

Physical Geology 51-102 Lecture
Fall 2007
Section:

Instructor: Dr. Susannah Sandrin
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Required course text: Physical Geology, 2007, 11th edition by Plummer, McGeary and Carlson, McGraw Hill Publisher

Required lab manual: Laboratory Manual for Physical Geology, 2008, 6th edition by Jones and Jones, McGraw Hill Publisher. You may NOT use a used lab manual, as you will need to write in your copy!

Learning goals:

- Gain an understanding of the scientific process and how it is utilized to study planet Earth.
- Determine the important processes that change the surface of Earth.
- Learn the different types of rocks that make up Earth and how they are formed.
- Understand geologic time and the relative rate at which geologic processes take place.
- Describe how we depend on Earth for resources that drive our economies, countries and lives.
- Appreciate geologic hazards and why it's important to gain a greater understanding of the processes that cause them.

Office hours: If you have questions about the material, please take advantage of my office hours. It is MY responsibility to help you, and it is YOUR responsibility to seek help when needed.

- Mondays and Wednesdays: 1:00 – 2:00 PM
- Tuesdays: 8:00 – 9:00 AM
- Fridays by appointment
- When you catch me in my office

Course schedule

Important dates:

September 18: Last day to drop with 100% refund
October 1: EXAM 1
October 19: Last day to drop without Late Drop Appeal
October 29: EXAM 2

November 19: EXAM 3
 November 21 – 25: Thanksgiving Break
 December 12: EXAM 4
 December 14: Last day of classes
 Graduation: December 15

Exam dates are subject to change depending on the course of the lecture.

Week beginning	Topic and readings	Book chapters
September 3	Introduction to science; Overview of Earth systems, Earth construction, and geologic time	1 & 22 (pgs. 583-588)
September 10	Introduction to plate tectonics: How the Earth works	1 & 19
September 17	The basics: Atoms, compounds and minerals	2 & 21 (p. 569)
September 24	Rocks & plate tectonics; Igneous rocks & magma formation	3 & 21 (p. 570)
October 1	Volcanoes. Review for Exam 1. Exam 1	4
October 8	Weathering, soils and global chemical cycles	5
October 15	Sedimentary rocks; Interpreting sedimentary rocks; History of life recorded in rocks	6
October 22	Metamorphic rocks; Geologic time; Relative & quantitative age determinations	7 & 8
October 29	Exam 2 ; Hydrologic cycle; Streams & floods	10 & 11
November 5	Streams & floods (cont.); Groundwater	10 & 11
November 12	Glaciation; climate change and paleoclimates	12
November 19	Exam 3 ; Thanksgiving Break	15
November 26	Plate tectonics cont.- Geologic structures (stress, strain, folds and faults)	15
December 3	Earthquakes & Earth construction; Coal as an Earth resource	16, 17 & 21
December 10	Earth resources petroleum & minerals; Review; Exam 4	21

Attendance: Exam questions will come directly from course lecture and lab activities.

Absences: If you know in advance that you are going to miss an exam, arrangements can be made for a make-up exam by notifying your instructor BEFORE the exam (1 week minimum). If you miss an exam due to illness (and don't know ahead of time), a make-up exam will only be issued if you have a note from your doctor.

Special accommodations: Please register with Disability Services (424-3100 for voice and 424-1319 for TTY) and visit their website at <http://www.uwosh.edu/dean/disabilities.htm> for an accommodation request form. I will work with them to make necessary accommodations.

Grades

Lecture exams	60% (15% each exam)
Lab grade	30%
In-class exercises	10%

You **MUST attend lab** and have a passing grade in the laboratory portion of the course to receive a passing grade in the overall course. The laboratory syllabus is available at http://www.uwosh.edu/faculty_staff/hiatt/Teaching/102/Labs_2007.html.

You are responsible for bringing a #2 pencil and your student ID to each exam!

Grading scale

A	92% and above
AB	87 - 91%
B	82 - 86%
BC	77 - 81%
C	72 - 76%
CD	67 - 71%
D	60 - 66%
F	< 60%

Academic Integrity

The University of Wisconsin Oshkosh has published definitions of academic misconduct and details about procedures, sanctions and other information about academic integrity. This information is available at <http://www.uwosh.edu/dean/conduct.htm>. Students who are caught copying the work of others will be referred to the Dean of Students Office and may receive a failing grade in the course.