

- Lecturer for this course is Prof. Monteiro (Mario).
- You can contact Prof. Monteiro by telephone at extension 53447.
- Reply to e-mail ([monteiro@uoguelph.ca](mailto:monteiro@uoguelph.ca)) is limited (i.e. grades cannot be discussed by e-mail).
- In this course we will discuss material encompassing the fields of thermochemistry (Chapter 6), thermodynamics (Chapters 18), Bond Enthalpies (Chapter 9), Energetics of ionic compounds (Chapter 9), Electrochemistry (Chapter 19), Reaction Rates (Chapter 13), and Radioactive decay (Chapter 20).
- A simple guideline to class notes will be posted on a weekly basis and can be viewed at <http://www.uoguelph.ca/~monteiro/> or at <https://courselink.uoguelph.ca/>.
- Your grade will be calculated as follows:

Midterm Examination	35%	
Wet Labs	15%	
Online Dry Labs	5%	(dry labs are being introduced for the first time in <a href="https://courselink.uoguelph.ca/">https://courselink.uoguelph.ca/</a> 1050 – <u>All students must do the online dry labs</u> – including those who are exempted from the wet labs)
Final Examination	45%	
- If less than 70% of the laboratory work is completed – no grade will be assigned.
- Dates and locations of midterm and final exams will be announced in class.
- Final exam is cumulative.
- No make-up midterm will be given. If you miss the midterm exam, you must bring proper documentation to Prof. Monteiro directly. If your absence during the midterm is justified – the percent value of the midterm will be added to the final examination.
- In the case of a missed final examination you should consult the Undergraduate Calendar for the appropriate course of action.
- A grade of zero will be assigned for any missed laboratory, quiz or examination except only for valid medical or compassionate reasons.
- Exams will be closed book. No written or printed materials of any kind are permitted. Electronic calculators may be used on all quizzes and examinations.
- Laboratory Reports: Hand in exactly one week later, before 4:30 pm, not a day early, in the Grey Box numbered 2108, near MAN 128. Wet Lab Exemptions: Deadline Tues. Sept 15, go to [www.chemistry.uoguelph.ca/labexemption](http://www.chemistry.uoguelph.ca/labexemption).
- The exams may consist of only one of the following form of questions or a combination of the different forms: multiple choice; fill-in-the-blanks; short answer questions; long-answer questions.
- Required Materials: Text Book: “General Chemistry”, 9<sup>th</sup> ed. Ebbing and Gammon, Houghton Mifflin Co. 2009; and “Students Solutions Manual General Chemistry” Bookin, Ebbing and Gammon, Houghton Mifflin Co. 2009; These items may be bought in the University Bookstore. Laboratory Manual for CHEM\* 1050 and safety goggles (not safety glasses) - Purchased in the Department of Chemistry, SCIE 2101. A lab coat is also required. Electronic calculator with ln, exp or e<sup>x</sup>, log<sub>10</sub> and 10<sup>x</sup> functions. Calculators or notebook computers capable of storing text information are not allowed in the examinations.

●Homework

Study the class notes and do all questions belonging to the PRACTICE PROBLEMS and GENERAL PROBLEMS sections of Chapters 6, 13, 18 and 19.

●Office Hours: Monday, Wednesday and Friday, 11 AM to 12 noon, room 333 MacNaughton Building.

●First laboratory: You must attend your first lab in order to receive mandatory safety training and all the required information from your TA. If you do not attend the lab in week 1, you may lose your place. As proof that you are registered in the lab, you must bring a computer print-out (dated Sept. 1 or later) of "My Class Schedule" from WebAdvisor to your first lab.

Fall 2009 Lab Schedule CHEM-1050

	<u>Group A</u> ODD lab section numbers	Quiz	<u>Group B</u> EVEN lab section numbers	Quiz
Sept. 14 - 18	Check-In, Safety ~ Legal requirement Arrive at regular starting time	No	Check-In, Safety ~ Legal requirement Arrive 90 minutes after regular starting time	No
Sept. 21 - 25	Expt. 1 Enthalpy of Formation Quiz on WHMIS and Expt. 1	Yes	<i>ONLINE Computer lab 1*</i> <i>Bomb Calorimeter</i>	
Sept. 28 - Oct. 2	<i>ONLINE Computer lab 1*</i> <i>Bomb Calorimeter</i>		Expt. 1 Enthalpy of Formation Quiz on WHMIS and Expt. 1	Yes
Oct. 5 - 9	Expt. 2 Equilibrium Constant	Yes	<i>ONLINE Computer lab 2**</i> $\Delta G^\circ$ , $\Delta H^\circ$ , $\Delta S^\circ$	
Oct. 13 - 16	NO LABS. Independent Study.		NO LABS. Independent Study.	
Oct. 19 - 23	<i>ONLINE Computer lab 2**</i> $\Delta G^\circ$ , $\Delta H^\circ$ , $\Delta S^\circ$		Expt. 2 Equilibrium Constant	Yes
Oct. 26 - 30	<i>ONLINE Computer lab 3</i> <i>Electrolysis***</i>		Expt. 5 Voltaic Cells	Yes
Nov. 2 - 6	Expt. 5 Voltaic Cells	Yes	<i>ONLINE Computer lab 3</i> <i>Electrolysis***</i>	
Nov. 9 - 13	NO LABS. Independent Study.		Expt. 7 Chemical Kinetics Report due in three days	No
Nov. 16 - 20	Expt. 7 Chemical Kinetics Report due in three days	No	NO LABS. Independent Study.	
Nov. 23 - 27	Clean up and check grades. Arrive at regular starting time	No	Clean up and check grades. Arrive 90 minutes after regular starting time	No
Nov. 30 - Dec. 3	NO LABS		No LABS	

\*Results for Computer lab 1 must be submitted by both groups by Sunday Oct. 11, 23:59.

\*\* Results for Computer lab 2 must be submitted by both groups by Sunday Oct. 25, 23:59.

\*\*\* Results for Computer lab 3 must be submitted by both groups by Sunday Nov. 15, 23:59.