

1-2014

GEO 101N.50: Introduction to Physical Geology - Online

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Introduction to Physical Geology **(GEO 101N, Sect. 50, 3 credits) Spring, 2014**

Instructor: Dr. Kathleen Harper
email: kathleen.harper@umontana.edu

Virtual office Hours: Monday and Wednesday 1-2 PM. Please do not hesitate to contact me by email to arrange a different meeting time to have a web conference meeting.

Course Description: This course is an introduction to geosciences; the study of how Earth works. Humans around the world are impacted everyday by interaction with our planet, including geologic hazards and access to natural resources. This course will help you to develop your understanding of the physical processes that have gone into making the Earth what it is today, and an awareness of how Montana fits into the global picture. This knowledge will help you make intelligent decisions about issues that affect humankind.

Course Objectives: After completing this course, you will be able to:

- describe, analyze, and assess the geologic features, events, and processes that impact your daily life
 - use evidence (e.g., from graphs, rocks, maps, etc.) to support an interpretation or explain a concept
 - understand the general principles associated with the discipline of geosciences including:
 - 1) Geoscientists use repeatable observations and testable ideas to explain and understand our planet
 - 2) Earth is 4.6 billion years old and has a complex and varied history
 - 3) Earth is a complex system of interacting rock, water, air, and life
 - 4) Earth is continuously changing, primarily due to active plate tectonics
 - 5) Humans depend on Earth for resources that are formed by geologic processes
 - 6) Natural hazards pose risks to humans and must be understood in order to minimize and mitigate risks
 - 7) Geologic processes have impacted the development of human civilization and the actions of humans can significantly impact the Earth
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Required materials:

- 1) *Exploring Geology (3rd Edition) with CONNECT Plus 1-semester Access Card, Reynolds, Johnson, Morin, and Carter (ISBN: 978-0077598570).* You may purchase a paper book or you may purchase an ebook through McGraw-Hill Connect. To purchase, or register for the online materials at McGraw-Hill Connect, or to try the free trial, use this URL for our class.
http://connect.mcgraw-hill.com/class/k_harper_spring_2014_geo101-50_online
You may, alternatively, buy a used copy of the text and purchase Connect access online.

(If you decide to purchase the ebook + access after trying the free trial, you can use this code to receive 15% off your purchase on the Mc-Graw Hill website. Promo CODE: SpringStudent

Textbook: Access to the textbook is essential for this course.

Note that a paper textbook is also on reserve at Mansfield Library at UM in Missoula.

Moodle: You can log into Moodle by going to UOnline from the UM homepage and entering your NetID and password. You will see your courses listed when you enter Moodle. If you have technical problems with Moodle, call the UOnline Techs at 243-4999 (during regular working hours only) or send them an email at umonline-help@umontana.edu

Online Assignments: Due dates for online assignments are listed on the schedule included here. Learnsmart modules are on McGraw-Hill Connect (follow link on Moodle). When you register for Connect, enter your name as it appears in the university directory (no nicknames, please!), and use your UM email address. Learnsmart modules are a study tool -these assignments required, but are scored on completion only. Your grade will be visible in McGraw-Hill Connect. I will transfer these periodically to the Moodle gradebook.

Please note that the Connect website has its own technical support staff. They are available for extended hours including evening and weekend hours, by phone or email. Please do not email me for technical support or help with your McGraw-Hill Connect account access.

Note that if you have taken this course before, you need to re-register for the new course on Connect. If your access is still valid, you should not have to pay again to do this, but you may need to contact the Connect tech support for assistance.

Reading quizzes will be on Moodle – you will be able to take the quizzes two times (up to 20 minutes each attempt) up to the deadline time given – your highest scoring attempt will be recorded for your grade. Your quiz grades will show up immediately in the Moodle gradebook.

Assessment:

Item	Percent of course grade
14 chapter quizzes	35
Final Exam (cumulative)	15
Learnsmart study modules	15
Assignments (investigations and other weekly assignments) and discussions	35
Total	100

Final grade: This course must be taken for a traditional letter grade to apply it to Gen Ed. A minimum of C- must be earned to apply the course for Gen Ed credit.

The following scale can be adjusted at my discretion.

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

Extra Credit – Extra Credit options up to 5% of the course grade will be offered.

One option for extra credit will be a Field Trip (participation and short assignment) leaving from UM offered on a Saturday – tentative date: April 19. Additional extra credit assignments will be offered via the Moodle site.

Communication: Please note that I will only use your official UM email to communicate with you. This is required to comply with FERPA (the Federal Educational Rights and Privacy Act). Email is the preferred way to contact me – a message left on my office phone will take longer to reach me. **It is your responsibility to make sure you read messages sent to your UM email address.**

Studying & Time Expectations: A standard benchmark for studying for a college science class is **3-4 hours/week for each semester credit hour.** This means that for our 3-hour class, you should plan to spend 9-12 hours per week. Part of that time you will be reading the textbook chapters. Some of the time will be spent working on LearnSmart modules and assignments, taking quizzes or discussing/studying with other students in the class.

