

CHEM1060 DE - Fall 2015

General Information

Course Title: Introductory Chemistry

Course Description:

This course stresses fundamental principles of chemistry and is designed for students without Grade 12 or 4U Chemistry or equivalent. Topics include: atomic theory, the periodic table, stoichiometry, properties of gases and liquids, acid-base concepts and chemical equilibria. This course is intended only for students who require the equivalent of Grade 12 or 4U Chemistry in order to proceed to CHEM*1040.

Credit Weight: 0.50

Academic Department (or campus): Chemistry

Campus: Guelph

Semester Offering: Fall 2015

Class Schedule and Location: Distance Education

Instructor Information

Instructor Name: Dr. Kim Bolton

Instructor Email: kbolton@uoguelph.ca

Office location and office hours: Summerlee Science Complex, room 2446

I will not have regular office hours. If you need to see me, make an appointment via email.

Course Content

Specific Learning Outcomes:

Specific Learning Outcomes for each unit of the course can be found on the course website (on Courselink).

Lecture Content:

Unit 1: Measurement and Calculations

Unit 2: Elements, Atoms, Ions and Nomenclature

Unit 3: Chemical Reactions and Reactions in Aqueous Solution

Unit 4: Stoichiometry: The Mole, Formulas and Equations for Chemical Reactions

Unit 5: Atomic Theory and Chemical Bonding
 Unit 6: Gases: $PV=nRT$, Stoichiometry and the Kinetic Molecular Theory
 Unit 7: Solutions: Molarity, Dilution and Reactions
 Unit 8: Acids and Bases
 Unit 9: Equilibrium
 Unit 10: Redox Reactions and Electrochemistry
 Unit 11: Introduction to Organic Chemistry

Labs:

There are no labs.

Course Assignments and Tests:

Assignment or Test	Due Date	Grading Scheme #1 Contribution to Final Mark (%)	Grading Scheme #2 Contribution to Final Mark (%)
Online Homework (Optional)		10	0
Online Mini-Quizzes (top 5 quiz grades are used to calculate final quiz grade): Quiz 1 Quiz 2 Quiz 3 Quiz 4 Quiz 5 Quiz 6 Quiz 7 Quiz 8	Oct 4, 2015 Oct 11, 2015 Oct 18, 2015 Nov 1, 2015 Nov 8, 2015 Nov 15, 2015 Nov 29, 2015 Dec 4, 2015	20	20
Graded Calculations: Assignment 1 Assignment 2 Assignment 3 Assignment 4	Oct 18, 2015 Nov 8, 2015 Nov 15, 2015 Nov 29, 2015	10	10
Online Midterm Examination	Nov 1, 2015	20	25
Final Examination	Dec 9, 2015 2:30 to 4:30 PM	40	45

Final examination date and time: Wednesday December 9, 2015, 2:30 to 4:30 PM

Final exam weighting: 40% (Scheme #1); 45% (Scheme #2)

Course Resources

Required Texts:

Introductory Chemistry: A Foundation, Hybrid Edition
Edition: 8th
Authors: Stephen S. Zumdahl and Donald J. DeCoste
Published by: Houghton Mifflin Company 2015

Course Policies

Grading Policies:

Online Homework (Optional):

Information about the Online Homework is provided on the Courselink website.

Online Quizzes:

There are 8 (eight) Online Quizzes delivered on the Courselink website. The questions on these quizzes are multiple choices and are on the assigned material from the text chapters. You are only allowed one attempt at each quiz. You will be allowed 60 minutes to complete each quiz. Each quiz will be available for approximately 2 weeks (consult the website for dates). Quizzes can only be accessed during these designated times, and only medical reasons for missing a test will be accepted. If a test is not attempted, a grade of zero will be assigned.

Graded Calculations:

There are 4 Graded Calculation Assignments and completed assignments should be submitted electronically via Dropbox on the Courselink website. Submissions will be graded using the following criteria:

- 2.5 marks – submitted by the due date and containing correct solutions that show ALL of your work.
- < 2.5 marks – submitted by the due date and containing some errors (showing ALL of your work).
- 0 marks – not submitted by the due date

Online Midterm Examination:

The online midterm examination will be similar to the quizzes, but it will cover more material and it will consist of 40 questions. You are only allowed one attempt at the midterm. You will be allowed 120 minutes to complete the midterm. The midterm can only be accessed during the designated availability period (for completion dates, consult the website). If the midterm is not attempted, a grade of zero will be assigned.

Final Examination:

In keeping with the university's Undergraduate Degree Regulations and Procedures the final examination will be 2 hours long and in sit-down format. It will cover material from the entire course.

Policy on Late Assignments: All late assignments will receive a 10% deduction for each day that they are late. See Dr. Bolton if you wish to request an extension.

Copies of out-of-class assignments: Keep paper and/or other reliable electronic back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

Course Policy on Group Work: You are not authorized to work together on any part of this course. Doing so would constitute academic misconduct.

University Policies

Academic Consideration:

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with your name, id#, and e-mail contact. See the academic calendar for information on regulations and procedures for Academic Consideration: [Academic Consideration, Appeals and Petitions](#)

Academic Misconduct:

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community, faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring.

University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar:

[Academic Misconduct Policy](#)

Accessibility:

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact Student Accessibility Services as soon as possible.

For more information, contact SAS see the website: [Student Accessibility Services Website](#)

Course Evaluation Information:

Please refer to the **Course and Instructor Evaluation Website**

Drop date:

The last date to drop one-semester courses, without academic penalty, is November 6, 2015.

For regulations and procedures for Dropping Courses, see the Academic Calendar:

[Current Undergraduate Calendar](#)