Course Outline: CHEM 2OD3 Year: Jan. 2017

Title: Synthesis and Function of Organic Molecules

Instructor: Dr. Ryan Wylie
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Content: Survey of fundamental reactions used to construct organic molecules, with emphasis on reaction mechanisms. The course includes an introduction to functional group interconversions and construction of complex organic molecules. Multi-functional molecules such as sugars and amino acids will be studied.

Description: Material will cover the structures, preparation and reactions of organic molecules containing alcohol, ether, aromatic, carbonyl and amino groups. We will cover chapters 12-14 and 17-25 of the textbook, inclusive. We will also continue to develop your expertise in structure determination using spectroscopic techniques.


# of Lectures: 3 Lectures/week

# of Tutorials: 1/week

# of Exams: 3

Evaluation: Assignments (4): 30%
First Midterm Exam: 15%
Second Midterm Exam: 15%
Final Exam: 40%

Final exam may only replace 1 Midterm. Assignments can’t be replaced by the final.

Times: Lectures: Tu-Th-Fr 8:30-9:20, MDCL 1309
   Tutorial: Tu 1:30 to 2:20 MDCL 1309
   Office Hours: We 10-11 ABB-261A

Dates: First Midterm Exam: Feb 7 6PM (2h)
   2nd Midterm Exam: Mar 21 6PM (2h)
   Final Exam: 2.5 h, scheduled by registrar
   Assignments: Jan 13, 27; Feb 10; Mar 3, 17, 31
Aids: The McMaster standard calculator ONLY will be allowed in examinations. Molecular models will also be allowed in tests, but must be packaged in clear plastic bags.

Web site: Avenue
Course description, assignments, answer keys, sample tests, etc.

Laboratory: Eye protection in accordance with the McMaster eyewear policy is MANDATORY. This means goggles must be worn at all times in the lab. Lab coats are recommended. Open shoes are not permitted. You must obey all safety instructions; failure to do so may result in loss of marks (a negative safety mark) and exclusion from the lab with a grade of zero. Reports will be written and submitted during the laboratory period.

Review: The knowledge you gained in CHEM 2OA3 (or equivalent) is assumed. You will be required to know and use information you learned in that course.

Modification: NOTE: The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.

Missed/ Late Work: All midterm tests, assignments and quizzes are optional. The final marks calculation will include the Final Exam and any additional work completed. Thus it is to your advantage to do all tests and assignments because they cannot negatively affect your final mark. There is therefore no need to complete an MSAF for these activities. Late assignments and quizzes will be penalized at the rate of 20% for day one, and 50% for day 2. LATE ASSIGNMENTS AND QUIZZES SUBMITTED BEYOND 48 HOURS WILL NOT BE ACCEPTED!

Missed labs: If you are absent from the university for a minor medical reason, lasting fewer than 5 days, you may report your absence, once per term, without documentation, using the McMaster Student Absence Form. Absences for a longer duration or for other reasons must be reported to your Faculty/Program office, with documentation, and relief from term work may not necessarily be granted. When using the MSAF for labs, send the report of your absence to bahunj@mcmaster.ca. You must then contact the lab coordinator (Greg Bahun) immediately (normally within 2 working days) by email to learn what relief may be granted for the work you have missed, and relevant details such as revised deadlines, or time and location of a make-up lab. Please note that the MSAF may not be used for term work worth 30% or more, nor can it be used for the final examination.
Relief: Provided you file the MSAF or other documentation accepted by the University, then you are entitled to complete the lab in a make-up period. You MUST complete all labs, and it is YOUR responsibility to arrange a suitable time. Available times are subject to approval by the lab coordinator, and may include working in the CHEM 2OB3 lab while the missed lab is still in progress, or completing the lab in the last week of term.

Academic Dishonesty: Academic dishonesty is not qualitatively different from other types of dishonesty. It consists of misrepresentation by deception or by other fraudulent means. In an academic setting this may include any number of forms such as: copying or the use of unauthorized aids in tests, examinations and laboratory reports; plagiarism, i.e., the submission of work that is not one's own or for which previous credit has been obtained, unless the previously submitted work was presented as such to the instructor of the second course and has been acceptable for credit by the instructor of that course; aiding and abetting another student's dishonesty; giving false information for the purposes of gaining admission or credit; giving false information for the purposes of obtaining deferred examinations or extension of deadlines; and/or forging or falsifying McMaster University documents.

Academic dishonesty can result in serious consequences, e.g. a grade of zero, loss of credit with a notation on the transcript, and/or suspension or expulsion from the University. It is YOUR responsibility to understand what constitutes academic dishonesty.
For more information, see:
http://www.mcmaster.ca/senate/academic/ac_integrity.htm

In CHEM BIO 2OD3, ALL cases of academic dishonesty will be prosecuted to the maximum penalty allowed.

Copyright policy: In this course you will have access to material that is subject to copyright laws. This includes (but is not limited to) the textbook, solutions manual and all resources developed by the instructors such as lab manuals, demonstration videos, quizzes, assignments, tests, class notes and class slides. You are not allowed under any circumstances to share or redistribute this material in any printed form without the explicit written consent of the copyright holder. This includes posting any course material on Internet bulletin boards, course repositories, social networks, etc..