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Fall 9-2015

### GEO 102N.50: Introduction to Physical Geology Laboratory

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# Introduction to Physical Geology Lab

## GEO102-50, Fall, 2015, 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.

**Moodle** is the program for online components of courses. You can log into Moodle by going to either OneStop and then UOnline, or directly to UOnline from the UM homepage. You will see your geology lab course listed when you log into Moodle using your Ned ID. 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 (during regular working hours only).

**Communication:** Useful information will be posted here on Moodle, such as announcements, the syllabus, and assignments. You can also view your grades. 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.**

|                    |                  |              |
|--------------------|------------------|--------------|
| <b>Assessment:</b> | Syllabus quiz    | 2.5%         |
|                    | <u>Labs (13)</u> | <u>97.5%</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://www.umt.edu/vpsa/policies/student\\_conduct.php](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, 2015

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