**CHEMISTRY 1050** **STUDENT COURSE INFORMATION** (3 pages) **FALL 2012**

●Lecturer for this course is Prof. Monteiro (monteiro@uoguelph.ca); you can contact me by telephone at extension 53447 or visit me in room 230, 333 or 346 MacNaughton.

●In this course we will discuss material encompassing the fields of thermochemistry, thermodynamics, Bond Enthalpies, Energetics of ionic compounds, Electrochemistry, Reaction Rates, and Radioactive decay. You can use the 9th or 10th edition of Ebbing and Gammon, Houghton Mifflin Co.

●A copy/guideline of the class notes will be posted on a weekly basis after the corresponding Mon, Wed and Fri classes at https://courselink.uoguelph.ca/.

●Your grade will be calculated as follows:

| | | |
|---|---|---|
| 3 In-class Exams | 45% | |
| Wet Labs | 15% | |
| Online Dry Labs | 5% | https://courselink.uoguelph.ca/ |
| Final Examination | 35% | |

●Use the Discussion Board in course-link to post questions about the dry labs.

●Dates and locations of midterm and final exams will be announced in class.

●Final exam is cumulative.

●No make-up in-class exams will be given. If you miss any exam, a grade of zero will be assigned. You must bring proper documentation to Prof. Monteiro directly within 2 classes of missed examination. If your absence is justified – the percent value of the in-class exam 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.

●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 MacN 128.

●**Wet Lab Exemptions:** Deadline Tues. Sept 11, go to www.chemistry.uoguelph.ca/labexemption. Eligeble if a wet lab grade of at least 60% in CHEM 1050 received during one of the three preceding semesters in which the course was offered. Students who are granted a wet lab exemption must complete the online dry computer labs.

●**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.

● **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 $e^x$, $\log_{10}$ and $10^x$ functions. Calculators or notebook computers capable of storing text information are not allowed in the examinations.

●**Homework**: Study the class notes and do all the homework questions given by me during class.

●**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. 1or later) of “My Class Schedule” from WebAdvisor to your first lab.

Lab Schedule

| | **Group A**<br>ODD lab section numbers | Quiz | **Group B**<br>EVEN lab section numbers | Quiz |
|---|---|---|---|---|
| Sept. 10 - 14 | Check-In, Safety ~<br>Legal requirement<br>Arrive at regular starting time<br>BRING CLASS SCHEDULE and LAB MANUAL | No | Check-In, Safety ~<br>Legal requirement<br>Arrive 90 minutes after regular starting time<br>BRING CLASS SCHEDULE and LAB MANUAL | No |
| Sept. 17 - 21 | Expt. 1 Enthalpy of Formation<br>Quiz on WHMIS and Expt. 1 | Yes | *ONLINE Computer lab A**<br>*Bomb Calorimeter* | |
| Sept. 24 - 28 | *ONLINE Computer lab A**<br>*Bomb Calorimeter* | | Expt. 1 Enthalpy of Formation<br>Quiz on WHMIS and Expt. 1<br>Arrive at regular starting time. | Yes |
| Oct. 1 - 5 | Expt. 2 Equilibrium Constant | Yes | *ONLINE Computer lab B***<br>$\Delta G^o$, $\Delta H^o$, $\Delta S^o$ | |
| Oct. 8 - 12 | *NO LABS. Independent Study.* | | *NO LABS. Independent Study.* | |
| Oct. 15 - 19 | *ONLINE Computer lab B***<br>$\Delta G^o$, $\Delta H^o$, $\Delta S^o$ | | Expt. 2 Equilibrium Constant<br>Arrive at regular starting time. | Yes |
| Oct. 22 - 26 | *ONLINE Computer lab C* ***<br>*Electrolysis* | | Expt. 3 Voltaic Cells<br>Arrive at regular starting time. | Yes |
| Oct. 29 – Nov. 2 | Expt. 3 Voltaic Cells | Yes | *ONLINE Computer lab C*<br>*Electrolysis**** | |
| Nov. 5 - 9 | *No labs. Independent Study.* | | Expt. 4 Chemical Kinetics<br>Report due in three days<br>Arrive at regular starting time. | No |
| Nov. 12 - 16 | Expt. 4 Chemical Kinetics<br>Report due in three days | No | *No labs. Independent Study.* | |
| Nov. 19 - 23 | Clean up and check grades.<br>Arrive at regular starting time | No | Clean up and check grades.<br>Arrive 90 minutes after regular starting time | No |
| Nov. 26 - 29 | *Pick up Reports Any Lab at Usual Start Times For 40 min* | | *Pick up Reports Any Lab at Usual Start Times For 40 min* | |

*Results for Computer lab A must be submitted by both groups by Sunday Sept. 30, 23:59.
** Results for Computer lab B must be submitted by both groups by Sunday Oct. 21, 23:59.
*** Results for Computer lab C must be submitted by both groups by Sunday Nov. 4, 23:59.