Students with Disabilities: Whenever possible, and in accordance with civil rights laws, the University of Montana will attempt to provide reasonable modifications to students with disabilities who request and require them. Please feel free to setup a time with me to discuss any modifications that may be necessary for this course. For more information, visit the Disability Services for Students website at www.umt.edu/dss/

Academic Integrity: 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

GEO101-50 Spring, 2014 Course Schedule

Week	Date	Chapter in <i>Exploring Geology</i>	Checklist of all activities
One	Mon, Jan 27	Ch. 1 and 2 Geologic Questions	<input type="checkbox"/> Introductions Forum – by Fri. 1/31 midnight <input type="checkbox"/> Reading – Chapters 1 and 2 in text (omit 1.4, 1.9-10) Assignments due Sunday 2/2, midnight <input type="checkbox"/> LearnSmart Ch. 2 (on Connect website) <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 1/2 Moodle Quiz
Two	Mon, Feb 3	Ch. 3 Plate Tectonics	<input type="checkbox"/> Reading – Ch. 3 in text (omit 3.9, add 10.3) Assignments due Sunday 2/9, midnight <input type="checkbox"/> LearnSmart Ch. 3 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 3 Moodle Quiz
Three	Mon, Feb 10	Ch. 4 Earth Materials	<input type="checkbox"/> Reading – Ch. 4 in text (omit 4.7, 4.11-13, 4.15) Assignments due Sunday 2/16, midnight <input type="checkbox"/> LearnSmart Ch. 4 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 4 Moodle Quiz
Four	Mon, Feb 17	Ch. 5 Igneous Environments	<input type="checkbox"/> Reading – Ch. 5 in text (omit 5.5, 5.8, 5.13-15) Assignments due Sunday 2/23, midnight <input type="checkbox"/> LearnSmart Ch. 5 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 5 Moodle Quiz
Five	Mon, Feb 24	Ch. 6 Volcanoes	<input type="checkbox"/> Reading – Ch. 6 in text (omit 6.5, 6.9, 6.15) Assignments due Sunday 3/2, midnight <input type="checkbox"/> LearnSmart Ch. 6 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 6 Moodle Quiz

Unit	Week of	Chapter in <i>Exploring Geology</i>	Checklist of all activities
Six	Mon, Mar 3	Ch. 7 Sedimentary Rocks	<input type="checkbox"/> Reading – Ch. 7 in text (omit 7.8-12, 7.15) Assignments due Sunday 3/9, midnight <ul style="list-style-type: none"> <input type="checkbox"/> LearnSmart Ch. 7 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 7 Moodle Quiz
Seven	Mon, Mar 10	Ch. 8 Deformation and Metamorphism	<input type="checkbox"/> Reading – Ch. 8 in text (omit 8.10-11, 8.13-15) Assignments due Sunday 3.16, midnight <ul style="list-style-type: none"> <input type="checkbox"/> LearnSmart Ch. 8 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 8 Moodle Quiz
Eight	Mon, Mar 17	Ch. 9 Geologic Time	<input type="checkbox"/> Reading – Ch. 9 in text (omit 9.7, 9.10-12) Assignments due Sunday, 3/23, midnight <ul style="list-style-type: none"> <input type="checkbox"/> LearnSmart Ch. 9 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 9 Moodle Quiz
Nine	Mon, Mar 24	Ch. 11 Mountains, Basins, and Continents	<input type="checkbox"/> Reading – Ch. 11 in text Assignments due Sunday 3/30, midnight <ul style="list-style-type: none"> <input type="checkbox"/> LearnSmart Ch. 11 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 11 Moodle Quiz
SPRING BREAK WEEK			
Ten	Mon, Apr 7	Ch. 12 Earthquakes and Earth's Interior	<input type="checkbox"/> Reading – Ch. 12 in text ((omit 12.22-14, 12.17) Assignments due Sunday 4.13, midnight <ul style="list-style-type: none"> <input type="checkbox"/> LearnSmart Ch. 12 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 12 Moodle Quiz

Unit	Week of	Chapter in <i>Exploring Geology</i>	Checklist of all activities
Eleven	Mon, Apr 14	Ch. 18 Energy and Mineral Resources	<input type="checkbox"/> Reading – Ch. 18 in text (omit 18.6-8, 18.14) Assignments due Sunday 4/20, midnight <input type="checkbox"/> LearnSmart Ch. 18 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 18 Moodle Quiz
Twelve	Mon, Apr 21	Ch. 16 Streams and Flooding	<input type="checkbox"/> Reading – Ch. 16 in text (omit 16.4, 16.10-11, 16.15-16) Assignments due Sunday 4/27, midnight <input type="checkbox"/> LearnSmart Ch. 16 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 16 Moodle Quiz
Thirteen	Mon, Apr. 28	Ch. 17 Water Resources	<input type="checkbox"/> Reading – Ch. 17 in text (omit 17.6-7) Assignments due Sunday 4/27, midnight <input type="checkbox"/> LearnSmart Ch. 17 <input type="checkbox"/> Assignment <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 17 Moodle Quiz
Fourteen	Mon, May 5	Ch. 14 Glaciers and Changing Sea levels	<input type="checkbox"/> Reading – Ch. 14 in text (omit 14.9-16, 14.18-19) additional reading will be posted Assignments due Sunday 5/4, midnight <input type="checkbox"/> LearnSmart Ch. 14 <input type="checkbox"/> Activity of the week <input type="checkbox"/> Discussion submissions (forum) <input type="checkbox"/> Ch 14 Moodle Quiz
May 12-16		FINAL EXAM	

The above schedule, policies, procedures, and assignments for this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better student learning.