

**ENVIRONMENTAL GEOLOGY: 51-150 (4 credits)****Instructor Information**

**Instructor:** Matthew Kawa

**Office Number:** Harrington 208

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**Office Hours:** M, W: 12:40 p.m. – 2:50 p.m., R: 10:20 a.m. – 12:30 p.m., or by appointment

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**Course Information (Lecture)**

**Class Day and Time:** MWF – 9:10 a.m. – 10:10 a.m.

**Room Number:** Halsey 106

**Course Website:** (<https://uwosh.courses.wisconsin.edu>)

**Further Reading:** To be announced (check D2L)

**Course Description:** This course will provide instruction on (1) environmental hazards associated with geological processes, and (2) how scientists use geological principles to address human induced environmental problems as well as adapting to significant geologic hazards. The course consists of information in the following categories:

- 1) A brief introduction to general geologic principles, processes, hazards, and the human environment
- 2) Use of the scientific process and geological principles in reporting and addressing environmental problems and concerns
- 3) Human interaction and adaptation to the geologic environment

**Goals:** Successful completion of this course will provide knowledge and appreciation of:

- 1) General principles of physical geology
- 2) The scientific process and the crucial role it plays in environmental considerations
- 3) Environmental considerations and how geologists address these issues
- 4) The major geologic hazards around the world and human coexistence within these environments
- 5) The role of energy conservation, alternatives, and geologic perspectives to “global warming”
- 6) Awareness of the local geology and landforms

**Class Attendance, Preparation, and Participation**

Consistent attendance in class is critical to successful completion of this course. Not attending lecture regularly makes it difficult to achieve a desirable grade. Please be to class on time. Attendance is **REQUIRED** and will be periodically checked using the Classroom Response Pad (CRP). You are **NOT ALLOWED** to use another student’s CRP and “click” them in. Attendance percentage may possibly sway your final grade one way or the other. Reading assignments should be completed prior to lecture. Assigned reading is significant in that it aids in understanding lecture material and will help you achieve good scores on exams.

## Required Textbook/Other Materials

Environmental Geology, 7<sup>th</sup> Edition, 2006, Montgomery, Carla W.

Please refer to the following textbook link for additional study help and information:

[http://highered.mcgraw-hill.com/sites/0072528168/student\\_view0/index.html](http://highered.mcgraw-hill.com/sites/0072528168/student_view0/index.html)

An Einstruction Classroom Response Pad (CRP) is required for this course. CRP's are sold individually at the bookstore. Details to follow on D2L on how to register your CRP.

Refer to the **laboratory syllabus** for information on your lab text and any other supplies you need to have.

### **\*\*Tentative Lecture and Exam Schedule\*\***

<b>Week of:</b>	<b>Topic</b>	<b>Assigned Text Reading</b>
9-3	Course Introduction, The Scientific Method, Overview of our Planet,	Chapter 1
9-10	Minerals and Rocks, Geologic Time	Chapters 2 and Appendix A
9-17	Plate Tectonics, Earthquakes and Volcanoes	Chapters 3, 4, and 5
9-24	Earthquakes and Volcanoes continued, Exam 1 Review	Chapter 5
10-1	<b>EXAM 1: 10-1 (Chapters 1, 2, 3, 4, 5, and Appendix A)</b> , Glacial Geology, Mass Movements, Water as a Resource	Chapters 8, 9, and 10
10-8	Water as a Resource continued, Streams, Rivers, and Flooding	Chapters 10 and 6
10-15	Coastal Processes, Soil as a Resource	Chapters 7 and 11
10-22	Mineral and Rock Resources, Energy Resources – Fossil Fuels	Chapters 12 and 13
10-29	Energy Resources – Fossil Fuels continued, Exam 2 Review	Chapter 13
11-5	<b>EXAM 2: 11-5 (Chapters 6, 7, 8, 9, 10, 11, 12, 13)</b> , Energy Conservation and Renewable Energy Resources	Chapter 14
11-12	Energy Conservation and Renewable Energy Resources continued, Waste Disposal	Chapter 14 and 15 Handouts (see D2L)
11-19	Waste Disposal continued and Air Pollution	Chapter 15 and 16
11-26	Geology and Climate, Human Population, Land-use planning/conservation	Chapters 9 and 1
12-3	Land-use planning/conservation, Exam 3 Review	Chapter 19
12-10	<b>EXAM 3 (Chapters 1, 9, 14, 15, 16, handouts)</b>	

**\*\*I reserve the right to modify this outline. Changes will likely take place. I will inform you of such changes/modifications as warranted and will post them on D2L\*\***

**Exams:** There will be 3 lecture examinations. These will comprise a majority of your final grade calculation. Exams will cover all lectures, assigned reading information, and handouts prior to the exam date. Exams **will not** be cumulative. **Please bring your student ID and a #2 pencil to the exam.** Please inform me at least one week in advance if you need special accommodations. No makeup exams will be given unless (1) the student has informed at least one week ahead of time with a **VALID** reason on why they will miss the scheduled exam, and (2) a student produces a signed doctor's note regarding illness.

**Grading:** Percentages from the three lecture exams (~2/3), laboratory (~1/3), and attendance will be used to calculate your final grade. Students must pass (>60%) laboratory in order to pass the course.

**\* Please keep track of your scores throughout the semester \***

**Additional Learning Resources and Recommended Reading:** D2L will be utilized as a course management tool for this course. It is the "life-line" between the instructors of this course and you, the student. Here you will find useful and pertinent information regarding the course. Please refer to it prior to lecture and laboratory everyday in case of any changes, cancellations, or other news

**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 [www.uwosh.edu/dean/disabilities.htm](http://www.uwosh.edu/dean/disabilities.htm) for the University's accommodation request form and requirements

**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, etc.