

CHEMISTRY 302 COURSE INFORMATION - JANUARY TERM 2006

ENVIRONMENTAL CHEMISTRY I

INTRODUCTION

Welcome to Chemistry 302. This is a course in Environmental Chemistry at the third year level. It assumes the required background of first year chemistry. It is intended for students interested in chemistry in the context of the environment.

This course is revised each time it is offered. Your constructive criticisms and suggestions are welcomed.

TEXTBOOKS

There is one textbook required for this course:

Environmental Chemistry, Second Edition by Nigel Bunce.

There are a number of textbooks on various aspects of environmental chemistry available through the library. Material not in the textbook may be assigned. You will find it useful to have access to texts for first year chemistry and for physical chemistry. Recommended supplementary reading includes:

Environmental Chemistry by Colin Baird

Atmospheric Chemistry by Barbara J. Finlayson-Pitts and James N. Pitts Jr.

Chemistry of the Upper and Lower Atmosphere by Barbara J. Finlayson-Pitts and James N. Pitts Jr.

Environmental Chemistry, Fifth Edition, by Stanley Manahan

Fundamentals of Environmental Chemistry, by Stanley Manahan

Environmental Organic Chemistry by Renè P. Schwarzenbach, Philip M. Gschwend, and Dieter M. Imboden

Atmospheric Chemistry and Global Change by Guy P. Brasseur, John J. Orlando, and Geoffrey S. Tyndall

LECTURES AND TUTORIALS

There is one lecture section for this course held Monday, Wednesday, and Friday from 10:30-11:20 in room 5-183. The tutorial on Friday 11:30-12:20 in 5-172.

The lecturer is:

Professor Margot E. Mandy

Office: 8-412 (New lab building)

Telephone: 960-6676

E-mail: mandy@unbc.ca

I am available for consultation by mutual convenience or during office hours. My schedule is posted on my door.

If there are students in this course who, because of a disability, may have a need for special academic accommodations, please come and discuss this with me, or contact Disability Services located in room 7-103.

LABORATORY

The laboratory time will be used to place the lecture material in the context of particular environmental issues. You must pass the laboratory in order to pass the course. Over the semester there will be a mixture of wet and computer-based laboratories. If you think that you will miss a laboratory, you must contact the Professor in advance to schedule a makeup. If more than one laboratory period is missed without consent of the professor, you will automatically fail the course. The first lab will be held 6 January 2006. Lab periods will be in Rooms 8-420 and 8-421 in the lab building or in Room 8-459 (Computer Lab). For the laboratory period on 13 January 2006, you are required to have a hard-covered lab book, a lab coat, safety glasses, and a valid Student Safety Orientation Card. If you do not have a Student Safety Orientation card, you must complete the web-based test to obtain one.

Using Excel in Chem 302

The Excel spreadsheet program will be used extensively in this course. Instruction to the necessary level will be provided. It is your responsibility to ensure your files are virus free and to back up your files to the appropriate drives and devices. For the “spreadsheet labs”, sample calculations must be shown handwritten in the lab report. For the spreadsheet labs, your spreadsheet file must be submitted electronically as an email attachment to mandy@unbc.ca. The title of the email must indicate the course and the lab number. The body of the email must state clearly your name, your student number, the name of your lab partner. The names of the worksheets in your spreadsheet file must correspond to those given in your lab report.

If your attachment fails virus checking or your file format is unreadable, you will lose the marks associated with the spreadsheet file for that lab report. Only your first email submission for each lab is considered. Subsequent submissions will not be considered.

EMAIL LISTS

There is an email list for this course consisting of the addresses provided by students. It is assumed that students read email at least once every 24 hours and have ensured that the email address provided can receive mail sent to lists.

This course list is in addition the two lists that the UNBC Chemistry program maintains for announcements and notices: chemistrylist@unbc.ca or biochemistry@unbc.ca. To subscribe to either of these lists, send an email to majordomo@unbc.ca, leaving the subject line blank and having as the body of the message “subscribe chemistrylist” or “subscribe biochemistry” on the first line followed by “END” on the second line.

TERM TESTS AND PROBLEM SETS

There will be several problem sets and two term tests in this course.

FINAL EXAMINATION

There will be a final examination during the exam period, April 07 - 22, 2006. Any student who has due cause to write the examination on a date other than the scheduled date must notify the professor within one week of the examination schedule becoming available.

CALCULATORS AND ELECTRONIC DEVICES IN TESTS AND EXAMINATIONS

The university's regulations and policies restrict devices permitted during an examination to those for which the instructor has given written permission. A student may use an electronic calculator during tests and examination in this course, providing it is incapable of communicating with other electronic devices. No multipurpose electronic devices are permitted. No other electronic devices are permitted.

MARKS

The mark in this course will be assigned as follows:

Problem Sets	25%
Two Term Tests	10% each
Laboratory	25%
Final Exam	30%
Total	100%

Penalties for Academic Offenses will be in accordance with UNBC Regulations and Policies. See pages 60-61 of the 2005-2006 Calendar.