

Chemistry 3523 – Structure Determination

Course Outline – Fall 2014

- Professor: Dr. Bobby Ellis (Office: 323 Elliott Hall; E-mail: bobby.ellis@acadiau.ca)
- Lectures: Tues. and Thurs. 10:00-11:20 am in 320 Elliott Hall
- Tutorials: Optional tutorials will be held prior to midterm and final exams
- Labs: Thurs. 1:30-4:30 pm in 204 Elliott Hall
- Office Hours: Wed. 8:30-10:30 am
- Textbook: *Organic Structure Analysis, 2nd Edition* by Crews, Rodríguez and Jaspars
ISBN-10: 0195336046 ISBN-13: 978-0195336047
The textbook is **strongly recommended** – *some assignments questions will come from the textbook*
- Website: Supplementary Problems and Other Course Resources:
<http://www.acadiau.ca/~bellis/resources/>
- Grading:
- | | | |
|---------------------------------|-----|-----------------------------|
| Assignments/Quizzes | 15% | |
| Lab Reports | 25% | |
| Midterm Exam #1 | 15% | Thursday, October 9, 2014 |
| Midterm Exam #2 | 15% | Thursday, November 20, 2014 |
| Final Exam (<i>Open Book</i>) | 30% | |

There are no make-up midterm exams. If you have a valid excuse (as determined by the Registrar) the point value for the midterm is transferred to the value of the final exam. Programmable calculators are not allowed for midterm exams.

The goals of this course are to solidify and build upon the concepts of spectroscopy presented in CHEM 2303 and CHEM 2513/2533. The topics covered in this course are:

1. Spectroscopy in Structural Analysis
2. NMR Spectroscopy (1D and 2D)
3. Infrared Spectroscopy
4. Mass Spectrometry
5. Ultraviolet Spectroscopy

Students with Disabilities that Affect Learning

If you are a student with a documented disability who anticipates needing accommodations in this course, please contact Disability Access in the Student Resource Centre, lower floor of the Old SUB (Old Student Union Building), disability.access@acadiau.ca, 902-585-1823.

Policies on Missed Course Work due to Absences

Assignments

If an assignment is not submitted by the beginning of class on the due date and you **do not have a valid excuse** (as determined by the Registrar), you lose 20% of the total value per calendar day until it is submitted.

If an assignment is not submitted by the beginning of class on the due date and you **have a valid excuse** (as determined by the Registrar), the point value for that assignment is transferred to the value of the final exam.

Laboratory Work

You must complete more than 50% of the hands-on portion of an experiment in order to submit a report.

- For two week experiments you must be present for at least the first week.
- For three week experiments you must be present for at least two of the three weeks.

If you were not present for enough of the experiment to submit a report and you **do not have a valid excuse** (as determined by the Registrar), you will receive a grade of zero for that report.

If you were not present for enough of the experiment to submit a report and you **have a valid excuse** (as determined by the Registrar), the point value for that report is transferred to the value of the final exam.

If you completed the hands-on portion of an experiment and the laboratory report is not submitted by the beginning of lab on the due date and you **do not have a valid excuse** (as determined by the Registrar), you lose 20% of the total value per calendar day until it is submitted.

If you completed the hands-on portion of an experiment and the laboratory report is not submitted by the beginning of lab on the due date and you **have a valid excuse** (as determined by the Registrar), it is due the first day after the excused period by 6 pm.