Dear Students:
Welcome to Introductory Chemistry Part II! My primary goal is to ignite your passion for chemistry by creating a meaningful learning environment with many real life applications of chemistry. The knowledge you gain in this course is applicable in diverse disciplines, including Medicine, Pharmacy, Environmental Sciences, Neuroscience, Biochemistry and Biology. I am looking forward to teaching you many interesting topics, including inter molecular forces, covalent and ionic bonds, chemical kinetics, catalysis, chemical equilibrium, entropy, free energy and electrochemistry. Please read through the course syllabus to understand the learning expectations and assessment methods. Looking forward to meeting all of you!

Instructor:
Dr. Nirusha Thavarajah
Email: nirusha.thavarajah@utoronto.ca
Contact Number: 416-287-7224
Office Hours: Mondays 12:00-1:30 pm and Thursdays 12:00-1:30 pm and by appointments at ENV 402

Lab Coordinator:
Prof. Wanda Restivo
Email: restivo@utsc.utoronto.ca
Contact number: 416-287-7222
Office hours TBD. Times and room will be posted on Blackboard
Prof. Wanda Restivo will be supervising from weeks 7-12. Also if there are any issues with the labs such as missing a lab due to illness, switching a practical or having to be away for a week in the summer should go through Wanda.
Dr. N. Thavarajah will be supervising the labs for weeks Weeks 1-6

Email Policy:
- Use UTSC account for all your correspondences. If other accounts (Yahoo, Gmail, Hotmail, etc.) are used, your email will be filtered out as _spam and may not be received.
- Put CHMA11 in the subject line followed by the reason for the email.
- Use professional language with a formal greeting - NOT "Hey".
- Sign the email with your first and last name. Include your student ID number after your name.
- Every effort will be made to respond to student emails within 36 hours (M-F) provided that the above protocol is used.
- A note on email content: Please do not email questions to the instructors regarding the lecture material/assigned reading/suggested problems, exam format. These will be posted on the Blackboard.

Lectures: Mondays 2:00-4:00 pm and Thursdays 10:00 am-12:00 pm at SW319. I strongly encourage all of you to attend all the lectures to engage in the participatory lessons! Web-Option lecture casting is available as a supplementary course material.

Website:
CHMA11 maintains a Blackboard web space, which archives a variety of course-related information including: grades, class announcements, lecture and lab materials (including access to recorded lectures), contact information and links to outside resources. In addition, class emails will periodically 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 UTORmail). Under the “My Courses” box (top right), click on the CHMA11 link.

Announcements: Official announcements regarding test locations, material covered for each test and other important announcements will be posted on the CHMA11H3 course web site. It is absolutely your responsibility to check these postings regularly for important announcements.

Accessibility: Students with diverse learning styles and needs are welcome in this course. If you require accommodations for a disability, or have any accessibility concerns about the course, the classroom or course materials, please contact us and or the Accessibility Services as soon as possible: SW 302, (416) 287-7560 or ability@utsc.utoronto.ca

Peer Facilitator Program: Facilitated Study Group (FSG) is being run through the Centre for Teaching and Learning. These weekly sessions are open to all students taking this course who want to improve their understanding of course material, improve their study techniques, and improve their grade. Attendance is voluntary. In these sessions you will compare notes, discuss important concepts, develop study strategies, and prepare for exams and assignments on course material. Course material is NOT re-lectured. The FSG’s are led by a trained facilitator who has previously taken the course. A survey will be taken during the first week of class to determine the best days and times for most students, and they will begin probably the 2nd or 3rd week of class.

Grade Calculation:
Your final grade in the course will be calculated according to the grading scheme below:

<table>
<thead>
<tr>
<th>Graded work</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory*</td>
<td>25%</td>
</tr>
<tr>
<td>MC Assignments</td>
<td>5%</td>
</tr>
<tr>
<td>Mid-Term test</td>
<td>30%</td>
</tr>
<tr>
<td>Final exam</td>
<td>40%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
</tr>
</tbody>
</table>

*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!)
Calculators: Only non-programmable, non-communicating calculators are allowed in tests and exams for this course (both lecture and lab). Invigilators have the authority to check calculators during tests and exams. 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.

Labs: The laboratory component of CHMA11 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 practical’s (Week 1 students) have their first lab on the week of May 8th. Even numbered practical’s (Week 2 students) will have their first lab on the week of May 15th.

