



Introductory Chemistry I (CHMA10H)
Winter 2010
University of Toronto at Scarborough



Welcome to CHMA10! This course will provide an introduction to the study of chemical transformations of matter from both a macroscopic and microscopic perspective. To be enrolled in this course you must have previously completed senior-level chemistry in high school (SCH4U or its equivalent) or have permission of the course instructor.

Please take a few minutes to read through this document. It contains important information which will help you to succeed in this course.

Staff:

Instructor:

Dr. Effie Sauer
SW506E
416-287-7209
Email: esauer@utsc.utoronto.ca
Office Hours: Tuesdays, Wednesdays, Fridays 3:00-4:00 pm (or by appointment)

Lab Coordinator:

Lin Teo
SW155C
416-287-7220
Email: teo@utsc.utoronto.ca
Office Hours: Tuesdays and Thursdays 10:30-12:00

Email Policy:

Please use a valid "utoronto.ca" account for all CHMA10 correspondence. Emails received from other accounts are frequently filtered out as spam and may not be received. When composing your email, please use professional language. Be sure to include the course code as part of the subject line and sign the email with your first and last name, as well as your student ID. Your email will be answered as soon as possible (likely within 36 hours, unless it is a weekend or holiday).

A note on email content: Please double check the syllabus and course Blackboard page before emailing me with a question. The answers to most student questions can be found there! Questions regarding the lecture material/assigned readings/suggested problems should be posted on the discussion board (see below) rather than emailed. This will ensure that others can benefit from the responses provided and avoids having the same questions asked multiple times. Questions on the lab material should be directed to the lab coordinator or your TA.

Text:

General Chemistry: Principles & Modern Applications, 9th Ed., by Petrucci, Hardwood, Herring and Madura.

The text has an accompanying study guide/solutions manual which is not required, but is strongly recommended. The UTSC Bookstore sells a bundled package which includes the text, study guide/solutions manual and the Mastering Chemistry access code (see below).

Online Homework:

There will be weekly homework assignments to be completed using the online homework system Mastering Chemistry. If you purchase the bundled textbook package at the UTSC bookstore, your Mastering Chemistry registration code will be included. *If you acquire a copy of the text from another source, you will need to purchase a Mastering Chemistry code separately from the UTSC Bookstore.* Once activated, each Mastering Chemistry Code is valid for 1 year.

Instructions for setting up your account can be found on Blackboard under the "course information" tab. Once registered, you will need to enroll in the Mastering Chemistry page for this course. To do this, enter the Course ID: **CHMA10SAUER2010**.

Assignments will be released every Wednesday evening and will be due the following Wednesday at midnight (unless otherwise noted). ***Late assignments will not be graded.*** The assignments will be equally weighted and together count for 5% of your final grade. Note that in the final calculation for the homework grade, the lowest mark will be dropped.

Website:

CHMA10 maintains a Blackboard web space which archives a variety of course-related information including: contact information, class announcements, lecture slides, handouts, assigned readings, suggested end-of-chapter problems, and links to some useful outside resources. In addition, class emails will regularly be sent via Blackboard. ***In order for you to receive these emails, you must have a valid "utoronto.ca" email account registered with ROSI.***

To login, go to: <https://portal.utoronto.ca/webapps/portal/frameset.jsp>. Click on "log-in to the portal" at the top left. Login using your UTORid username and password (same as what's used for your UTOEmail). Under the "My Courses" box (top right), click on the CHMA10 link.

Please note that the CHMA10 website found at <http://www.uts.utoronto.ca/~chma10/winter/> is NOT up-to-date and does NOT contain the most accurate information. Please refer to the Blackboard course site for all course related information.

Discussion Board:

An online discussion board will be maintained through Blackboard. This online space will provide you with a place to post questions related to the course material. You may post anonymously, or as yourself. Feel free to answer each others questions as well. The forums will be monitored by the instructor and/or a teaching assistant to ensure that all questions are answered accurately. In addition, frequently asked questions (with their answers) may be posted here so be sure to check in periodically. ***Please note: Posts which contain answers/solutions to weekly homework assignments are not permitted and will be promptly removed.***

Early Assessment Test:

The first 2-3 weeks of class will be spent reviewing some of the fundamental concepts learned in high school. To test your mastery of these skills, there will be a **30 minute in-class test on Friday January 22nd** worth 5% of your final grade. This test will provide a valuable opportunity for you to get some early feedback and determine how well you understand these essential chemistry skills.

