

Analytical Environmental Chemistry

Chemistry 317

Section: D100

Term: 1999 Spring

Instructor: Dr. L. K. Peterson

Office: C-8070

Discussion Topics: General Course Description:

Principles and applications of the methodologies of analytical chemistry employed in the determination of substances in air, water, and soil, with particular emphasis upon sampling and sample preparation.

0 lecture hours/week; 0 tutorial hour/week; 4 lab hours.

Topics:

The Atmosphere: Origins and effects of undesirable components (particulates; "smog" gases; organic pollutants).

Aquatic Environments: Inorganic and organic components of freshwaters and marine waters.

Soil Environments: Origins and effects of undesirable inorganic and organic components.

Lab Assignments:

A selection from the following list: Determination of atmospheric particulates; Determination of "smog" gases and other gaseous pollutants; Determination of inorganics and organics in soils; Determination of inorganics and organics in water samples.

Grading: 50% Mid-term Exam; 50% Final Exam.

Required Texts: D.A. Skoog & J.J. Leary. "Principles of Instrumental Analysis", 5th Edition. 1998. Holt Rinehart.

Chem 317 lab manual will be distributed in the first week.

Recommended Texts: Nigel Bunce. "Environmental Chemistry" Paperback. Wuertz Publishing Ltd.

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite: CHEM 316 and 371. CHEM 372 should be taken concurrently.

Notes: None

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