GEOL E103: ENVIRONMENT OF THE EARTH  
SYLLABUS**  SPRING 2013

Lectures:  M,W  5:30 – 6:45 PM  EWSC 209  
Lab  W  6:45 – 8:45 PM  EWSC TBD

Professor:  Dr. Robert Trenkamp, Office: EWSC 205  
Phone: 777-2419; e-mail trenkamp@geol.sc.edu  
Office Hours:  1.0 hour before class

Textbooks:  Introduction to Environmental Geology:  5th edition,  

Topics:  [1] Foundations of Environmental Geology  
[2] Earth Processes and Natural Hazards  
[3] Resources and Pollution  
[4] Environmental Management, Global Perspective and Society

EXAMS:  All in-class exams will be based on the lectures and textbook readings. There  
will be a total of three in-class exams. Each exam will consist of questions which will  
total 150 points. Exam questions will be multiple-choice, T/F, fill in the blanks or  
annotate the figure. The exams will be given during the normal class meetings, with the  
exception of the final exam. The final exam will be worth 300 points and is  
comprehensive.

GRADING:  The final course grade will be based on a total of 1000 points, as follows:  
3 in-class exams: worth together 45% of final grade.  
Final exam: worth 30% of final grade  
Laboratory: 25% of final grade

- Exams (750 points = 75%)  
  - Midterm Exam 1 (150 points)  
  - Midterm Exam 2 (150 points)  
  - Midterm Exam 3 (150 points)  
  - Final Exam (300 points)  
- Laboratory grade (250 points = 25%)

Know your class standing:  Based on this grading policy, you should be able to  
determine your grade in the course at any time by adding up the points you have earned,  
and dividing by the number of points possible up to that point in the course. Grades  
will be assigned on a scale as follows:

Grade Assignment:  
90 – 100%  A  
80 – 89%  B  
70 – 79%  C  
60 – 69%  D  
< 60%  F
Course Objectives and Learning Outcomes:
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
(d) environmental management of human activities and earth resources

Attendance:  Class attendance is one of the most important ways to gain knowledge of the material in this course. Attendance at all lectures is highly recommended, as many exam questions will be based on the lectures. Attendance will be taken in lecture.

USC policies allow instructors to assess a grade penalty for any student missing more than 10% of class periods.

Cell Phone Policy:  Use of cellular and mobile phones, pagers, etc., during either lecture or lab time is inappropriate and will not be accepted. Turn off all such electronic communication equipment before entering the lecture hall or laboratory.

THE USC CODE OF ACADEMIC RESPONSIBILITY WILL BE ENFORCED.  
( http://www.sc.edu/academicintegrity/honorcode.html )
INTELLECTUAL AND ACADEMIC HONESTY IS EXPECTED OF ALL CLASS MEMBERS.

Lab:  Lab attendance is mandatory.  
No late homework or laboratory exercises will be accepted.  
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.
APPROXIMATE** LECTURE SCHEDULE

1) Chapter 1. – Philosophy and Fundamental Concepts
2) Chapter 2. – Internal Structure of the Earth and Plate Tectonics
3) Chapter 3. – Minerals and Rocks
4) Chapter 4. – Ecology and Geology
5) Chapter 5. – Introduction to Natural Hazards
6) Chapter 6. – Earthquakes and Related Phenomena
7) Chapter 7. – Volcanic Activity
8) Chapter 8. – Rivers and Flooding
9) Chapter 9. – Slope Processes, Landslides and Subsidence
10) Chapter 10. – Coastal Processes
11) Chapter 11. – Impact of Extraterrestrial Objects
12) Chapter 12. – Water Resources
13) Chapter 13. – Water Pollution
14) Chapter 14. – Mineral Resources
15) Chapter 15. – Energy Resources
16) Chapter 16. – Soils and Environment
17) Chapter 17. – Waste as a Resource: Waste Management
18) Chapter 18. – Air Pollution
19) Chapter 19. – Global Climate Change

FINAL EXAM Wednesday May 1, 2013 @ 4:00 PM in this room

** Changes in scheduling may be required during the semester.

Important Dates:
Monday January 21, 2013 MLK Day No Class
Sun – Sun March 10 - 17 Spring Break No Class
Monday April 28, 2013 Last Lecture Class 😊