if classroom space allows —please **do not** just show up at another lab session). Labs should be turned in to your assigned instructor regardless of the lab period attended.

Lab make-up sessions will be offered each week on Sunday evening at 6 PM. In general, a missed lab must be made up **the same week**. **Please keep in mind that you need to receive permission from your TA to attend and receive credit for a make-up lab.**

**Exams:** There will be a midterm and a final that will cover material presented in the lab. The final will be during finals week. Please make note of the time assigned for this final **now** (see course schedule on last page). Review sessions will be arranged by your TA before each exam. **Make-up exams are allowed only at the discretion of the lab instructor.**

<b>Assessment:</b>	Labs	65%
	Pre-labs	10%
	Midterm Exam	12.5%
	Final Exam	<u>12.5%</u>
	Total	100%

Extra credit worth the equivalent of one lab will be offered.

Final course grades will be assigned as follows:

A 93-100%	B 83-86%	C 73-76%	D 63-66%
A- 90-92%	B- 80-82%	C- 70-72%	D- 60-62%
B+ 87-89%	C+ 77-79%	D+ 67-69%	F 59 or below

Please note: You must take the class with traditional grading to apply it towards the Gen Ed lab science requirement. A minimum grade of C- must be earned for the course to be applied for the Gen Ed requirement.

**Honor Code:** *All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at: [http://life.umt.edu/vpsa/student\\_conduct.php](http://life.umt.edu/vpsa/student_conduct.php).*

**Students with Disabilities:** *Students with disabilities will receive reasonable modifications in this course. Your responsibilities are to request modifications with sufficient advance notice, and to be prepared to provide verification of disability and its impact from Disability Services. Please speak to your TA after class or during office hours to discuss the details. For more information, visit the Disability Services for Students website at <http://life.umt.edu/dss>.*

## Lab Schedule

<b>Dates</b>	<b>Lab</b>	<b>Topic</b>
Aug. 25 – 29	One	Intro to Lab
Sept. 2 – 5 <sup>1</sup>	Two	Plate Boundaries
Sept. 8 – 12	Three	Global Tectonics
Sept. 15 – 19	Four	Minerals and Rocks
Sept. 22 – 26	Five	Volcanic Rocks and Hazards
Sept. 29 – Oct. 3	Six	Sedimentary and Metamorphic Rocks
Oct. 6 – 10	Lab Midterm Exams	
Oct. 13 – 17	Seven	Geologic Time
Oct. 20 – 24	Eight	Earthquakes
Oct. 27 – 31	Nine	Geologic Structures
Nov. 3 – 7 <sup>2</sup>	Ten	On-campus Field Trip
Nov. 10 – 14 <sup>3</sup>	Eleven	Rivers
Nov. 17 – 21	Twelve	Groundwater
Nov. 24 – 28	<i>Thanksgiving Holiday – No labs this week</i>	
Dec. 1 – 5	Thirteen	Glaciers and Climate
Dec. 8 – 12	Lab Final Exams	

<sup>1</sup> Note that labs will not be held on Monday, Sept. 1, as it is Labor Day .

<sup>2</sup> Note that labs will not be held on Tuesday, November 4, as it is Election Day.

<sup>3</sup> Note that labs will not be held on Tuesday, November 11, as it is Veteran's Day.

**If you have lab on these days, you must attend the makeup lab on the following Sunday or attend another lab section during that week**