INSTRUCTOR: Charles Carpenter, B.S., M.S.  
Credit Hours: 3  
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FOUNDATIONAL AREA OF KNOWLEDGE: GEO 101 Environmental Geology fulfills the requirement for a Foundational Area of Knowledge in Scientific Perspectives. Any course that fulfills that requirement will assure that students gain a greater understanding of scientific thinking and applications using core ideas in courses that include laboratory or field experience. Students will consider the complexities of scientific methodologies in one or more disciplines of the natural sciences, the scientific context of issues they will confront as informed citizens, and the scientific impact on the global community. Students will work to:

1. Employ methods of science for inquiry in a scientific discipline
2. Develop their scientific literacy and ability to critically evaluate scientific information
3. Consider the ethical and social implication of scientific study and use of scientific findings.

GEO 101 will seek to accomplish all of these outcomes, with the greatest emphasis on Learning Outcome #2.

REQUIRED TEXT:  
Publisher: Prentice Hall  
ISBN: 0321727517  
Supplemental materials will be supplied by the instructor as required. You will need a 3-ring notebook (1½ inch rings minimum), and loose-leaf paper for use during class.

COURSE DESCRIPTION: An introduction to the everyday geological problems of our world community. Some topics covered include: human population and its growth; natural resources; pollution of the environment; waste disposal; energy resources and their exploitation; environmental health hazards including earthquakes, volcanoes, landslides, flooding, coastal processes; and global climate change.

LEARNING OUTCOMES: In addition to FAK learning outcomes, learning outcomes specific to this course are:

* Students will gain an understanding of the physical processes that operate in and on the earth.
* Students will examine the interactions between on-going geological processes and humans.
* Students will evaluate the various aspects of global warming and their impact on mankind.
* Students will learn the basics about environmental issues so they may make informed decisions.
LEARNING STRATEGIES: This course will use lecture, video, discussion, activities and exercises with simulations using the Hazard City program. Attending classes is imperative, as the activities and exercises will be intertwined with discussion and work from the book. Because of the blend of material, missing class will put you at a disadvantage. Being able to work with your partner(s) is a must.

ASSESSMENT OF STUDENT PERFORMANCE AND COURSE REQUIREMENTS:

1. Class Participation/Attendance (each night of class = 100 pts.). Your grade for this component is determined by the number of times that you are present in class and your contributions during class work and discussion. If emergencies arise, and you contact the instructor PRIOR to class, that will be factored in to the total points. No notification will result in a loss of 100 points for that night. Late notification will result in a deduction of 25 points for that evening. The only exception would be an extreme medical emergency.

2. Project/Paper (worth 100 points). This work will deal with environmental geology issues in our own state, our region of the country, or the United States as a whole. Topics may be based on ideas presented in the book or ideas that you develop based on personal experience or interest. If you are stumped, visit with the instructor for an idea.

3. Team Tests (worth 100 points each). You will work on these tests with a partner or partner(s) to answer essay questions based on some type of exercise, activity, environmental problem, or content presented in the chapters.

4. Individual Tests (worth 100 points each). These tests will be completed individually and will be objective in nature.

COURSE POLICIES:

1. Grading Policies--The following grading scale will be used:

   90-100 = A       80-89 = B       70-79 = C       60-69 = D       BELOW 60 = F

2. Late papers/assignments--all assignments are due at the time the instructor has scheduled. All work needs to be done by the end of the class eight week session unless other arrangements are made.

3. Attendance--A portion of your grade will be based on attendance. If you must miss a class, as a matter of courtesy, let the instructor know. See above for further information. You will be expected to complete all work, gather notes, and complete all course work.

4. Academic Integrity Policy--

   The Doane College Academic Integrity Policy will be adhered to in this class. All projects and tests will represent your own work or the work of the group. Any use of others’ ideas and words without proper citation of sources is plagiarism and will result in penalties to be determined by the instructor and/or the dean of undergraduate studies.