

Introduction to Physical Geology Lab

GEO102-50, Fall, 2016, 1 credit

Dr. Kathleen Harper

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: Introductory Physical Geology Laboratory Kit and Manual, Coast Learning Systems, ISBN9781465270009. This kit contains lab materials, including rock and mineral samples, a hand lens, a lab manual, and an access code for the website that goes along with the manual. The UM Bookstore has this kit for purchase in the store (or they will mail it to you).

Moodle is the program for online components of courses. Log in to Moodle from UOnline or from the UM homepage. You will see your geology lab course. On the UOnline homepage, there are resources you can use to familiarize yourself with Moodle (UM Online Orientation and UOnline 101). If you have technical problems with Moodle call the UOnline Techs at 243-4999 (M-F 9-5 only).

Communication: Useful information will be posted here on Moodle, such as announcements, the syllabus, and assignments. You can also view your grades. Announcements and some reminders will also come to you by email. Please note that I 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.**

Assessment:	Syllabus quiz	2.5%
	Labs* (13)	77.5%
	<u>Weekly discussion</u>	<u>20.0%</u>
	Total	100%

Your lowest scoring lab will be dropped from the final calculation.
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://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/>*

GEO102-50, Physical Geology Lab Online, Fall, 2016

Dates	Week	Topic for the week (mostly on CLS Site)
Aug. 29 – Sept. 4	One	Intro to course and to Moodle
Sept. 5-11	Two	CLS site and first lab (handout)
Sept. 12-18	Three	Lesson 2: Plate tectonics
Sept. 19-25	Four	Lesson 5: Minerals
Sept. 26 - Oct 2	Five	Lesson 6: Igneous Rocks and Volcanism
Oct. 3-9	Six	Lesson 7: Sedimentary Rocks
Oct. 10-16	Seven	Lesson 8: Metamorphism and Metamorphic Rocks
Oct. 17-23	Eight	Lesson 9: Geologic Time
Oct. 24-30	Nine	Lesson 3: Rock Deformation and Mountain Building
Oct. 31-Nov. 6	Ten	Lesson 4: Earthquakes
Nov. 7-13	Eleven	Lesson 1: Topographic Maps
Nov. 14-20	Twelve	Lesson 14: Economic Geology and Resources
<i>Nov. 21-27</i>	<i>Thirteen</i>	<i>Thanksgiving Week – no lab!</i>
Nov. 28-Dec. 4	Fourteen	Lesson 11: Streams and Groundwater
Dec.4-11	Fifteen	Lesson 13: Glaciers
Dec. 14-20	Finals Week	No final exam for this class