Physical Geology Geology 104 Syllabus Fall 2019

Instructor: Lisa Siewert **e-mail**: lsiewert@uwsp.edu
Office Hours: SCI D331 Friday 11:30am-1:30pm; or by appointment
Lecture: MW 11:00-11:50 p.m. in SCI D102
Labs in SCI D324: 1) M 12:00-1:50 2) W 9:00-10:50
Geology Study Room: SCI D328

Required Textbooks: Earth: Portrait of a Planet 5th ed. By Stephen Marshak
Laboratory Manual for Physical Geology 4th ed, by Allan Ludman

Learning Outcomes:

1. Apply scientific method with respect to plate tectonics & Earth's interior;
2. Understand the taxonomy of minerals & rocks
3. Interpret topographic & geologic maps;
4. Apply knowledge making predictions of Earth processes, resources & geohazards;
5. Assess the interrelationship of geologic processes, geologic events & life on Earth.

GEP Alignment:

- students will be able to explain major concepts, methods, or theories in the natural sciences to investigate the physical world.
- students will be able to interpret information, solve problems, and make decisions by applying natural science concepts, methods, and quantitative techniques.
- students will be able to describe the relevance of aspects of the natural sciences to their lives and society.

Canvas: Powerpoints, videos, and worksheets are available on Canvas.

Student Responsibility: Students are required to read the textbook prior to class, attend class regularly and to take tests during the scheduled time. Students should interact in a positive, polite manner and engage in scientific inquiry via active participation in classroom exercises, discussions, lab and readings. Absences, lack of preparation and/or poor behavior as determined by Lisa will adversely impact your grade. Be mature, responsible and respectful.

Grading: Generally, the following division will apply to all course grades:

A	94-100%	B	84-86%	C	74-76%	D	64-66%
A-	90-93%	B-	80-83%	C-	70-73%	F	<63%
B+	87-89%	C+	77-79%	D+	67-69%		

Mid-term Exams: 35% of total course grade
This consists of 3 mid-term exams. Exams will be mostly multiple-choice, matching, and short answer format. No make-up exams will be given. Instead, the final exam will be comprehensive. The final exam will be divided into three sections, with each section containing material covered in exams 1, 2, 3. Should you improve your percentage on one of the sections, then that percentage will replace a previous exam score in the gradebook. For example, if you scored a higher percentage on section 2 of the final exam, then that percentage would replace your exam 2 score. This method will only affect <u>one</u> previous exam.

Final Exam: 15% of total course grade (Thursday, December 19th 2:45-4:45pm SCI D102)
The final exam will be comprehensive. The final exam will be divided into three sections, with each section containing material covered in exams 1, 2, & 3. Should you improve your percentage on one of the sections, then that percentage will replace a previous exam score in the gradebook. This method will only affect one previous exam. For example, if you scored a higher percentage on section 2 of the final exam, then that percentage would replace your exam 2 score.

Lab: 25% of total course grade
Your lab and assignments grade will count for 25% of your overall course grade and will include 2 lab quizzes. You must bring to each week's lab your lab manual, lecture text, and pencils with erasers (pens are strongly discouraged in the lab). Lab is a required component in this course. Missing 4 or more labs will result in failure of the overall course.

Assignments: 25% of total course grade
Weekly reading quizzes and pre-lab worksheets will count toward 25% of your overall course grade. You must complete these assignments by the due dates listed on Canvas. Late assignments will be accepted with a 25% reduction in total points for each day late.

Attendance Policy: Attendance is required for all laboratory sessions. There is a strong correlation with student lecture attendance and success. While, I will not be taking attendance in lecture, there is a chance that some graded activities will occur without prior notice. Failure to attend will result in the loss of those points.

Disabilities: Students with disabilities of any nature are expected to meet with the instructor during the first week of classes to accommodate student needs.

Secrets of Success: Read assigned chapters *before* class. If a subject is not clear, ask questions at anytime. Ask for help/suggestions ***before*** **the third exam**.

- For more suggestions, check out: **http://www.wikihow.com/Take-Perfect-Lecture-Notes**
- 26 Free 28 minute Earth Revealed videos online at: **http://learner.org/resources/series78.html**
- Science Now: http://www.pbs.org/wgbh/nova/sciencenow/archive/date-20050125.html
- Science tutorials online: Kalman Khan Academy Free videos https://www.khanacademy.org/
- Great Short (5 minute) Geology Videos at http://www.youtube.com/c/GeoScienceVideos

****Tentative Schedule** Check Canvas for any updates!**

Week	Dates	Lecture Topic	Lab
1	9/4	Continental Drift	*No lab*
2	9/9	Plate Tectonics	2: Plate Tectonics
	9/11	Minerals	
3	9/16	Minerals	3: Minerals
	9/18	Igneous Rocks	
4	9/23	Volcanic Processes	5: Igneous Rocks
	9/25	Weathering	
5	9/30	Sedimentary Rocks	6: Sedimentary Rocks
	10/2	Sedimentary Rocks	
6	10/7	Metamorphic Rocks	7: Metamorphic Rocks
	10/9	**Exam 1**	
7	10/14	Earthquakes	Study day
	10/16	Crustal Deformation	
8	10/21	Crustal Deformation	**Rock and Mineral Quiz**
	10/23	Geologic Time	
9	10/28	Geologic Time	11: Earthquakes
	10/30	Geologic Resources	
10	11/4	Geologic Resources	12: Geologic History
	11/6	**Exam 2**	
11	11/11	Streams and Floods	13: Streams
	11/13	Streams and Floods	
12	11/18	Coastal Processes	17: Shorelines
	11/20	Coastal Processes	
13	11/25	Groundwater	14: Groundwater & 15: Arid
	11/27	Aeolian Processes	
14	12/2	Glaciation	15: Glacial
	12/4	Glaciation	
15	12/9	Climate Change	18: Changes
	12/11	**Exam 3**	
16	12/19	**Final Exam SCI D102 2:45-4:45pm**	