

**CHEMISTRY IN EVERYDAY LIFE**

Instructor: Kay Calvin  
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Course Website: <http://instruct.uwo.ca/chemistry/021/>

**Class Hours**

Tuesdays and Wednesdays: 3:00 - 4:30 pm in B & GS Room 22

**Text and Lecture Notes**

The course is loosely based on the text book **Chemistry in Your Life** (Colin Baird and Wendy Gloffke), as well as some other texts and web resources.

All the lecture material necessary is presented in the Lecture Notes for this course which must be purchased in the Bookstore.

This package has a green cover and sells for \$ 72.70.

It is expected that you will **always** bring the appropriate Lecture Notes to class.

The text is available as a reference and you may find it useful as such but it is not required.

**Reference Books**

These books will be available at the Heavy Demand Desk in the Taylor Library.

"Chemistry in Your Life", Colin Baird and Wendy Gloffke, ISBN 0-7167-3902-X

"Chemistry in Context", 4<sup>rd</sup> Edition; Stanitski et al, ISBN 0-697-36024-5

"World of Chemistry Essentials", 2<sup>nd</sup> Edition; Joesten and Wood, ISBN 0-03-005888-0

"The Extraordinary Chemistry of Ordinary Things". 4<sup>th</sup> Edition; Carl H. Snyder  
ISBN 0-471-41575-8

**Course Website**

<http://instruct.uwo.ca/chemistry/021/>

The course website begins with a notice board for information regarding tests, review days or other "special events".

Assignments will be posted here, as will the solutions and previous years' mid terms.

Links to websites containing information relevant to the topics covered in class will be posted here as well.

## Evaluation

There will be three 90 minute in-class term tests and a test in the April exam period. Each test is worth 20 % of the final mark in the course.

Term Test Dates (tentative): Wednesday, October 20, 2004  
Wednesday, December 1, 2004  
Wednesday, February 16, 2005

Tests and exams will be partly multiple choice and partly short answer. **No make-up tests will be available.** If a test is missed for medical or compassionate reasons, you must submit appropriate documentation to your Dean's office. Your final grade will be determined by re-weighting the other test and final exam.

The tests in this course are not cumulative, but some basic knowledge actually tested on earlier tests may be necessary to succeed on the later tests.

Coverage for tests and exams will be announced in class and posted on the course web site.

There will also be ten hand in assignments worth 1 % each. Reasonable attempts will be awarded the mark. Late or incomplete assignments will be awarded 0.5 marks each. Photocopied or word for word copies of another student's assignments will be given marks of zero.

The point of the assignments is to give you practice in answering the types of problems that will occur on the tests and exams.

If you work out the problems with the help of friends, write out the final solutions by yourself.

There are also a few practical periods in the laboratory planned. These sessions are mandatory and attendance will be taken. Your participation in these sessions will count for 5% of your total mark.

The remaining 5 % of your mark will be determined from a web based unit of study which will be done in the Winter term.

## **The Aim of the Course**

The main aim of this course is to increase the knowledge and understanding by non science students in those aspects of chemistry that are most relevant to their lives.

The approach used is to introduce the necessary background chemistry gradually during the year as various applications are being discussed. No previous background in chemistry or science is assumed.

In all topics, we will start with the basic chemistry and include applications to the real world as we go along.

## **Code of Conduct**

All classes will be managed so that they do not run beyond their allotted time.

We shall at all times strive to promote a respectful learning environment, which does not disrupt anyone's ability to learn and is supportive of each student's views and feelings.

You can expect me to come prepared for, and attend, all classes regularly and punctually.

I, in turn, expect the same from you.

Disturbing behaviors, including talking during class, cell phones ringing and any other activities which may impede the ability of you or other students to learn are unacceptable.

Students who persist in engaging in such behaviours will be asked to leave the class.

## **Cheating and Plagiarism**

Senate regulations require that we describe the University's position on these matters.

**Plagiarism:** Students must write their essays and assignments in their own words.

Whenever students take an idea or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the Western Academic Calendar.)

**Cheating:** Tests and examinations in Chemistry 021 are partially multiple choice in nature. The multiple choice section will be marked by computer. The marking software is always employed to check for unusual coincidences in answer patterns that may indicate cheating, and such occurrences are followed up.

## **Topics to be Studied**

About Matter

Physical and Chemical Change

Atomic Structure

Hydrocarbons and Fossil Fuels

Organic Compounds Containing Oxygen and Nitrogen

Plastics and Polymers

Carbohydrates, Fats & Oils and Proteins

Food and Energy

Vitamins, Minerals and Food Additives

Drugs and Toxicity

The Chemistry of Heredity

Salts, Acids and Bases

Oxidation and Reduction

Our Drinking Water

Air Pollution and Acid Rain

The Ozone Layer

Global Warming

## STUDENT CONTACT INFORMATION

From time to time I will have extra information to share with you by e-mail.

So that I may easily contact you, please fill in your name, student number and your e-mail address below. **Please print legibly!!**

Hand in this page as you leave.

Thanks,

*Kay Calvin*

NAME: \_\_\_\_\_

STUDENT NUMBER: \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_