

Physical Geology

Earth & Env. Sciences 1110

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Fall 2015

Office: Room 208 Blessey Hall

Office Hours MWF 1:00 -3:00 PM
and by appointment.

Course Goals and Objectives:

The goals of this course are to enable the student to understand the Earth and Earth processes so that the student will be able to:

1. Read the landscape for the story of its evolution, development, hazards, potential and likely future given common Earth surface processes.
2. Interpret hazards and resource opportunities posed by geologic environments created through plate tectonic and Earth surface processes such as earthquakes, volcanoes, river valley evolution, coastal processes, and climatic change.
3. Describe the interaction and interdependence of the geologic environment and human activity at the societal level.
4. Participate meaningfully in public discussion of geoscience issues correctly using the methods and data of science.

Textbook: *Earth, Portrait of a Planet 5th Edition* by Stephen Marshak

Course Grading: Your grade in the course will be based on the following distribution of work:

Lecture Exam 1	25%
Lecture Exam 2	25%
Quizzes	15%
Final Exam	35%

The dates of the exams are given in the schedule below. These dates are fixed. Quizzes will occur randomly throughout the course. These will consist of short questions on material recently covered in lectures. Two quiz grades will be dropped before determining your final quiz grade.

NOTE: There will be NO Make-up Exams. All exams and quizzes are cumulative, that is they could involve any material covered up to the point of the exam or quiz.

Lecture notes and new announcements that might take place during the course can be found on the EENS 1110 homepage at: <http://www.tulane.edu/~sanelson/eens1110/> Note that this web site is accessible from any internet connection and does not require you to connect through Blackboard. Check back with this page often, as material on the web page is updated on a regular basis.

PDF versions of all Lecture PowerPoints will be posted on Blackboard, but not until after the lectures are given. These will be found in the Course Content section on Blackboard.

Tentative Schedule of Lectures and Reading Assignments
(All readings from Marshak)

Date	Topic	Reading
Aug 25	Planet Earth	Chapters 1 & 2
Aug 27	Plate Tectonics	Chapters 3 & 4
Sep 1	Plate Tectonics	Chapter 4
Sep 3	Minerals	Chapter 5
Sep 8	Magma & Igneous Rocks	Chapter 6
Sep 10	Volcanic Eruptions	Chapter 9
Sep 15	Sediments, Soils and Sedimentary Rocks	Chapter 7
Sep 17	Sedimentary Rocks	Chapter 7
Sep 22	Metamorphism and Metamorphic Rocks	Chapter 8
Sep 24	FIRST MIDTERM EXAM	Chapters 1 - 9
Sep 29	Earthquakes and the Earth's Interior	Chapter 10
Oct 1	Earthquakes and the Earth's Interior	Chapter 10
Oct. 6	Deformation of Rocks	Chapter 11
Oct 8	Deformation of Rocks	Chapter 11
Oct 13	Fossils, Evolution and Geologic Time	Chapter 12
Oct 15	FALL BREAK	
Oct 20	Geologic Time	Chapter 12
Oct 22	Energy Resources	Chapter 14
Oct 27	Mineral Resources	Chapter 15
Oct 29	SECOND MIDTERM EXAM	Chapters 1- 15
Nov 3	Landslides	Chapter 16
Nov 5	Streams	Chapter 17
Nov 10	Streams, Oceans and Coasts	Chapter 17 & 18
Nov 12	Oceans and Coasts	Chapter 18
Nov 17	Groundwater, Earth's Atmosphere	Chapter 19 & 20
Nov 19	Deserts	Chapter 21
Nov 24	Glaciers	Chapter 22
Nov 26	THANKSGIVING	
Dec 1	Glaciers	Chapter 22

Dec 3	Global Change	Chapter 23
Dec 13	FINAL EXAMINATION 1:00 PM	Chapters 1 - 23

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