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Mondays, Wednesdays, Fridays from 12:00 nn–13:00 pm

CHMA11 lectures will be pre-recorded and uploaded onto Quercus before the aforementioned class time. A TA will be available during the class hour to answer lecture-related materials.

Students are encouraged to write and submit a summary within 24 hours of the lecture. You can upload the written summary as a pdf file under Assignments in Quercus. If 7/10 summaries (well written) are submitted, a bonus mark of 1% will be awarded to the final grade.

Office hours will be offered via Bb Collaborate and other online platforms chosen by the instructor(s). Announcements and instructions pertaining to Office Hours will be communicated via Quercus or during lectures.

Online CHMA11 tutorials are designed to help students practice additional problems to meet the learning objectives of each lecture module. The tutorials will be held weekly on Bb Collaborate, starting from the 2nd week of classes. Additional details on the format of the tutorial sessions and schedule will be available on the course Quercus page in the 1st week of classes. Although, there are no grades associated with the online tutorial sessions—you are strongly encouraged to attend the tutorial sessions to facilitate your learning.

The goals of this virtual lab program are to train you on safe laboratory practices and help you understand the fundamental chemistry laboratory techniques. The laboratory modules are designed to navigate you through safety training and experiments. The experiment modules are designed to teach the theory and lab techniques and assess your knowledge. Labs are directly or indirectly connected to the first-year chemistry content. As part of the pre-lab work, It is \_\_\_\_\_ to pass the lab component of the course to be eligible to pass the course. The lab component is worth 20% of your course grade.

The Synchronous Online Laboratory periods are three hours in length and run every other week.

numbered practicals (Week 1 students) have their first lab during week of January 18th.

numbered practicals (Week 2 students) will have their first lab the week of January 25th.

January 18 <sup>th</sup> January 25 <sup>th</sup>	1 2	Experiment 1: Solution Preparation
February 1 <sup>st</sup> February 8 <sup>th</sup>	1 2	Experiment 2: Equilibrium
February 15 <sup>th</sup>	Reading Week	No Labs
February 22 <sup>nd</sup> March 1 <sup>st</sup>	1 2	Experiment 3: Strong Acid and Strong Base Titrations
March 8 <sup>th</sup> March 15 <sup>th</sup>	1 2	Experiment 4: Weak Acids and Weak Bases
March 22 <sup>nd</sup> March 29 <sup>th</sup>	1 2	Experiment 5: Electrochemistry

! The synchronous session of the virtual lab will commence 10 min past the hour of the scheduled time for your practical on . You are encouraged to arrive on time for your assigned session. The synchronous laboratory periods are and run every other week. If you are unable to attend the synchronous lab session during the scheduled hours, you can watch the recorded sessions after every lab to follow up with the instructions and complete the assigned tasks.

The will be spent on discussing theory, procedure, and calculations pertaining to the lab. In the , the students will be asked to work on their experiment in the Labster virtual lab environment. While working in the Labster virtual lab environment, if students have any questions, the TAs will be available to help on the BB collaborate during the synchronous lab hours. It is advisable that students open the Labster by opening a second browser with course Quercus. This way students can still remain logged in on BB collaborate lab forum with their TAs presence while working on the Labster virtual lab. The Labster virtual environment will be opened to students during the 3.0 Hr synchronous \_\_\_\_\_ ! \_\_\_\_\_ . Students must finish their Labster virtual lab during their given time slot to obtain their lab results and record them in their notebook to do the calculations. These results will be used to complete the report sheet.

will be used for TA office hours. Students are encouraged to attend the office hours to have all their questions pertaining to the virtual labs answered or if they don't have any questions, they can continue to work on completing their Labster virtual lab assignment. Students who cannot attend the synchronous TA of



*If a student misses a lab assignment and provides no reasonable explanation or supporting documentation, a mark of zero will be assigned.*

Students must complete at least \_\_\_\_\_ in order to be eligible to pass the course.

- If a student misses one experiment module assessments (pre & post), and provides appropriate documentation, the weight of that experiment will be added to the lab exam.

Check Quercus (<https://q.utoronto.ca>) for important announcements, updates to readings, assignment topics, requirements, and evaluation, etc. Students are responsible for checking the course website regularly. Make sure that your ".utoronto" emails can accept the course announcements.

There will be one 90-minute mid-term test written outside of class either just before or just after Reading Week. The midterm will be administered online. The exact date and time and logistics will be announced as soon as they are available. If you miss the mid-term due to a legitimate reason, you must submit appropriate documentation within one week of your absence, then, the weight of the midterm mark would be transferred to the final exam. If the reason is medical, an official UTSC medical form should be downloaded from the Registrar's website: [http://www.utsc.utoronto.ca/~registrar/resources/pdf\\_general/UTSCmedicalcertifi](http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertifi)

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 FSGs are led by a trained





	Mar 15–19	Electrochemistry	18.1–18.4
	Mar 22–26	Electrochemistry cont.	18.5–18.8
	Mar 29–Apr 2	Chemical Kinetics	13.1–13.4
	Apr 5–9	Chemical Kinetics	13.5–13.7
	Apr 13–23		