

Geomorphology

Geol 3210

Spring 2006

Time: Lecture MW 11:00 – 11:50 MonH 206

Text: Surface Processes and Landforms 2nd Ed. by Easterbrook,

LABS: Lab 002 Cancelled

Lab 003 F 10:00 – 11:50, Chem 207

**You will need a calculator and colored pencils for Lab

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Week	Topic	Required Reading	Lab
I	Course Introduction	Chapter 1	GIS Introduction
II	Basic Concepts Boundary Conditions: Internal forces, Climate	Chapter 2	Topo Maps/Landscapes
III	The Resisting Framework: Chemical Weathering / Physical Weathering	Chapter 3	Weathering
IV	Physical Weathering / Mass Movement/Slope processes	Chapter 4	Soils
V	Fluvial Processes and Landforms – The River Channel and Flow Mechanics Sediment Transport Drainage Basins	Chapter 5	Mass Movement
VI	Fluvial Processes and Landforms – Hydrology and runoff	Chapter 5	Fluvial Processes and Landforms
VII	Drainage Basins – Drainage Networks and Basin Morphometry	Chapter 6	Fluvial Processes and Landforms
VIII	Catch-up/Review and Exam 1		Fluvial Processes and Landforms
IX	Drainage Basins – Drainage Networks and Basin Morphometry	Chapter 6	Stream Paleohydrology
	Spring Break		
X	Groundwater Systems and Karst Processes and Landforms	Chapter 7	Landforms and rock structure
XI	Tectonics, Landforms, and Topographic Expression	Chapter 8, 9,	Landforms and rock structure
XII	Tectonics, Landforms, and Topographic Expression	Chapter 10, 11	Landforms and rock structure
XIII	Glacial Processes and Landforms	Chapter 12	Glacial landscapes
XIV	Glacial Processes and Landforms	Chapter 13	Field Trip
XV	Eolian Processes and Landforms and Coastal Geomorphology	Chapter 16, 17	Glacial landscapes
Final	Final Exam		

Individuals who have any disability, either permanent or temporary, which might affect their ability to perform in this class are encouraged to inform the instructor at the start of the term. Adaptation of methods, materials, or testing may be made as required to provide for equitable participation.

Attendance Policy: **Required and Expected!** Lectures are not simply reiteration of textbook material, but will supply additional information and provide emphasis of the most important topics. PowerPoint presentations, 35mm slides, videos, and other visual aids will be used.

Exams:

Lecture: Midterm and Final Exams will have three sections: 1) short answer, 2) paragraph-length answers, and 3) essays. The exams will be handed out early in the 8th and 15th weeks of the term. Each exam will be in a sealed envelope. The exams will be taken on your honor, which means that you agree to work on your own exam without help from others in the class. You are welcome to study with other individuals or in groups. When you are ready to take the exam you can open the envelope; once opened you will have 3 hours for the midterm and 4 hours for the final. When the time is up you will put the exam back in the envelope and turn it in.

Lab: The lab is not simply a reiteration of material covered in lecture. Many geomorphic processes will be covered in one forum or another but not both. Lab will have no exams. However, there will be weekly assignments. Assignments will consist of exercises from a laboratory manual, often augmented by additional materials. Assignments will be due during the next lab period. Assignments that are one week late will be accepted at 50% credit. No assignments will be accepted after that.

Course Grade: 2/3 of the course grade based on lecture

Midterm 100 points

Final 100 Points

1/3 of the course grade will be based on Lab,

Each lab is worth 10 points. Lab grades will be normalized to a total of 100 pts.

Labs will include map and air photo interpretation, observation, and data gathering

Many of the labs will require calculations and write-ups that must be completed outside of the normal lab session

**Please have a slide rule or calculator handy for Lab and colored pencils.

Grading: Final point totals will be graded on a curve with the following guarantees:

90% and above A

80% B
70% C
60% D
< 60% F

Exam Makeup Policy: NO MAKEUP EXAMS WILL BE GIVEN UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE INSTRUCTOR OR TA PRIOR TO THE EXAM DATE.

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