

## **Chemistry of the Aqueous Environment**

Chemistry 371

Section: D100

Term: 2000 Spring

Instructor: Sessional Instructor, Dr. Luis Sojo.

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Discussion Topics: General Course Description:

An introduction to chemical processes in the aqueous environment. Quantitative treatment of the variables determining the composition of natural systems. Chemistry of aqueous toxic agents, wastewater treatment, and related matters.

3 lecture hours/week; 0 tutorial hour/week; 0 lab hours.

Topics:

4 Lectures: Survey of Environmental Geochemistry, Ch.1-4.

2 Lectures: Thermodynamics Review, Ch. 5-6.

5 Lectures: Acid-base chemistry of the aquatic environment. Ch. 7-8.

3 Lectures: Solids, colloids and complexes. Ch. 9-11.

4 Lectures: Redox chemistry of the aquatic environment. Ch.12.

2 Lectures: Interphase Transfer. Ch. 13-14.

2 Lectures: Geochemical element cycles. Ch.15.

4 Lectures: Water supply, waste water treatment, water pollution. Ch.16-18.

4 Lectures: Toxic substances in environment, Industrial pollution. Ch.19-23.

Grading: 15% Problem Assignments

## Chemistry of the Aqueous Environment

20% Midterm Exam

40% Final Exam

25% Term Paper

Required Texts:

Recommended Texts: Nigel Bunce, "Environmental Chemistry", Paperback. Ed. #2 1994. Wuerz Publishing Ltd.

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite: CHEM 281 (or 150) and CHEM 360(or 261).

Notes: None

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