

**Bio-Organic Chemistry**  
**CHMC47 2019**  
**Course Outline**

**This document contains important information and should be kept in a safe place where you can refer to it throughout the semester.**

**Welcome to the CHMC47H3: Bio-Organic Chemistry.** This course studies the chemistry of heterocycles, nucleic acids, terpenes, steroids and other natural products; amino acids, proteins and carbohydrates; introduction to enzyme structure and catalysis; an also introduction to the chemistry of drugs.

**LEC01:** Fri 9:00-11:00 MW170 and TU 17:00-18:00 IC220

**Labs:** Mo 9:00-13:00, EV112,113,114,122; Thur. 9:00-13:00, EV112,113,114. Please note that labs will be running every week. First lab will be on Monday, September 9<sup>th</sup>.

**Lecturer and Lab Coordinator:** Dr. Lana Mikhaylichenko

Contact: [mikhay@utsc.utoronto.ca](mailto:mikhay@utsc.utoronto.ca)

(416) 287-7207, EV556 or EV107 (during the lab)

**Office hours:**

**Discussion Sessions:**

The discussion sessions for this class will be organized after our first lecture. I will try to find out what time and day will work for the majority of our class. This is your time to ask questions that you were not able to ask during the lecture and work together on course related problems.

**Learning Outcomes for Course:**

By the end of this course, students will be able to:

- Identify, classify and name carbohydrates, amino acids, nucleic acids, and other biochemical compounds.

- Understand the principles of the chemistry connected to living systems. The

**Lab Manual** for this course will be sold through UTSC Chemistry Society (dates and location TBA). The introductory part of the Lab Manual has a tentative lab schedule and all the information you need to know about these labs. Please read it before coming to the actual labs. All information about upcoming lab will be also posted on course Quercus page in Lab Schedule section.

### Oral Presentations

Literature assignment which also contains topics for oral presentations will be given to you during second lab period. The location and time for your presentations will be posted later on a Quercus course page. Please check the Quercus for the detailed explanation about this presentation. Do not worry – historically students do not like the idea about oral presentation at the beginning but really enjoy this experience at the end.

### Literature assignment

The detailed explanation of my expectations for the good literature assignment will be posted on a course Quercus page. We are going to use Quercus **peer review** program for the essay part of your literature assignment. Detailed instructions of how to use this program will be posted on a course Quercus page.

We will also have a guest lecturer who will let you know about UTSC writing centre and all the help available there. You will submit your literature assignment through **Turnitin** program imbedded into Quercus assignment tool. This is a U of T statement about this program:

**"Normally, students will be required to submit their course essays to Turnitin.com for a review of textual similarity and detection of possible Plagiarism. In doing so, students will allow their essays to be included as source documents in the Turnitin.com reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of the Turnitin.com service are described on the Turnitin.com web site".**

I will post a detailed explanation of how to submit your assignment later on a course page. Link to Turnitin program will be also posted in External Links section on a course Quercus page.

### Study Hints:

Organic chemistry is a cumulative subject. As such, an understanding of new material depends on mastery of topics discussed in previous chapters, including that which was taught in Organic Chemistry I and II. I will remind you which chapter you need to review if you do not remember it well. **Keep up with the material –do not let yourself get behind!!!**

### Class notes:

Sets of *incomplete notes*, will be available on the class Quercus page prior to the corresponding lecture. You are responsible for printing these notes and bringing them



**WORK:** Falsifying institutional documents or grades. Falsifying or altering any documentation required by the University, including (but not limited to) doctor's notes. All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behavior 08. Academic Matters. If you have questions or concerns about what constitutes appropriate academic behavior or appropriate research and citation methods, you are expected to seek out additional information on academic integrity from your instructor or from other institutional resources (see [http://www.utoronto.ca/academicintegrity/resourcesfor\\_students.html](http://www.utoronto.ca/academicintegrity/resourcesfor_students.html)).

Please also note this:

The Department of Physical and Environmental Sciences at UTSC provides state-of-the-art education in chemistry. Chemistry being an experimental science makes learning in a laboratory setting critical. In order to provide the latest technology to enhance the student learning experience, UTSC will be charging ancillary fees for all chemistry courses that have a laboratory component. Those fees are used to recover the cost of materials and services used during the lab and to maintain and upgrade the equipment used by students. To view a complete list of those fees, students are encouraged to visit the following link:  
[http://www.planningandbudget.utoronto.ca/Assets/Academic+Operations+Digital+Assets/Planning+\\$126+Budget/2012-13+Category+5+Ancillary+Fees.pdf](http://www.planningandbudget.utoronto.ca/Assets/Academic+Operations+Digital+Assets/Planning+$126+Budget/2012-13+Category+5+Ancillary+Fees.pdf)

**I am looking forward to see you all and work with you!**