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

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#### Recommended Citation

Harper, Kathleen M., "GEO 102N.00: Introduction to Physical Geology Laboratory" (2015). *Syllabi*. 2861.  
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# Introduction to Physical Geology Lab

## GEO102N, Section X, 1 credit

### Spring, 2015

**Instructor/Teaching Assistant:**

**Location/meeting time:** CHCB111/

**TA Office:**

**TA email:**

**TA Office Hours:**

**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 geoscience 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 to interpreting geologic processes.

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

**Pre-labs** 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. Prelabs 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 log into Moodle using your Ned ID. 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 most students are able to complete and turn in the assigned exercises 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. 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 (Monday for Friday labs). Note that you must be in attendance at a lab in order to turn it in for credit.

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 check these messages regularly to ensure that you receive messages pertaining to this and other UM courses.**

**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 prior to your scheduled lab time for making it up** with your TA. 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 attend the makeup lab time on Sunday night 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>.*

# GEO102, Physical Geology Lab

## Spring, 2015

<b>Dates</b>	<b>Lab</b>	<b>Topic</b>
Jan. 26 – 30	One	Intro to Lab
Feb. 2-6	Two	Plate Boundaries
Feb. 9-13	Three	Global Tectonics
Feb. 16-20 <sup>1</sup>	Four	Minerals and Igneous Rocks
Feb. 23-27	Five	Volcanic Rock and Hazards
Mar. 2-6	Six	Sedimentary and Metamorphic Rocks
<b>Mar. 9-13</b>	<b>Lab Midterm Exams</b>	
Mar. 16-20	Seven	Geologic Time
Mar. 23-27	Eight	Earthquakes
<i>Mar. 30- Apr. 3</i>	<i>Spring Break – no labs</i>	
Apr. 6-10	Nine	Geologic Structures
Apr. 13-17	Ten	On-campus Field Trip
Apr. 20-24	Eleven	Rivers
Apr. 27-May 1	Twelve	Groundwater
May 4-8	Thirteen	Glaciers and Climate
May 11-15	<b>Lab Final Exams</b>	

<sup>1</sup> Note that labs will not be held on Monday, Feb. 16, as it is President's Day . If you are signed up for the Monday lab, you must arrange to attend another lab session this week.