Term Test:

There will be a 90-minute term test worth either 15% or 25% of your final grade (see grading schemes below). This test will be written outside of class time. The exact date, time and location will be announced as soon as this information is made available from the registrar.

Policy on Missed Tests:

This course will not have any make-up tests. Should you miss a term test due to a legitimate reason, you must submit appropriate documentation *within one week of your absence*. If the reason is medical, an official UTSC medical form should be downloaded from http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf and completed by your doctor. Due to concerns of an outbreak of the H1N1 flu virus, you may not be able to see a doctor if you present flu-like symptoms. In this case, you must document your illness on ROSI and submit a print-out of the ROSI confirmation instead of the medical note. *If no acceptable documentation is received, you will receive a grade of zero for that test.*

With a validated absence, the value of the missed test will be added to your final exam. Please note that on page 328 of the 2009/2010 UTSC Calendar it states: "You cannot petition to withdraw from a course on the grounds that no work was returned to you before the last day to withdraw without academic penalty if this is the result of your having been given an extension to complete your work for reasons relating to you and not the rest of your class."

Final Examination:

There will be a 3-hour, *cumulative* exam written during the end of semester exam period. The exact date, time and location will be announced as soon as they are available. *Please note that if you miss the Final Exam, you must petition the Registrar's Office to write a make-up exam in the next formal exam period.* Check the UTSC Calendar for instructions and deadlines.

Labs:

The laboratory component of CHMA10 is compulsory. *In order to pass the course, you must also pass the lab component.*

Lab Schedule:

Laboratory periods are three hours in length and run every other week. Odd numbered practicals (Week 1 students) begin the week of January 11th. Even numbered practicals (Week 2 students) begin the week of January 18th.

| Section | Day | Time | Location | First Day of Labs |
|---------|----------|--------|----------|------------------------------|
| PRA0001 | Mondays | 2-5 pm | SW159 | Week of Jan 11 th |
| PRA0002 | Mondays | 2-5 pm | SW159 | Week of Jan 18 th |
| PRA0003 | Mondays | 2-5 pm | SW159 | Week of Jan 11 th |
| PRA0005 | Tuesdays | 2-5 pm | SW165 | Week of Jan 11 th |

Lab Manual and Notebook:

A lab manual must be purchased from the UTSC Bookstore before your first lab. You may not use a lab manual from a previous semester: the experiments are different! A lab notebook will be given to you during your first lab period.

Lab Coats and Safety Glasses:

Lab coats and safety glasses must be worn at all times in the laboratory. Contact lenses may not be worn in the laboratory. If you wear prescription eye glasses, you must purchase a pair of safety goggles that fit over your eye glasses. These items can all be purchased from the UTSC Bookstore. *You will not be allowed to work in the laboratory unless you are wearing approved eye protection and a lab coat.*

Lab Rules:

- *Be punctual:* The introductory explanations for the experiments and/or quizzes will begin at 10 minutes past the hour.
- *Be prepared:* Each student will be expected to have a good knowledge of the assigned experiment before entering the laboratory. It will be helpful to prepare a point-form pre-lab procedure before coming to the lab.
- *Be there:* Your term mark from the lab is worth a large percentage of your mark. It is based not only on the reports which you submit, but also on your ability to answer, with competence, the questions of the demonstrators and instructor.

Absences from the laboratory:

If you need to miss a laboratory period for any valid reason, you must immediately report it to your TA by phone or email. You should also leave a message with the lab coordinator, Lin Teo. If the reason for your absence is medical then you must provide documentation. Normally, this would be in the form of an official UTSC medical note completed by your doctor (downloadable at: http://www.utsct.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf); However, due to concerns of an outbreak of the H1N1 flu virus, it is possible that you will not be able to see a doctor if you present flu-like symptoms. In this case, you should document your illness on ROSI and submit the ROSI confirmation instead of the UTSC medical note. *If no reason for your absence is made before your next scheduled lab period, a mark of zero will be given for that lab.*

Please note that students will not be allowed to re-schedule or miss labs on the days of any first year term test or exam. This is a Chemistry Discipline Policy.

Tutorials:

Tutorials are scheduled in the same time slot as your laboratory but in the alternate week. Your tutorial section is linked to your lab section and is the same section number as your lab section (i.e. PRA0001 students are assigned to TUT0001).

| Section | Day | Time | Location | First Week of Tutorials |
|---------|----------|--------|----------|------------------------------|
| TUT0001 | Mondays | 2-3 pm | AC 332 | Week of Jan 18 th |
| TUT0002 | Mondays | 2-3 pm | AC 332 | Week of Jan 11 th |
| TUT0003 | Mondays | 2-3 pm | AC 334 | Week of Jan 18 th |
| TUT0005 | Tuesdays | 3-4 pm | HW 308 | Week of Jan 18 th |

Attendance at the tutorials is compulsory and will count towards your final grade (see grading scheme below). You are allowed to miss one tutorial without penalty; however, each additional absence will cost you 1% from your homework grade. Rescheduling of missed tutorials will not be permitted.

