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CH217 HOME

217s Environmental Chemistry Application of chemical principles to the environment with an emphasis on the interaction among chemical, physical, geological, and biological processes. Current topics such as acid deposition, global warming, atmospheric ozone loss, and the fate and toxicity of heavy metals will be discussed in the context of natural environmental processes.

Prerequisite: Chemistry 142. Three credit hours. KING

Chemistry 217: Syllabus

SPRING 2010

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Texts:

Manahan, Stanley, Environmental Chemistry, 9th, 2010.

Reference:

Broecker, W. S., How to Build a Habitable Planet, ELDGO Press, 1985
Bunce, Nigel J., Environmental Chemistry 2nd. Ed., Wuerz Publishing, 1994

Howard. Aquatic Environmental Chemistry. Oxford Chemistry Primers. 1998

vanLoon and Duffy, Environmental Chemistry: a global perspective, Oxford, 2005
Spiro and Stigliani. Chemistry of the Environment. 2nd edition 2003

Grading:

Homework 25%
Hour Exams 25%
Class Participation 25%
Final 25%

Approximate Lecture and Exam Schedule

| Date | Reading | Topic |
|------|----------------|-----------------------|
| 2/1 | Manahan 1, 19 | Energy Flow |
| 2/8 | Manahan 15 | Geosphere |
| 2/15 | Manahan 9,10 | Atmosphere |
| 3/1 | Manahan 13, 14 | climate |
| 3/8 | Manahan | Exam I 3/17 |
| 3/29 | Manahan 11, 12 | Acid Rain and Smog |
| 4/5 | Manahan 3 | Troposphere and Water |

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|------|--------------|---------------------------|
| 4/12 | Manahan 4, 5 | Geochemistry |
| 4/19 | Manahan 6, 7 | Geochemistry II |
| 4/26 | Manahan 8 | Redox and Water Treatment |
| 5/3 | | Exam II due |
| | exam 13 | |

Homework: [Homework](#) will be assigned regularly throughout the semester. All homework will be graded.

Attendance and Exam Policy: We will follow the exam and attendance policy posted on the [Department of Chemistry Web page](#).