

Physical Geology 51-102 Lecture: Fall 2010 (4 credits)

Section: B09C

Instructor: Dr. Eric Hiatt
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Class Schedule: Lectures: MWF 1:50-2:50 PM, Halsey 109. See [Laboratory Schedule here](#).

Office hours: 9:00-10:00 M & W; 3:15-4:00 M, W & F and by appointment or chance.

Important Dates: 9/14/10 = Last day to add without instructor signature; 10/22 = last day to drop without late drop request or withdraw; Thanksgiving Break = November 24-28; Semester end = December 17; Graduation: December 18.

Grades: Your course grade will be based on four lecture exams (60%), your lab grade (30%), and in-class exercises** (10%). Note: you must attend the lab to pass the course, and you must pass the laboratory portion of the course to receive a passing grade in the overall course.

****In-Class exercises** will include written answers to questions, and interpretive sketches based on photos shown to the class.

Grade scale: 93% and up = A; 90-92 = A-; 87-89 = B+; 83-86 = B; 80-82 = B-; 77-79 = C+; 73-76 = C; 69-72 = C-; 66-68 = D+; 63-65 = D; 60-62 = D-; <60% = F

Exams: The lecture exams will be weighted equally, can cover material from lab, and will be in an objective multiple-choice format. **Bring a #2 pencil and YOUR STUDENT I. D. to each exam.**

The tentative (subject to change) **exam schedule is:**

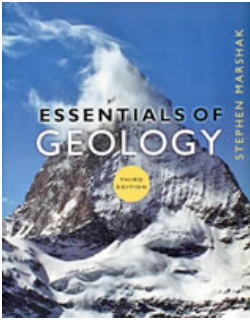
Exam 1 October 6
Exam 2 October 29
Exam 3 November 19
Exam 4 December 15

Attendance: The **material on the exams will come from the lecture and lab** so attendance in both is required if you wish to do well in the course. Please feel free to ask questions at any time, including during lecture; however, **disruptive behavior, including talking during lecture & text messaging, is not acceptable** and **will result in a lower course grade**. If you have a valid excuse and must miss an exam, contact me **BEFORE** the exam date. If you have a valid excuse, you may take a makeup exam.

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.

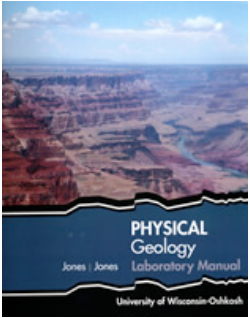
Academic Integrity: The Wisconsin Administrative Code states: "Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others academic endeavors." (§ UWS 14.01) Plagiarism and other forms of academic misconduct are 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.

Course Objectives: This Physical Geology course is designed to give you an understanding of how the Earth works. Topics that we will discuss include: what causes earthquakes, how old is the Earth and how we know this, how has the Earth evolved into the world that we see, and the nature, limitations, and benefits associated with extracting natural resources, such as petroleum. For all of these reasons, study of Physical Geology is part of a well-rounded liberal arts education. It is your responsibility as an educated member of a democracy to have a basic understanding of how the world works in geologic terms, as well as an understanding of social, political, and societal aspects of the natural resources.



Required text: [Essential of Geology Geology, 2009](#), 3rd edition by Marshak, Norton Publisher. The Price is about \$86 new at the bookstore, but may be found on other online sources.

Alternatives: You can also use a web-based, e-book, version of this text for \$35 (less than half the cost of the paper version and about \$10 less than the [rental cost](#)). To buy the e-book go to [Norton's eBook web site](#). Click on the "Purchase Instant Access to the Site" link to purchase access to either the down-loadable or web-hosted versions. The web-based version is available to you on any computer, but expires in one year. The down-loadable version is down-loaded on one computer but does not expire.



Required lab manual: **UW-Oshkosh custom** Physical Geology Laboratory Manual, 2009, 7th edition by Jones and Jones, McGraw Hill Publisher. (Click on the cover photo for a larger version.)

****This is a customized edition for our labs that costs less than the normal edition. This is the only edition that is acceptable.**

Note: a used, borrowed, or shared lab manual is NOT acceptable -- really.

Physical Geology Lecture Schedule: Fall 2010

| Week of: | Topic and readings: | Chapter in Text |
|----------|---|-----------------------------|
| Sept. 6 | Introduction to science and scientific inquiry; Earth in space and time; Overview of how planet Earth is constructed. | Chp. 1 |
| Sept. 13 | Plate Tectonics I: Overview of how the Earth works. | Chp. 2 |
| Sept. 20 | Atoms, compounds, and minerals. | Chp. 3 |
| Sept. 27 | Rocks & plate tectonics; Igneous rocks; Formation of magmas. | Interlude A & Chp. 4 |
| Oct. 4 | Volcanoes; Exam 1 (Oct. 6) ; Weathering, soils and global chemical cycles. | Chp. 5 & Interlude B |
| Oct. 11 | Reading the history of life: Sedimentary rocks. | Chp. 6 |
| Oct. 18 | Interpreting sedimentary rocks. | Chp. 6 |
| Oct. 25 | Metamorphic rocks; Exam 2 (Oct. 29) . | Chp. 7 |
| Nov. 1 | The vastness of Geologic time; relative age determinations; quantitative age determination | Chp. 10 |
| Nov. 8 | The hydrologic cycle; streams and floods; groundwater. | Interlude F & Chps. 14 & 16 |
| Nov. 15 | Plate tectonics II: Geologic structures (stress, strain, folds & faults); Exam 3 (Nov. 19) . | Chp. 9 |
| Nov. 22 | Earthquakes and how the Earth is constructed; Thanksgiving Break | Chp. 8 |
| Nov. 29 | Glaciers and glaciation. | Chp. 18 |
| Dec. 6 | A geologic perspective on climate change. Earth resources. | Chp. 19 |
| Dec. 13 | Earth resources: coal & petroleum; Review, Exam 4 (Dec. 15) . | Chp. 12 |

Important Dates:

Last day to drop **without Late Drop Appeal**: **October 22**.

Thanksgiving Break: November 24-28.

Last Exam: Wednesday, December 15.

Last day of classes: December 17.

Graduation: December 18.

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