

## Physical Geology 51-102 Lecture Syllabus: Fall 2009 (4 credits) Section A09C

**Instructor:** Dr. George J. Hudak (aka Doc Hudak)  
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**Office hours:** Monday 12:40 – 1:40  
 Wednesday 12:40 – 1:40  
 Friday 12:40 – 1:40  
 or by appointment

**Class Schedule:** Lectures: MWF 10:20 – 11:20, Halsey 109

**Required Textbook:** Physical Geology, 12<sup>th</sup> Edition, by C.C. Plummer, and D. H. Carlson, McGraw-Hill Publishing, 651 pages.

**Book Website:** <http://www.mhhe.com/plummer12e>. I strongly recommend visiting this site often, and taking advantage of the various types of quizzes that are available as you prepare for lecture exams.

**Required Lab Manual:** Laboratory Manual in Physical Geology, 2005, 7<sup>th</sup> Edition by Jones and Jones, McGraw-Hill (Publisher). *NOTE: A USED LAB MANUAL IS NOT ACCEPTABLE.*

**Lab Manual Website:** <http://www.mhhe.com/jones7e>.

**Important Dates:** Thanksgiving Break: November 25-29  
 End of the semester: December 16

### **Course Policies:**

**Grades:** Your course grade will be based on four lecture exams (60%), your lab grade (35%), and in-class exercises (5%). *You must attend the lab to pass the course, and you must pass the laboratory portion of the course to receive an overall passing grade in the course.*

**Grade Scale:** The following grade scale will be used for the course:

<b>A</b>	95% and above	<b>C</b>	73-77%
<b>A-</b>	90-95%	<b>C-</b>	70-73%
<b>B+</b>	87-90%	<b>D+</b>	67-70%
<b>B</b>	83-87%	<b>D</b>	63-67%
<b>B-</b>	80-83%	<b>D-</b>	60-63%
<b>C+</b>	77-80%	<b>F</b>	<60%

**Exams:** There will be four lecture exams, each weighed equally, which will cover the materials from each preceding unit from the lecture and the class readings. Each exam will be in an objective multiple-choice format. ***Bring a #2 Pencil and your Student ID to each exam.***

The tentative exam schedule is as follows:

Exam 1:	Monday, October 5, 2009
Exam 2:	Friday, October 30, 2009
Exam 3:	Monday, November 23, 2009
Exam 4:	Wednesday, December 16, 2006

**In-Class Exercises:** A variety of in-class exercises will be completed during the lectures throughout the semester. You must complete the exercises during their specific lecture periods to get credit for the in-class exercises. As indicated above, these are 5% of your total grade.

**D2L Site:** There is a D2L site for this course. Refer to the D2L site daily for announcements, additional assignments, copies of class materials (e.g. handouts, etc.), and brief outlines for each of the class lectures.

**Geology Tutoring:** Free tutoring is provided by the Geology Department in Harrington 114. More details will be provided in class

**Attendance:** *Exam materials will come from my lectures, my reading assignments, and your laboratory assignments.* Your attendance in both the lecture and the laboratory is vital to your success in this course. If you miss a lecture, contact me, or one of your classmates, for the notes that you missed. If you have a valid excuse and must miss an exam, contact me **BEFORE** the exam date so that appropriate arrangements for a make-up exam can be made. **Only those individuals with valid excuses will be permitted to take make-up exams.**

**Special Accommodations:** Reasonable accommodations will be made for students with disabilities. Please contact Disability Services (424-3100 (voice) or 424-1319 (TTY)) or visit their web site at <http://www.uwosh.edu/dean/disabilities.htm> for the University's accommodation request form and documentation requirements. Information related to an individual's accommodation request will be kept confidential.

**Academic Integrity:** The Wisconsin Administrative Code states: "Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others academic endeavors." (§ UWS 14.01) Plagiarism and other forms of academic misconduct are serious offenses with severe penalties. See the University of Wisconsin Oshkosh Student Discipline Code for definitions of academic misconduct and details about procedures, sanctions, and other relevant information. Specific questions about the provisions in the Student Discipline Code should be directed to the Dean of Students Office. If you do not understand this statement, please see me as soon as possible.

**Purpose of this Course:** Physical Geology is an introduction to the study of the earth. This includes learning about earth materials (e.g. rocks, minerals, geological structures), earth processes (volcanism, weathering, earthquakes, tsunamis), and gaining a feeling for the vastness of geological time. Having a basic understanding of these items is essential to our future existence on earth – for example, given increasing population and ever changing political situations, how do we effectively manage our natural resources? How can we prevent large-scale natural disasters from occurring that are related to earth processes (e.g. volcanic eruptions, earthquakes, and tsunamis)? The list goes on and on....

Physical Geology is an essential part of a well-rounded liberal arts education. The basic understanding of earth materials and processes that you obtain in this course will not only increase your scientific skills and knowledge, but will also enable you to make educated evaluations and better decisions regarding future social, political, and societal issues.

## Physical Geology Lecture Schedule: Fall 2009

<i>Week of:</i>	<i>Lecture and Reading Topics</i>	<i>Reading in Text</i>
Sept. 7	Introduction to scientific thinking; Overview of Plate Tectonics and the Earth's General Construction	Chapter 1 (&19)
Sept. 14	Plate Tectonics (continued); Atoms, compounds, minerals	Chapters 1, 2
Sept. 21	Minerals (continued); Rock Cycle; Igneous Rocks and Magmas	Chapter 3
Sept. 28	Volcanology	Chapter 4
Oct. 5	<b>Exam 1 (Ch. 1-4);</b> Weathering, Soils, and Sediments	Chapter 5
Oct. 12	Sedimentary Rocks; Metamorphic Rocks	Chapters 6, 7
Oct. 19	Metamorphic Rocks (cont.); Geological Time	Chapters 7, 8
Oct. 26	Geological Time Scale: Relative and Absolute Age Dating; <b>Exam 2 (Ch. 5-8)</b>	Chapter 8
Nov. 2	Mass Wasting and Surface Processes	Chapter 9
Nov. 9	Streams and Floods; Groundwater	Chapters 10, 11
Nov. 16	Glaciation	Chapter 12
Nov. 23	<b>Exam 3 (Ch. 9 - 12): Thanksgiving Break</b>	Take a break
Nov. 30	Geological Structures; Earthquakes	Chapters 15,16
Dec. 7	The Earth's Interior; Introduction to Geological Resources	Chapter 17, 19
Dec. 14	Geological Resources; <b>Exam 4 (Ch. 15-17, 19, 21)</b>	Chapter 21

Please feel free to ask questions anytime during the lectures. Do not hesitate to set up an appointment to see me if you need help understanding the class materials. Please take advantage of my office hours.