

## **Analytical Environmental Chemistry**

Chemistry 317

Section: D100

Term: 2001 Spring

Instructor: Dr. G. Agnes.

Office: SSB7102.

Discussion Topics: Description/Topics:

The course consists of an environmental project proposed and conducted entirely by each student in the course. The student will apply the sampling, sample preparation, instrumentation, and data analysis learned from previous courses in the process of completing their project. An important aspect of this project will be method development/modification at all stages of the project, with the possibility of warranting a return to any one or more of the previously accomplished stages of the project. This is the feed back mechanism that is typical of fine tuning a method or technique prior to making any concluding remarks.

The function of the course instructor is to facilitate, and assist where necessary, the development of the student in attaining the goals set forth and defined by their proposed project.

There are no lectures in this course, but there will be numerous informal discussions with the class in the laboratory concerning the goals and objectives of the course.

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

Grading: The student will be graded on their performance, as documented in their laboratory notebook and demonstrated in their oral presentations to the class. There will be several oral presentations per student. For example, each student will prepare a short oral presentation describing their project at the beginning of the semester, followed by a final presentation of their project.

Project description (written and oral) 20%

Development of the work plan (written) 10%

Results-reproducibility and accuracy (written) 30%

Final Report (written and oral) 40%

## **Analytical Environmental Chemistry**

Required Texts: No required text.

Recommended Texts: Skoog, Holler and Nieman, "Principles of Instrumental Analysis", 5th Edition, 1998. Publishers, Holt Rinehart.

Daniel C. Harris, "Quantitative Chemical Analysis", 5th Edition, 1999. Publishers, Freeman & Company.

Materials/Supplies: Hardcover Laboratory Notebook.

Prerequisite/Corequisite: Prerequisite: CHEM 316.

Notes: None

This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.