ESCI 1301 (27493) Intro to Environmental Sciences

Instructor: Dr. Musa Hussein
Office: Geology Building 306B
Office hour: Via MS Team. Only by an appointment.
Phone: (915) 747-5424
Email: mjhussein@utep.edu (respond time 24-48 hours) or via class messages on Blackboard (respond time 24-48 hours)

Course Description
The main objective of environmental science class is to provide you with the basic term, science, concept, methodology to understand the interaction between the different spheres and human impact on them. The class will focus on the major environmental problems (over population, global warming, energy resources…etc.) to evaluate the relative risks and hazards associated with these problems, and to examine the possible solutions to reduce the impact of such events and problems. The course is divide into four block each block will discuss certain topics.

Learning Outcome
At the end of the course students should be able to:
• Describe the field and nature of environmental science, diagnose and illustrate major problems on global environment.
• Describe environmental policy and assess its societal context.
• Describe the scope of human population growth, and explain the challenges of feeding growing human population.
• Explain the goals of environmental health and identify environmental health hazards.
• Describe Earth’s internal structure and explain how plate tectonics shapes the surface, and list major types of geologic hazards and methods to mitigate or reduce their impact.
• Describe the fresh water, marine, and costal portions of the interconnected aquatic system.
• Describe the composition, structure and function of the Earth’s atmosphere. Identify greenhouse gasses and their influence on the climate.
• Describe the climate system and explain the factors that influence global climate.
• Identify the energy resources that we use. Outline the major sources of renewable energy,
• Manage our waste.


**Attendance:**
This is a 100% online class. The class is asynchronous which means you can do the assignments, exams, and quizzes on your best convenient time as long as you submit within the time limit I give you.
Attendance in the course is determined by participation in the learning activities of the course. Your participation in the course is important not only for your learning and success but also to create a community of learners. Participation is determined by reading/viewing all course materials to ensure understanding of assignment requirements.

**Grading:**
1. **Four exams (40 points each): 60% of your overall grade.**
   NO MAKE-UP EXAMS ARE GIVEN UNDER ANY CIRCUMSTANCES. The questions will relate to the textbook. Please do not miss the exam REOPEN IS NOT AN OPTION.

2. **Reading assignments (10 points each): 30% of your overall grade.**
   Every week you will complete two reading assignment. I except that you will provide full detailed answer for each question, short brief answers are not preferred and will not get the full grade, Beside the correct answer I will be looking for the way your express your answers. Late assignment will lose many points, assignment that is two weeks late will not be graded and will earn 0 points.

3. **Quizzes and class activity (5 points each): 10% of your overall grade.**
   Every week you will complete two short quiz. The quizzes serve to reinforce material. I assign them based on how you are doing with the material. If you miss more than two, you might lose up to a letter grade.

**Your final lecture grade is based on the total of exams and quizzes**

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<tr>
<th>Grade</th>
<th>Percentage</th>
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<tr>
<td>A</td>
<td>90-100</td>
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<td>B</td>
<td>80-89.9</td>
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<td>C</td>
<td>70-79.9</td>
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<td>D</td>
<td>60-69.9</td>
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<tr>
<td>F</td>
<td>less than 60</td>
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**Students with Disabilities**
If you think you may have a disability or if you are experiencing learning difficulties, please contact the Center for Accommodations and Support Services (CASS) Monday through Friday, 8:00 a.m.-5:00 p.m. Phone: (915) 747-5148 Union Building East Room 106 cass@utep.edu. They will provide any necessary accommodations. You should also meet with me in order to facilitate your needs. You are expected to provide documentation of your disability in order to make special arrangements in this class.
**Academic Misconduct**
Academic dishonesty will be not tolerated in this class (please refer to the student conduct code handbook for details regarding university policy and definitions).

Dishonesty includes, but is not limited to, plagiarism on term papers, unauthorized notes brought into an exam; copying answers from another student or letting another student copy your answers. The penalty for the first offense will be a grade of zero points on the exam or assignment. Penalty for the second offense will be an F for the course.

