

Techniques in Analytical Chemistry ~ CHMB16H3 Fall 2019

Lectures: Mondays, 9:00~12:00, SW128

Lecture Instructor: Prof. Ruby Sullan, EV566,ruby.sullan@utoronto.ca

Office Hours: Mondays, 14:00~17:00

Lab Instructor: Prof. Kris Kim, EV560,kris.kim@utoronto.ca

Office Hours: Thursdays, 14:30~16:30 and Fridays, 10:00~11:00

Welcome to Techniques in Analytical Chemistry! Analytical Chemistry is an exciting field with far-reaching applications ~ medicine, forensics, agriculture, environment, engineering, even in space exploration! In this course, you will be taught to think like and act like an analytical chemist. We will cover both the fundamental and practical aspects of the methodologies and instrumentation ~ classical and modern ~ widely used in the field. Topics range from sample preparation to errors and statistics to electrochemistry, spectroscopy, and chromatography. While the lab will give you ample opportunities to act like an analyst, the lecture part will teach you the basic principles of the subject. Our hope is that this course will develop in you an appreciation for the depth and importance of Analytical Chemistry. By the end of the semester, you will have the opportunity to apply what you learn by proposing a short chemical analysis experiment. Whether you are like Sherlock Holmes who solves problems by logical reasoning or MacGyver who saves the world with a duct tape and paper clip, CHMB16 has got you covered.

Method of Evaluation

*To pass the course, you have to pass the Laboratory component. Lab evaluation can be found in page 10 of your Lab Manual. **

Communication : 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.

Cell Phones: During lectures and labs please put your cell phones in silent mode to avoid disruption of the class. If circumstances warrant use of your cell phone and you must receive an emergency call, please inform the Course Instructor at the beginning of the session in advance and then excuse yourself from the session to respond to the call outside the lecture hall or laboratory.

Academic Calendar: Further information about academic regulations and course withdrawal deadlines can be found in the UTSC Calendar. You are encouraged to read this material.

Centre for Teaching and Learning: If you need assistance with effective writing skills, study skills, exam