Calculators:

In accordance with the University of Toronto Scarborough Calculator Policy, only the following specific models will be allowed in all CHMA10/CHMA11 tests and exams:

Texas Instruments: TI-30, TI-34II Explorer Plus, TI-32 Explorer Plus, TI-32

Sharp: EL-531, EL-520, EL-509

Casio: fx-65, fx-250, fx-260, fx-280

Students who have illegal calculators confiscated during a test/exam will be supplied with an allowed calculator but an immediate penalty of 10% will be imposed for that test/exam. Students without a calculator will also be allowed to borrow an allowed model, but at the cost 10% off their mark on that test/exam.

Method of Evaluation:

Two grading schemes will be used in this course. The grading scheme that gives you the highest mark will be used to calculate your final grade.

| Graded Work | Scheme A | Scheme B |
|---------------------------------------|-----------------|-----------------|
| Online Homework*/Tutorials** | 5% | 5% |
| Early Assessment Test (NO MAKE-UP)*** | 5% | 5% |
| Term Test (NO MAKE-UP)*** | 25% | 15% |
| Final Exam | 40% | 50% |
| Laboratory | 25% | 25% |

*The lowest homework grade will be dropped.

**Each absence beyond the one allowed absence removes 1% from the homework grade

***If you miss a test, its value will be added to that of the final.

Note: To pass the course, you must pass the laboratory and either the term test or the final exam (and receive a final grade of 50+, of course!)

Online Grades:

Individual grades will be posted on the intranet (not Blackboard) as they become available. Please check these periodically to make sure that the posted grades match your own records. Any discrepancy should be reported immediately to the instructor or the lab coordinator, as appropriate.

Course Calendar:

A public Google calendar has been set up for this course. Check it regularly for the most up-to-date assignment and test dates. You can either copy and paste the link below, or connect via Blackboard under the "external links" tab.

<http://www.google.com/calendar/embed?src=go77kqh8eua4a77sanacffprso%40group.calendar.google.com&ctz=America/Toronto>

Lecture Topics:

Below is a brief list of topics that will be covered in this course, along with the corresponding chapters. A more detailed list, with the associated textbook readings and assigned end-of-chapter problems, can be found on Blackboard under the "readings/problems" tab.

- Review of Chemistry Fundamentals (Chapters 1-5)
- Gases (Chapter 6)
- Thermochemistry (Chapter 7)
- Atomic Structure (Chapter 8)
- Periodic Table and Properties of the Elements (Chapter 9, parts of Chapters 20-24)
- Chemical Bonding (Chapters 10-11)
- Nuclear Chemistry (Chapter 25)

Accessibility:

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office as soon as possible. I will work with you and AccessAbility Services to ensure you can achieve your learning goals in this course. Enquiries are confidential. The UTSC AccessAbility Services staff (located in S302) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations (416) 287-7560 or ability@utsc.utoronto.ca.

Academic Integrity:

Academic integrity is one of the cornerstones of the University of Toronto. It is critically important both to maintain our community which honours the values of honesty, trust, respect, fairness and responsibility and to protect you, the students within this community, and the value of the degree towards which you are all working so diligently.

According to Section B of the University of Toronto's Code of Behaviour on Academic Matters <http://www.governingcouncil.utoronto.ca/policies/behaveac.htm> which all students are expected to know and respect, it is an offence for students to:

- To use someone else's ideas or words in their own work without acknowledging that those ideas/words are not their own with a citation and quotation marks, i.e. to commit plagiarism.
- To include false, misleading or concocted citations in their work.
- To obtain unauthorized assistance on any assignment.
- To provide unauthorized assistance to another student. This includes showing another student completed work.
- To submit their own work for credit in more than one course without the permission of the instructor.
- To falsify or alter any documentation required by the University. This includes, but is not limited to, doctor's notes.
- To use or possess an unauthorized aid in any test or exam.

There are other offences covered under the Code, but these are by far the most common. Please respect these rules and the values which they protect. Offences against academic integrity will be dealt with according to the procedures outlined in the Code of Behaviour on Academic Matters.