

## CHMB21H3S, Chemical Structure and Spectroscopy

**Instructor:** Prof. Alex Voznyy [o.voznyy@utoronto.ca](mailto:o.voznyy@utoronto.ca)

**TA:** Zhibo Wang (homework grading)  
Filip Dinic (labs)

**Discord channel:** <https://discord.gg/xdkrqN3pPt>

### **Lectures:**

Synchronous, on Zoom (at least until January 31)

Monday 15:00 17:00,

Wednesday 15:00 16:00

Office hours: any day *by appointment*. Questions

### Recommended Texts:

[https://www.youtube.com/playlist?list=PLm8ZSArAXicL3jKr\\_0nHHs5TwfhdKMFhh](https://www.youtube.com/playlist?list=PLm8ZSArAXicL3jKr_0nHHs5TwfhdKMFhh)

Atkins, J. de Paula, J. Keeler: Atkins' Physical Chemistry: Quantum chemistry, spectroscopy, and statistical thermodynamics

A. McQuarrie, Quantum Chemistry; T. Engel Quantum Chemistry,

Spectroscopy 3rd edition or T. Engel and P. Reid, Physical Chemistry 2nd edition.

Openstax <https://openstax.org/books/university-physics-volume-3/pages/7-introduction>

### Midterm:

There will be a **2-hour mid-term test written during one of the classes after Reading Week**. If you miss the mid-term due to a legitimate reason, you must submit appropriate documentation *within one week of your absence*. If the reason is medical, an official UTSC medical form should be

[http://www.utsc.utoronto.ca/~registrar/resources/pdf\\_general/UTSCmedicalcertificate.pdf](http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf)

and completed by your physician. Students with a validated absence will be permitted to write a make-up exam. ***If no acceptable documentation is received, you will receive a grade of zero for that test.***

### Final Examination:

There will be a **2-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.*** e.g. **for a missed April Final Exam, the make-up exam is in August**. Your documentation is crucial for a successful petition and must be submitted by the last day of the exam period. Check the UTSC Calendar for instructions and deadlines.

### Labs:

**The laboratory component of CHMB21 is compulsory**. In order to pass the course, you must also pass the lab component. **Attendance at all labs is expected**. Attendance is taken in labs. If you need to miss a laboratory period for any *valid* reason, you must contact the lab TA by e-mail *before* your next scheduled lab period. If the reason for your absence is medical, you must download a UTSC Medical Certificate and have it completed by your doctor (download at: [http://www.utsc.utoronto.ca/~registrar/resources/pdf\\_general/UTSCmedicalcertificate.pdf](http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf)

The completed note must contain the following information:

Verification that you were examined on or before the day of your missed lab

The nature of your illness

A statement indicating the physician's professional opinion as to whether you should receive special consideration on medical grounds

Submit your completed medical note to TA within one week of your absence. The make-up lab will be arranged with your TA.

The lab manual will be available for download from the course page on Quercus.

### On Academic Integrity:

Academic integrity is essential to the pur

individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The University's Academic Dishonesty Policy ([www.governingcouncil.utoronto.ca/policies/behaveac.htm](http://www.governingcouncil.utoronto.ca/policies/behaveac.htm)) outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences. Potential offences include, but are not limited to:

In papers and assignments:

- 1.
2. Submitting your own work in more than one course