



**Introductory Chemistry I (CHMA10H)
Winter 2011
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 ensure your success in this course.

Staff:

Instructor:

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Lab Coordinator:

Lin Teo
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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.

A note on email content: Please double check the syllabus and the course Blackboard page before emailing 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.

Required Text:

Chemistry: A Molecular Approach, 2nd Ed., by Nivaldo J. Tro. 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).

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 UTOReil). Under the "My Courses" box (top right), click on the link for "Introductory Chemistry I."

Please note that the CHMA10 website found at <http://www.utoronto.ca/~chma10/> is NOT kept 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 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 Mastering Chemistry homework assignments are not permitted and will be promptly removed.***

Online Homework:

Weekly problem sets will be assigned and graded through the online homework system Mastering Chemistry. To access these assignments, you will need to register with 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.

Registration instructions if you already have an active account:

Go to: <http://www.masteringchem.com/>.

- Enter your "login Name" and "Password".
- You will now be prompted for the new course ID. Enter **CHMA10WINTER2011**
- This will take you into the Mastering Chemistry program for this course.

Registration instructions if you don't have an account:

- Go to: <http://www.masteringchem.com/>
- Under the section for "Register" click on the "Students" button.

- Select "Yes I have an access code" and click "continue"
- Click "I accept" to the License Agreement and Privacy Policy
- Select "No" to indicate that you do not have an account and set up your login and password. NOTE: Please use your **student ID as your login name** to ensure that you receive credit for your mastering chemistry grades.
- Enter your Access Code (acquired with your textbook package or purchased separately from the bookstore) in the field provided.
- Complete the requested account information page. **Make sure that the name you enter is the same as the name on file with ROSI.** Under School Name, select University of Toronto - Scarborough.
- Click on Login Now and follow the instructions above to enroll in the Mastering Chemistry account for this course.

Assignments will be released every Wednesday evening and will be due the following Tuesday at 9:00 am (unless otherwise noted). **Late assignments will not be graded.** The assignments will be equally weighted and together will count for 5% of your final grade. Note that in the final calculation for the homework grade, the lowest mark will be dropped.

Early Assessment Test:

The first 2 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 **50 minute in-class test on Friday January 28th** 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.

Mid-Term Test:

There will be one 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 either just before or just after reading week. The exact date, time and location will be announced as soon as this information is made available from the registrar.

Policy on Missed 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 for your absence is medical, an official UTSC medical note must be downloaded from the UTSC registrar's site (http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf) and completed by your doctor. ***If no acceptable documentation is received within one week, you will receive a grade of zero for that test.*** Once your absence has been validated, you will be contacted to schedule a make-up test.

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 (PRA0001, PRA0003 etc.) begin the week of January 17th. Even numbered practicals (PRA0002, PRA0004 etc.) begin the week of January 24th.

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. 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 both your TA and the lab coordinator (Lin Teo) by either phone or email. If the reason for your absence is medical, an official UTSC medical note must be downloaded from the registrar's site (http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf) and completed by your doctor. *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 alternate weeks. Your tutorial section is determined by your practical number. For example, PRA0001 students are assigned to TUT0001. Odd numbered tutorials begin the week of January 24th. Even numbered tutorials begin the week of January 17th.

In total, there will be five tutorials throughout the semester. Three of these will take place at the time and location listed on ROSI. These will be 1-hour sessions led by a TA who will guide you through practice problems and answer student questions relating to the course material. The other two tutorials will be slightly longer (1.5 hours) and will be held in the Bladen computer

labs where you will work through molecular labs using the software package “Odyssey.” A detailed tutorial schedule will be posted on Blackboard.

Attendance at tutorials is mandatory 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 point from your 5 homework points. 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 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, however, an immediate penalty of 10% will be imposed for that test/exam.

Method of Evaluation:

There will be two grading schemes used in CHMA10. Your grade will be calculated using both schemes; the *higher* of the two will be assigned as your final grade.

Graded Work	Scheme A	Scheme B
Online Homework*/Tutorials**	5	5
Early Assessment Test	5	5
Mid-Term Test	25	15
Final Exam	40	50
Laboratory	25	25
TOTAL	100	100

*The lowest homework grade will be dropped.

**Each absence beyond the one allowed results in -1 from the homework grade

To pass this course, the following three criteria must be met:

- Your final course grade must be at least 50%
- You must pass the laboratory
- You must pass either the mid-term test or the final exam

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.

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 1-4)
- Gases (Chapter 5)
- Thermochemistry (Chapter 6)
- The Quantum Mechanical Model of the Atom (Chapter 7)
- Periodic Properties of the Elements (Chapter 8)
- Chemical Bonding (Chapters 9-10)
- Radioactivity and Nuclear Chemistry (Chapter 19)

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.