CHM 1266: Physical methods in Inorganic Chemistry

I CONTACTS

COURSE COORDINATOR
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Other professors  
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II COURSE OVERVIEW

COURSE DESCRIPTION:  
This is a team-taught course on physical methods in inorganic chemistry.

STUDENT LEARNING OUTCOMES:  
To give the student a clear understanding of the methods and a general proficiency in various methods applied to inorganic chemistry issues.

PREREQUISITE COURSE:  
The prerequisite for this course is admission to graduate school.

Supplemental:

III HOW THE COURSE IS ORGANIZED

The zoom lecture will be announced on Quercus. 
The lectures are on Tuesdays at 3 PM-5 PM.

Sept 21/28: DWS; Mossbauer, NMR of paramagnetic compounds  
Oct 5/12: DS; diffraction methods  
Oct 19/26: UF; DFT methods, EPR spectroscopy  
Nov 2 /16: RM; advanced NMR techniques  
Nov 23/30: GO; EXAFS, XPS-UPS

Each Professor will provide a short assignment, due a week after their last lecture.

Dec 3  Abstract due  
1 pg abstract and lead references  
Dec 6  Student Presentations  
Students are asked to present a paper in which non-routine, characterization techniques are exploited. (15 min and 5 min for questions).
IV  EVALUATION/GRADING SCHEME

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<th>Assignment (5x5)</th>
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<td>Abstract</td>
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<td>Presentation</td>
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V  COURSE POLICIES

- I will make every effort to respond to email within 24 hrs on weekdays (Douglas.stephan@utoronto.ca).

- Office hours: I will be available M-F (1-5:30 pm); barring other commitments. Please use the link below to arrange a TEAMS meeting using the booking webpage: https://outlook.office365.com/owa/calendar/DouglasStephan@utoronto.onmicrosoft.com/bookings/

- The University of Toronto is committed to equity, human rights, and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect where all members of our community can express themselves, engage with each other, and respect one another’s differences. U of T does not condone discrimination or harassment against any persons or communities."

- Privacy language and appropriate use of course materials: https://teaching.utoronto.ca/ed-tech/audio-video/sample-statements/

VI  TECHNOLOGY REQUIREMENTS

Specific guidance from the U of T Vice-Provost, Students regarding student technology requirements is available here: https://www.viceprovoststudents.utoronto.ca/covid-19/tech-requirements-online-learning/

Advice for students more broadly regarding online learning is available here: https://onlinelearning.utoronto.ca/getting-ready-for-online/

This course requires the use of computers, and of course sometimes things can go wrong when using them. You are responsible for ensuring that you maintain regular backup copies of your files, use antivirus software (if using your own computer), and schedule enough time when completing an assignment to allow for delays due to technical difficulties. Computer-viruses, crashed hard drives, broken printers, lost or corrupted files, incompatible file formats, and similar mishaps are
common issues when using technology, and are not acceptable grounds for a deadline extension.

VII INSTITUTIONAL POLICIES AND SUPPORT

ACADEMIC INTEGRITY

On Academic Integrity:
Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto is a strong signal of each student’s individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The University of Toronto’s Code of Behaviour on Academic Matters (https://governingcouncil.utoronto.ca/secretariat/policies/code-behaviour-academic-matters-july-1-2019) 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. Using someone else’s ideas or words without appropriate acknowledgement.
2. Submitting your own work in more than one course without the permission of the instructor.
3. Making up sources or facts.
4. Obtaining or providing unauthorized assistance on any assignment.

On tests and exams:
1. Using or possessing unauthorized aids.
2. Looking at someone else’s answers during an exam or test.
3. Misrepresenting your identity.

In academic work:
1. Falsifying institutional documents or grades.
2. Falsifying or altering any documentation required by the University.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. If you have questions or concerns about what constitutes appropriate academic behaviour 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 https://www.academicintegrity.utoronto.ca/).

Use of Turnitin
Note for instructor: Turnitin (https://teaching.utoronto.ca/ed-tech/teaching-technology/turnitin/) is a very highly recommended tool directly integrated into Quercus that will assist in detecting textual similarities between compared works.
Students must be informed at the start of the course that the instructor will be using Turnitin. If you plan to use this tool, the course syllabus must include the following statement (as is):

"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".

COPYRIGHT
Course videos and materials belong to your instructor, the University, and/or other source depending on the specific facts of each situation and are protected by copyright. In this course, you are permitted to download session videos and materials for your own academic use, but you should not copy, share, or use them for any other purpose without the explicit permission of the instructor.

ACCESSIBILITY NEEDS
Students with diverse learning styles and needs are welcome in this course. The University of Toronto is committed to accessibility: if you require accommodations for a disability, or have any other accessibility concerns about the course, please contact Accessibility Services as soon as possible.

ADDITIONAL SERVICES and SUPPORT
The following are some important links to help you with academic and/or technical service and support

- General student services and resources at Student Life
- Full library service through University of Toronto Libraries
- Resources on conducting online research through University Libraries Research
- Resources on academic support from the Academic Success Centre
- Learner support at the Writing Centre
- Information for Technical Support/Quercus Support