COURSE SYLLBUS  
ENVRS1  
ENVIRONMENTAL SCIENCE  
Section 71614  
SPRING 2013

Instructor: Faraz Shahbazian, Ph.D.  
E-mail: Shahbazianf@gmail.com  
Location: EE213  
Class time: Tues. 6:00-9:00  
Office hours: Before and after class  
Text: Living in Environment, by G. Tyller Miller, Jr.

There is a web site for the class: randomprecisions.com. You need to go to this web site and print out what is needed for each class. You should follow the instructions in the syllabus.

CONTENTS

Week 1  
8/27  
Introduction, Hierarchy of science

Week 2  
9/3  
Chemistry: Matter, Subatomic particles, Molecules  
Names and formulas of binary compounds  
print out atoms and molecules  
print out chemical reactions  
print out organic chemistry  
Quiz 1

Week 3  
9/10  
Chemistry: Chemical equations  
Biochemistry: Macromolecules  
print out macromolecules  
Quiz 2

Week 4  
9/17  
Biology: Cells and organelles.  
Organ systems and their organs  
print out cells  
print out organ systems  
Quiz 3

Week 5  
9/24  
Concept of pH, Electromagnetic spectrum  
Environmental problems: Acid rain, Global warming, Ozone depletion  
Quiz 4
Week 6  
10/1  Flex day, no class

Week 7  Env. Problems, cont., Pollution, Population explosion, Destruction of forests  
10/8  Quiz 5
Week 8  Ecosystems, both terrestrial and aquatic  
10/15  Quiz 6
Week 9  What limits species to a particular ecosystem  
10/22  Quiz 7
Week 10  Law of limiting factors, Photosynthesis, Metabolism  
Print out photosynthesis and metabolism  
10/29  Quiz 8
Week 11  Population  
11/5  Quiz 9
Week 12  Disturbance and succession  
11/12  Quiz 10
Week 13  Genetics  
11/19  Quiz 11
Week 14  Geological time scale  
Plate techtonics  
Hazardous materials  
Print out hazardous materials  
Quiz 12
Week 15  Sources of energy  
12/3  Quiz 13
Week 16  A comprehensive final
**Quizzes:** Each week a quiz is given about the material covered the week before. You can bring half-a-page of notes, both sides, and use it to answer questions. Each quiz is worth 4 points, a total of 60 points.

**Comprehensive final:** There is a comprehensive final at the last session, week 18. It is worth 30 points. You can bring 2 pages of notes and use it for final. You have to take the final in order to pass the class.

**Term paper:** A paper is due on the last day of class on a topic about environmental science. You should consult with me when you decide about the topic. The paper is worth 10 points.

**Grading:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Quizzes (15X4)</td>
<td>50 points</td>
</tr>
<tr>
<td>Comp. final</td>
<td>30 points</td>
</tr>
<tr>
<td>Term paper</td>
<td>10 points</td>
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<tr>
<td>Film Summaries</td>
<td>10 points</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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</tbody>
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90 – 100 A
80 – 89 B
60 – 79 C
50 – 59 D
Below 50 F