

## OXFORD COLLEGE

Geology 250 – Mineral Resources, Energy and Power

Spring, 2001

### Course Announcements

Instructor: Dr. Stephen W. Henderson

Office: 106 Pierce Hall

Office Phone: (770)784-8345

Goals of the course: Mineral Resources, Energy and Power will give students an understanding of scientific investigation as it relates to the geologic origin of the Earth's mineral and energy resources. The emphasis is on the geologic nature of nonmetallic, metallic, and energy resources. Students will also gain knowledge and appreciation of the historic development, uses, environmental concerns, and future potential of these resources. When this course is over, students will have considerable insight when they use a metallic object or turn on a light.

Organization: The class will meet for lecture two times each week: Tuesday and Thursday at 9:30 a.m. The laboratory section is from 2:00-5:00 p.m. on Wednesday and includes some Saturday or Sunday field trips.

Attendance: All students are expected to attend all scheduled lecture and laboratory sessions. Attendance will be taken. No unexcused cuts are allowed in lab. Field trips are required. Students who have an unexcused absence in lab will have their final grade reduced 3 points per absence. A student who has three or fewer lecture absences for the entire semester will receive the addition of two points to the final course average. There are no excused absences. Students having five or more lecture absences will have their final course grade reduced one point per absence starting with the fifth absence.

Honor Code: The Oxford College Honor Code applies to this course. If unsure whether or not how a particular assignment falls under the Honor Code, ask the professor prior to doing the assignment.

EMORY UNIVERSITY



050000020188

Grading System: Geology 250 will use the plus-minus grading system. The distribution of grades is as follows:

A	93-100	C+	77-79
A-	90-92	C	73-76
B+	87-89	C-	70-72
B	83-86	D+	67-69
B-	80-82	D	60-66
		F	59 and below

Evaluation: Lecture work will comprise 65% of your final average. Lab will comprise the remaining 35%. It is broken down as follows.

Lecture Quizzes (best 1 of 2)	15%
Lecture Test #1 on 2/27	15%
Lecture Test #2 on 4/12	15%
Final Exam on 5/3 @ 2:00 p.m.	20%
Lab Test on 2/21	15%
Lab Reports	20%

**Tentative Lecture Schedule:**

<b><u>Day</u></b>	<b><u>Topic</u></b>	<b><u>Lecture Quiz</u></b>
Th 1/18	Introduction and geologic background including plate tectonics, minerals & rocks	
Tu 1/23		
Th 1/25		
Tu 1/30		
Th 2/1		
Tu 2/6	Mineral Resources	Lecture Quiz #1
Th 2/8		
Tu 2/13		
Th 2/15		
Tu 2/20		
Th 2/22		
Tu 2/27	Lecture Test #1	
Th 3/1		
Tu 3/6		
Th 3/8		

***SPRING BREAK    SPRING BREAK    SPRING BREAK    SPRING BREAK***

Tu 3/20

Th 3/22

Energy Resources

Lecture Quiz #2

Tu 3/27

Th 3/29

Tu 4/3

Tu 4/10

Th 4/12

Lecture Test #2

Tu 4/17

Th 4/19

Tu 4/24

Th 4/26

Tu 5/1

**Laboratory Schedule for Geology 250:**

<u>Lab Day</u>	<u>Topic</u>	<u>Lab Reports</u>
1/24	Industrial Minerals	
1/31	Industrial Rocks	
2/7	Building Stones	
2/14	Local Quarry Field Trip	
2/21	Lab Test	
2/28	No Lab	
3/4	Sunday Mineral Resources Field Trip to Graves Mtn.	
3/7	No Lab	
3/21	Work up Graves Mtn. Water Sample Results	Yes
3/28	Hydrocarbon Exploration	Yes
4/4	Crude Oil Distillation	Yes
4/11	No Lab	

4/18	Solar Energy	Yes
4/25	Alternative Energy Field Trip	