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 and course requirements will be different. DO NOT wait to purchase your lab manual as it contains a host of important information:

- Lab Schedules and other important dates
- Late and absence policies
- Rules regarding safety
- Appropriate attire for the labs
- Marking schemes
- Guidelines on how to properly prepare for the lab

The bookstore DOES NOT stock enough lab manuals for everyone. If they run out, you MUST preorder a copy through the bookstore – this takes time. Failure to adhere to the rules and policies outlined within the lab manual will adversely affect your lab mark – in some instances the impact will be severe.
In addition, students will be required to purchase their own lab notebook. The book must be hard-cover, permanently bound (not spiral or loose leaf) with the approximate dimensions 8.25” x 10.5” inches. They can be purchased at the UTSC bookstore; however students are free to purchase their books at a merchant of their choice (so long as they meet the above requirements). **Students are allowed to reuse their lab notebook from previous courses (just make sure that your table contents reflects the fact that the book contains material from multiple courses).**

**Lab Safety:**
Safety in the laboratory is an extremely important element in the chemistry program at this University. Failure to follow safe practices can cause laboratory accidents which may result in the loss of time, damage to clothing, and other property, and most importantly personal injury. By following suitable precautions, you can anticipate and prevent situations that would otherwise lead to accidents. Students registered in CHMA11H3S will be automatically enrolled in the course which should appear in your “My Courses” window of your blackboard home page.

As part of this course, students will be expected to watch a video (approximately 30 minutes long) and take a multiple choice quiz on the material you just learned (the quiz is different than the previous term). Students must obtain 80% on the quiz to pass the WHMIS course. **In addition, students will be required to print off their quiz results and present them to your TA before you will be allowed to enter the lab.**

**Safety Equipment:**
Students will be required to purchase approved indirect vented chemical splash safety goggles, and a lab coat before attending their first lab. These items can be purchased through the bookstore. All safety eyewear must meet either ANSI Z87+ or CSA Z94.3 Standard for high impact protection (if you see one of those standards stamped on your eyewear somewhere then they meet that particular standard).

Labs coats must be **100% cotton – no exceptions.**

Further information regarding appropriate attire please see the guidelines outlined in your lab manual. **Note that students not wearing approved safety gear will not be allowed to participate in the lab.**

**Ancillary Fees**
Students taking CHMA11 will be assessed a $25.00 ancillary fee which will cover the cost of chemicals, filter paper, Pasteur pipettes and other items consumed over the course of the lab. For more information regarding ancillary fees students are encouraged to visit the following website: [http://www.planningandbudget.utoronto.ca/tuition.htm](http://www.planningandbudget.utoronto.ca/tuition.htm)

**Absence:** If you miss a significant period of class work through illness or a related reason, you should request consideration by submitting a completed University of Toronto Student Medical Certificate which is available on the following web site: [http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf](http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf). The document must be presented within one week of the date of absence. However, you should notify the course instructors the day of your absence (see your lab manual regarding absences from the lab). Only serious illness (or equivalent reasons) will be accepted as justification for absence (note: the U of T Medical Certificate, filled out by your doctor, stating that you saw him/her on a given day is not adequate. Your doctor must certify that you were too sick to attend the test, etc.). The form of consideration
extended for a particular item of missed term work will be explained to you when you submit the certificate.

**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 Behavior on Academic Matters [http://www.governingcouncil.utoronto.ca/policies/behaveac.htm](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.
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<thead>
<tr>
<th>Week</th>
<th>Topic(s)</th>
<th>Suggested Reading</th>
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<td>1</td>
<td>Dynamic Chemical Equilibrium</td>
<td>14.1-14.3</td>
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<tr>
<td>2</td>
<td>Dynamic Chemical Equilibrium</td>
<td>14.4-14.8</td>
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<tr>
<td>3</td>
<td>Acid-Base Equilibria in Aqueous Solution</td>
<td>15.1-15.6</td>
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<td>4</td>
<td>Acid-Base Equilibria in Aqueous Solution Cont.</td>
<td>15.7-15.11</td>
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<td>5</td>
<td>Aqueous Ionic Equilibria</td>
<td>16.1-16.4</td>
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<tr>
<td>6</td>
<td>Aqueous Ionic Equilibria cont.</td>
<td>16.5-16.8</td>
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<tr>
<td></td>
<td><strong>June 13(^{th})-17(^{th})</strong></td>
<td><strong>READING WEEK</strong></td>
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<tr>
<td>7</td>
<td>Gibbs Energy and Thermodynamics</td>
<td>17.1-17.4</td>
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<tr>
<td>8</td>
<td>Gibbs Energy and Thermodynamics Cont.</td>
<td>17.5-17.9</td>
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<tr>
<td></td>
<td><strong>July 1(^{st})</strong></td>
<td><strong>CANADA DAY</strong></td>
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<td>9</td>
<td>Electrochemistry</td>
<td>18.1-18.4</td>
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<tr>
<td>10</td>
<td>Electrochemistry cont.</td>
<td>18.5-18.8</td>
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<tr>
<td>11</td>
<td>Chemical Kinetics</td>
<td>13.1-13.4</td>
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<td><strong>Week 12</strong></td>
<td><strong>Chemical Kinetics cont.</strong></td>
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<td><strong>August 1(^{st})-5(^{th})</strong></td>
<td><strong>Study Break</strong></td>
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<td></td>
<td><strong>August 8(^{th})-19(^{th})</strong></td>
<td><strong>Final Exam Period</strong></td>
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