

Environment of the Earth GEOL 103
Spring 2012
Lectures: T Th: 11:00-12:15pm Currell College Room 107

This course describes the earth as a system, the various processes that affect human-kind. It explains the makeup of the earth, its resources and the various uses and misuses of the same. This course will provide you with an excellent background on: (a) basic concepts of geology, rocks, minerals and earth processes; (b) information on natural hazards; (c) relation between natural resources and pollution and (d) environmental management of human activities and earth resources

Instructor(s): Dr. Venkat Lakshmi, Professor, Department of Earth and Ocean Sciences,
University of South Carolina Columbia SC
Office Room Number Earth and Water Science Building EWS 407
(803)-777-3552 Email: vlakshmi@geol.sc.edu
OFFICE HOURS by appointment [email]

Teaching Assistants: Ryan Antle (antle@email.sc.edu): Sections 3, 4, 8
Tim McClinton (tmccclinton@geol.sc.edu): Sections 2, 5, 9
Chelsea Wegner (chelseawegs@gmail.com): Sections 1, 6, 7

Textbook: *Environmental Geology*, Eight Edition, Edward A Keller, Pearson Prentice Hall, NJ,
2000 ISBN 0-13-022466-9; QE38.K45 2000

Topics:

- [1] Foundations of Environmental Geology
- [2] Hazardous Earth Processes
- [3] Human Interactions with the Environment
- [4] Minerals, Energy and Environment
- [5] Global change, land use and decision making

Grading:

Three in-class 1 hour [11:00-12:00] tests	02/02; 03/01; 04/03 (15% *3)	45%
Final	04/30, 9:00am	15%
Lab Exercises		40%

Early exams can be arranged **ONLY** if you notify Dr. Lakshmi BY EMAIL, at least one week prior to the exam date. Medical problems related issues such as make-up exams and late assignments will only be permitted with a note from the doctor or proper authority.

Lab: Lab attendance is **mandatory**. *Lab work must be turned in at the end of lab. No late homework or laboratory exercises will be accepted.* Final grades will be based on STRAIGHT PERCENTAGES, 90 - 100% = A, 80 – 89% = B, 70 – 79% = C, 60 – 69% = D and < 60% = F. If you are curious about how you are doing in class add up the number of points you earned, divide by the total, multiply by 100% and check with above. Make-up labs will only be permitted with a note from the doctor or proper authority. A basic function calculator is strongly recommended for lab work. *******If you know ahead of time that you are going to miss a lab, find another section you can attend that same week and email your IA to ask them if you may attend that section instead.*******

Readings:

It is a good idea to read the book before coming to class. Below is a list of all the topics covered in the lectures. In case we are covering a chapter in two lectures, please read half the chapter before the first lecture and the second half before the second lecture on that chapter.

January

10	Introduction	12	Chapter 1	17	Chapter 2	19	Chapter 2
24	Chapter 3	26	Chapter 3	31	Review		

February

2	Test 1	7	Chapter 4	9	Chapter 5	14	Chapter 6
16	Chapter 7	21	Chapter 8	23	Chapter 9	28	Review

March

1	Test 2	13	Chapter 10	15	Chapter 11	20	Chapter 12
22	Chapter 13	27	Chapter 14	29	Review		

April

3	Test 3	5	Chapter 15	10	Chapter 16	12	Chapter 17
17	Chapter 18	19	Final Review				

April

30	Final Exam 9:00 am						
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Exams:

Exams are closed book and closed notes. The final will take ~2 hours and it is **not cumulative**. The exams will be mostly multiple choice with some fill-in the blank and essay questions. All questions will come from topics covered in lectures, the reading assignments and the laboratory.

Laboratory Exercises (Week of):

January

9-13	<i>No Laboratory</i>	16-20	<i>No Laboratory</i>	23-27	<i>Minerals</i>	30-3	<i>Rocks</i>
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February

6-10	<i>Geological Time</i>	13-17	<i>Earthquakes</i>	20-24	<i>Topographical Maps</i>		
27-2	<i>Weathering</i>						

March

12-16	<i>Soil Properties</i>	19-23	<i>Soil Infiltration</i>	26-30	<i>Groundwater</i>		
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April

2-6	<i>River Discharge Rates</i>	9-13	<i>Congaree River</i>	16-20	<i>Make-up lab if needed</i>		
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LABORATORY ENROLLMENT OVERIDES WILL NOT BE GRANTED. YOU MUST RESOLVE COURSE CONFLICTS WITH YOUR ACADEMIC ADVISOR AND THE REGISTRAR.

STATEMENT OF ACADEMIC HONESTY

It is the responsibility of every student to maintain academic integrity and adopt honest methods in this class. Cheating in lab exercises or exams will be grounds for review and penalty.