

Chem 2213a: Organic Chemistry for Life Sciences

Intersession 2009 Course Outline

Mandatory Notice from the Registrar: Unless you have either the prerequisites for this course or written special permission from your Dean to enroll in it, you will be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites. The prerequisite for this class is Chemistry 1050, 1024a/b, or former 1020, 020, 023, or 024a/b.

Course website

- Students should check WebCT (<http://owl.uwo.ca>) on a regular basis for news and updates. Please contact the course instructor if Chem 2213a does not appear as one of your courses in WebCT.

Instructor

- Dr. Felix Lee flee32@uwo.ca Materials Science Addition 1203
- Instead of office hours, the course offers Resource Room hours (see page 4)

Lecture information

- Natural Sciences Centre room 1, 9:30 AM – 12:30 PM
- There will be a 15-minute break for everyone (included the instructor)

Course materials (available from the Bookstore)

- 2008-9 Chemistry 2213a Laboratory Manual with Past Exams
 - Students repeating the course will require a new lab manual
- *Introduction to Organic Chemistry*, Brown and Poon, 3rd edition (2005), plus the accompanying *Student Solutions Manual* (Erickson, Brown, and Poon, 2005). Both the textbook and the solutions manual are available from the bookstore at a bundled price.
- *Molecular visions* molecular model set

Student Development Centre

- Students are encouraged to make use of the free, study-skills courses and other services provided by the Student Development Centre, <http://www.sdc.uwo.ca>.

Evaluation

- The overall grade for the course, out of 100, will be calculated from the following:
 - Laboratory component (3 per experiment = 15 total)
 - Midterm test (35) on Thursday, May 21, 9:30 – 11:45 AM, NS 1
 - Cumulative final exam (50) on Saturday, May 30, 9:30 AM – 12:30 PM, NS 1
- **To pass the course, one must satisfy all of the following requirements:**
 1. Complete at least three of the five laboratory experiments;
 2. Obtain a minimum of 7.50 out of 15.00 on the laboratory component; and
 3. Obtain a minimum of 50 out of 100 in the whole course.
- Students who do not meet requirement 1 or 2 above will receive a course grade no higher than 45. Requirement 2 is *not* simply an average of only the completed experiments; it is calculated from all five experiments, each of which contributes a maximum of 3.00 to the total of 15.00.
- Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following website: <http://www.uwo.ca/univsec/handbook/appeals/scholoff.pdf>.
- Computer-marked multiple-choice tests and exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.
- It is Faculty of Science policy that a student who chooses to write a test or exam while ill is deemed medically fit to write and the student must accept the mark obtained. If you become ill during a test or exam, please contact your Dean's Office immediately after the test or exam.
- No electronic devices (calculators, phones, etc.) may be in your possession during test and exams.

Equal opportunity and evaluation policy

- All individuals involved in Chemistry 2213a, including your instructor and lab TAs, are there to help you succeed and achieve your desired grade. As university employees, they are committed to academic integrity and have high ethical and moral standards. To that end, they will treat all students equally. All students are evaluated using the criteria and weightings presented in this course outline; these criteria are based strictly on actual achievement, not on effort or how hard you tried. Claims of an excellent academic history, or of attendance in lectures, cannot be used to justify a higher grade in Chemistry 2213a, as they are not criteria for evaluation. The requirement for a higher grade in order to maintain a scholarship or to enter a specific program is also not a justifiable reason for a grade increase.
- We do not offer supplementary assignments, essays, tests, experiments, or other extra work of any sort as a means of increasing an individual's marks. It would simply be unfair to the other students.

Missed course components

- If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or supporting documentation to your Dean's Office as soon as possible and contact your instructor immediately. It is the responsibility of the student to make alternative arrangements, if applicable, with his or her instructor once the accommodation has been approved and the instructor has been informed. In the event of a missed final exam, a "Recommendation of Special Examination" form must be obtained from your Dean's Office immediately. For further information please consult the university's medical illness policy at http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf.
- A student requiring academic accommodation due to illness must use the Student Medical Certificate (https://studentservices.uwo.ca/secure/medical_document.pdf) when visiting an off-campus medical facility. For visits to Student Health Services, obtain a Records Release Form from the Dean's Office.
- Failure to complete an experiment, or write an exam, will result in a mark of zero for the missed experiment or exam, unless a valid reason has been approved by the Dean. **THERE ARE NO MAKE-UP LABS OR MIDTERM TESTS.** If you are excused from an experiment, the lab mark will be based on an average of the all other experiments. Being excused from the midterm will result in a final worth 85.

Lab schedule

- Sections 002 and 003 are 1:30 – 4:30 PM, while sections 004 and 005 are 5:30 – 8:30 PM.
- All labs are in Chem Building 111/112. Those arriving unprepared for an experiment will receive a zero for that experiment. You are deemed unprepared if you arrive without an individually completed pre-lab, late, or in inappropriate attire. For your protection, socks, fully closed shoes, full-length pants, safety glasses, and a lab coat are required. Refer to lab manual for complete details.

Monday	Tuesday	Wednesday	Thursday	Friday
May 11 Expt 1 Sections 2 + 4	12 Expt 1 Sections 3 + 5	13 Expt 2 Sections 2 + 4	14 Expt 2 Sections 3 + 5	15
18 Victoria Day	19 Expt 3 Sections 3 + 5	20 Expt 3 Sections 2 + 4	21 Expt 4 Sections 3 + 5	22
25 Expt 4 Sections 2 + 4	26 Expt 5 Sections 3 + 5	27 Expt 5 Sections 2 + 4	28	29

Approximate lecture schedule

- The midterm test will cover all material up to and including the class on May 20, unless otherwise announced by the course instructor.

Monday	Tuesday	Wednesday	Thursday	Friday
May 11 Administration	12 Structure & Bonding	13 Acids & Bases, Alkanes & Cycloalk.	14 Alkanes & Cycloalk., Alkenes & Alkynes	15 Alkene Reactions
18 Victoria Day	19 Stereochemistry	20 IR and ¹³ C-NMR Spectroscopy	21 Midterm test 9:30 – 11:45	22 Haloalkanes
25 Alcohols, Benzene & Deriv.	26 Amines ¹ H-NMR	27 Aldehydes and Ketones	28 Carboxylic Acids, Acid Derivatives	29 Extra day if needed; otherwise, no class

Resource Room schedule

- Chem 2213a operates a Resource Room, located in room 1205 of the Materials Science Addition, for those who wish to seek assistance with course material. There is no cost, and the setting is very informal. Simply drop in anytime between the hours listed below.
- The Resource Room sessions are hosted by Avedis Karadeolian, an experienced specialist in organic chemistry. During extremely busy periods, the instructor will also be there to assist him.

Monday	Tuesday	Wednesday	Thursday	Friday
May 11	12 None	13 3:00 – 6:00	14 3:00 – 6:00	15 1:00 – 4:00
18 Victoria Day	19 3:00 – 6:00	20 1:00 – 4:00 5:00 – 8:00	21 None	22 1:00 – 4:00
25 3:00 – 6:00	26 3:00 – 6:00	27 3:00 – 6:00	28 3:00 – 6:00	29 To be announced on WebCT