

Geology 100, Geology and Human Affairs

(a.k.a. Earth System Science...)



Fall 2006

Lecture: Tuesday, Thursday: 11:00 to 12:15 am; PS 108

Lab: 2 afternoon, 2 evening, corequisite for course

Website: <http://www.isu.edu/~crosbenj/Teach/Geo100>

Instructor: Ben Crosby, PS 229, 282-2949. crosbenj@isu.edu

Office Hours: Wednesday, 1:30 to 3:30 pm or as arranged by email

Text: Environmental Geology and ESS, 1st edition, Keller and Christopherson,

ISBN: 0-536-26696-4, **required. Expect insurmountable difficulties without it.**

Supplemental reading will be provided as necessary

Course Description:

This course can be coarsely divided into two units. First we focus on the interactions between the 4 fundamental components of the Earth System:

- The Solid Earth
- The Atmosphere
- The Hydrosphere
- The Biosphere

The second half of the course focuses on the way humans are inextricably linked to this system. We will examine how humans are dependent upon its resources, sensitive to its hazards and exert a strong influence on its long term stability and function.

Grading Scheme:	<u>% of grade</u>		
Midterm 1	25	(Sept 19 th	during class)
Midterm 2	30	(October 24 th	during class)
Final Exam	35	(December 15	7:30am-9:30am)
Occasional Exercises	10		

Instructional Technology Requisite

Every student in this class must have his or her own email account. If you don't have one at home or work you can use, the university will provide one for you. Email is the best method of reaching me quickly and getting individual help.

"Extra credit" work

There is no "extra credit" work given in this course for the purposes of changing grades.

Laboratory exercises

*The laboratory portion of the course is required. Please make sure you are registered for a Geology 100 lab. Labs **will** meet the first week of classes.* The laboratory exercises are a very important component of this course. They will build on material in lectures and apply that material to real-life situations. Plan to come every week and work diligently and have fun.

How to succeed in this course

- a) Read the pertinent chapter in the textbook before coming to lecture
- b) Take legible, thorough notes in class and while you read the text.
- c) Review your notes frequently. Don't wait until the night before an exam to cram.
- d) Ask questions in class, and/or come to my office hours or visit your lab instructor.
- e) Study with a classmate. Try to explaining course material to friends or family.
- f) Come to your laboratory session every week, work diligently, and tune in.
- g) Come to every lecture, for the whole class period. Stay awake!
- h) Don't miss the exams: make-ups allowed only in truly *exceptional* circumstances.

Welcome Freshmen!

If you have general questions about schedules (or anything else), visit Supplemental Advising, located in 316 of the Administration Building (282.3277). If you have questions about courses or majors in this department, please let me know and I can help.

Our program is committed to all students achieving their potential. If you have a disability or think you have a disability (physical, learning disability, hearing, vision, psychiatric) which may need a reasonable accommodation, please contact the ADA Disabilities & Resource Center located in Graveley Hall, Room 123, 282-3599 as early as possible.

A Preliminary Schedule for Geo 100...as with the earth, things might shift a bit.

Week	Dates	Topic	Reading
1	Aug 22, 24	Introduction to the course and the 4 Earth Systems	1a, 1b
2	Aug 29, 31	Earth Origin and Composition Plate Tectonics, Earthquakes, Volcanoes	3a
3	Sep 05, 07		2a,5a
4	Sep 12, 14		6a
5	Sep 19, 21	Midterm , Sept 19 th / Solar energy	2b,3b
6	Sep 26, 28	Atmosphere and Hydrosphere: Climate Weather, the Ocean	2b,3b
7	Oct 03, 05		4b, 7b
8	Oct 10, 12		6b,4b
9	Oct 17, 19	The Biosphere and its adaptation to physical systems	16b
10	Oct 24, 26	Midterm Oct 24 th / Begin Humans	4a
11	Oct 31, Nov 02	Humans and the Earth System	15b,8a
12	Nov 07, 09	Hazards and resources	7a,6b
13	Nov 14, 16		14a
14	Nov 21, 23	VACATION!	
15	Nov 28, 30	Global Climate Change: Influence and Impact on Humans	18a
16	Dec 05, 07		2b
17	Dec 15	Final Exam: 7:30am-9:30am	