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GEO 102N.00: Introduction to Physical Geology Laboratory

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Introduction to Physical Geology Lab

GEO102N, Section X, 1 credit

Fall, 2015

Instructor/Teaching Assistant:

Location/meeting time: CHCB111/

TA Office:

TA email:

TA Office Hours:

Course Description: The objective of this course is to familiarize you with basic geologic concepts and the methods used to study them. Weekly lab activities will include watching short videos, completing written lab exercises in the lab manual, identification of mineral and rock samples, and working with maps and models of geoscience processes. 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.

You can log into Moodle by going to UOnline/moodle from the UM homepage. You will see your geology lab course listed when you log into Moodle using your Net ID. If you have technical problems with Moodle call the UOnline Techs at 243-4999 (Weekdays, working day 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 a 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: Moodle will be used to post information, handouts, and to view a compilation of your grades. Please note that your TA will use only your official UM email address to communicate with you. It is your responsibility to make sure you check this email regularly to ensure that you receive messages pertaining to this and other UM courses.

Missing lab:

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 contact your TA and make arrangements** with your TA **prior to your scheduled lab time** for making it up. If you are sick the day of the lab, please e-mail your TA **promptly** to let him/her know and to arrange to or attend another lab session the same week or to attend the makeup lab time on Sunday night. Except in extraordinary circumstances, makeups must be completed by the week following the missed lab. Completed labs should be turned in to your assigned TA regardless of the lab period attended.

Lab make-up sessions for the previous week's lab are offered on Sunday evening at 6 PM. **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.**

Assessment:	Labs	65%
	Pre-labs	10%
	Midterm Exam	12.5%
	Final Exam	<u>12.5%</u>
	Total	100%
	<i>Extra credit worth the equivalent of one lab will be offered.</i>	

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 and earn a C- or better to apply it towards the Gen Ed lab science 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://www.umt.edu/vpsa/policies/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://www.umt.edu/dss/>*

Physical Geology Lab (GEO102)

Schedule, Fall, 2015

Dates	Lab	Topic
Aug. 31 – Sept. 4	One	Intro to Lab
Sept. 7-11 ¹	Two	Plate Boundaries
Sept. 14-18	Three	Global Tectonics
Sept. 21-25	Four	Minerals and Rocks
Sept. 28 – Oct. 2	Five	Igneous Rocks and Volcanoes
Oct. 5-9	Six	Sedimentary and Metamorphic Rocks
Oct. 12-16	Lab Midterm Exams	
Oct. 19-23	Seven	<u>On-campus Field Trip</u> Geologic Time
Oct. 26-30	Eight	<u>Geologic Time</u> On-campus Field Trip
Nov. 2-6	Nine	Geologic Structures
Nov. 9-13 ²	Ten	Earthquakes
Nov. 16-20	Eleven	Rivers
Nov. 23-27	Thanksgiving Week – no labs	
Nov. 30 – Dec. 4	Twelve	Groundwater
Dec. 7-11	Thirteen	Glaciers and Climate
Dec. 14-18	Lab Final Exams (follows final exam schedule!)	

¹ Note that labs will not be held on Monday, Sept. 7, as it is the Labor Day holiday. If you are signed up for the Monday lab, you must arrange to attend another lab session this week.

² Note that labs will not be held on Wednesday, Nov. 11, as it is the Veteran's Day holiday. If you are signed up for a Wednesday lab, you must arrange to attend another lab session this week.