When someone in an audience is talking, or even whispering, it can be very distracting to those nearby. Since this type of behavior is quite rude and impedes the progress of other students, it will not be tolerated and anyone doing so will be asked to leave the classroom.

*Your continued enrollment in this course implies that you have read and understand this syllabus, and that you agree to abide by the conditions herein.*

**Helpful Hints:**
- Review material regularly - multiple short study sessions over a period of weeks are more effective than a single "cram" the night before an exam. Form a study group online. Each member should study material on their own before meeting with the group for discussion and comparison.
- Write out definitions and answers to essay questions; use a computer or something else - don't just passively read your notes!
- Ask questions when you have any
- Combine class notes, textbook, web materials, and old exams when studying – each provides a different perspective.
- Pay attention to the news and current events to see how they related to Geology.
- Do the homework assignments. They will help your grade.
- Read your text in SMALL doses; don't plan on one massive reading session the night before the exam.
- Be sure to look at the pictures and diagrams in the text.

**Technology Requirements**
Course content is delivered via the Internet through the Blackboard learning management system. Ensure your UTEP e-mail account is working and that you have access to the Web and a stable web browser. Google Chrome and Mozilla Firefox are the best browsers for Blackboard; other browsers may cause complications. When having technical difficulties, update your browser, clear your cache, or try switching to another browser.

You will need to have access to a computer/laptop, scanner, a webcam, and a microphone. You will need to download or update the following software: Microsoft Office, Adobe Acrobat Reader, Windows Media Player, QuickTime, and Java. Check that your computer hardware and software are up-to-date and able to access all parts of the course.

If you do not have a word-processing software, you can download Word and other Microsoft Office programs (including Excel, PowerPoint, Outlook and more) for free via UTEP’s Microsoft Office 365 and follow the instructions.
IMPORTANT: If you encounter technical difficulties beyond your scope of troubleshooting, please contact the UTEP Help Desk as they are trained specifically in assisting with technological needs of students. Please do not contact me for this type of assistance. The Help Desk is much better equipped than I am to assist you!

COURSE OUTLINE: this schedule is subject to change.

<table>
<thead>
<tr>
<th>Block Number</th>
<th>Topic</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Block 1</td>
<td>Ch. 1- Science and Sustainability: An introduction to Environmental Science</td>
<td>03/16/2023</td>
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<td>Ch. 2- Environmental Systems: Matter, Energy and Ecosystems</td>
<td>03/16/2023</td>
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<td>Ch. 5- Economics, Policy, and Sustainable Developments</td>
<td>03/23/2023</td>
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<td>Ch. 6- Human Population</td>
<td>03/23/2023</td>
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**EXAM 1 (Friday 03/24/2023)**

| Block 2      | Ch. 7- Soil, Agriculture, and Future of Food.                       | 03/30/2023     |
|              | Ch. 8- Biodiversity and Conservation Biology                        | 03/30/2023     |
|              | Ch. 10- Environmental Health and Toxicology                         | 04/06/2023     |

**EXAM 2 (Friday 04/07/2023)**

| Block 3      | Ch. 11- Geology, Minerals and Mining                                | 04/06/2023     |
|              | Ch. 12- Fresh Water, Ocean and Coast                               | 04/13/2023     |
|              | Ch. 13- Atmospheric Science, Air Quality, and Pollution Control    | 04/13/2023     |

**EXAM 3 (Friday 04/21/2023)**

| Block 4      | Ch. 14- Global Climate Change                                      | 04/20/2023     |
|              | Ch. 15- Nonrenewable Energy Sources, Their impact, and Energy Conservation | 04/20/2023     |
|              | Ch. 16- Renewable Energy Alternatives                              | 04/27/2023     |
|              | Ch. 17- Managing Our Waste                                         | 04/27/2023     |

**EXAM 4 (Friday 04/28/2023)**

**Important Academic Calendar Dates:**
- Classes begin: March 13
- Census day: March 17
- Course drop: April 20
- Final Exams: April 28