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 29208
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Lab Coordinator: Jessica Price (jprice@geol.sc.edu)

Teaching Assistants: Jessica Holm (jholm@geol.sc.edu): Sections 002, 007, 008
Matt Balint (mbalint@geol.sc.edu): Sections 003, 004, 006
Bin Fang (bfang@gmail.com): Sections 001, 005, 009

Laboratory Sections

<table>
<thead>
<tr>
<th>Section #</th>
<th>Day of Week</th>
<th>Time</th>
<th>Teaching Assistant</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Monday</td>
<td>10:50 – 12:50</td>
<td>Bin Fang</td>
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<tr>
<td>002</td>
<td></td>
<td>1:10 – 3:10</td>
<td>Jessica Holm</td>
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<tr>
<td>003</td>
<td></td>
<td>3:30 – 5:30</td>
<td>Matt Balint</td>
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<tr>
<td>004</td>
<td>Tuesday</td>
<td>11:40 – 1:40</td>
<td>Matt Balint</td>
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<tr>
<td>005</td>
<td></td>
<td>2:50 – 4:50</td>
<td>Bin Fang</td>
</tr>
<tr>
<td>006</td>
<td>Thursday</td>
<td>1:15 – 3:15</td>
<td>Matt Balint</td>
</tr>
<tr>
<td>007</td>
<td>Wednesday</td>
<td>8:30 – 10:30</td>
<td>Jessica Holm</td>
</tr>
<tr>
<td>008</td>
<td></td>
<td>3:30 – 5:30</td>
<td>Jessica Holm</td>
</tr>
<tr>
<td>009</td>
<td>Friday</td>
<td>9:40 – 11:40</td>
<td>Bin Fang</td>
</tr>
</tbody>
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Topics:
[1] Foundations of Environmental Geology
[2] Hazardous Earth Processes
[3] Human Interactions with the Environment
[5] Global change, land use and decision-making

Grading: Three in class 1-hour [1005-1105am] tests 02/05; 03/05; 04/07 (15% *3) 45%
Final 05/05, 9:30am 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
13 Introduction 15 Chapter 1 20 Chapter 2 22 Chapter 2
27 Chapter 3 29 Chapter 3
February
3 Review 5 Test 1 10 Chapter 4 12 Chapter 5
17 Chapter 6 19 Chapter 7 24 Chapter 8 26 Chapter 9
March
3 Review 5 Test 2 17 Chapter 10 19 Chapter 11
24 Chapter 12 26 Chapter 13 31 Chapter 14
April
2 Review 7 Test 3 9 Chapter 15 14 Chapter 16
16 Chapter 17 21 Chapter 18 23 Final Review
May
5 Final Exam 9:30am
Exams:
Exams are closed book and closed notes. The final will take 1 hour 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
12-16 No Laboratory 19-23 No Laboratory 26-30 Minerals
February
02-06 Rocks 09-13 Geological Time 16-20 Earthquakes
23-27 Topographical Maps
March
02-06 Weathering 09-13 Spring Break (No Laboratory) 16-20 Properties of Soils
23-27 Soil Infiltration
April
30-03 Groundwater 06-10 River Discharge Rates 13-17 Congaree River
20-24 Make-up lab if permitted

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.