Introductory Organic Chemistry I

Syllabus

Course Number Term Session Prerequisites	SC/CHEM 2020 3.0 Sections A, B, C Fall 2015-2016 CHEM 1000 3.00 and CHEM 1001 3.00, or with permission
Learning Outcomes	This is a challenging introductory course in organic chemistry that will introduce you to the fascinating functional groups and reactions that comprise the building blocks of life. It is our hope that you will develop an appreciation for the elegance of the chemistry involved and to understand the links between the material taught in class as well as in the lab, and the relevance to related disciplines such as biochemistry and medicine. Being able to succeed in organic chemistry involves more than just rote memorization – it also involves recognizing patterns and being able to predict reactivity based on what you've learned in class.
Course Directors	Dr. Derek Jackson (Sections A and C) Office: CB 452 Office Hours: TBA derekj@yorku.ca Dr. Raji Iyer (Section B) Office: CB 448 Office Hours: TBA riyer@yorku.ca
Lab Coordinator	Ms. Olga Girina Office: CB 308 ogirina@yorku.ca
Meeting Times	Section A Lecture MF 1:00, 90 min, ACW 206 Tutorial F 11:30, 60 min, ACE 102
	Section B Lecture MF 1:00, 90 min VH B Tutorial F 11:30, 60 min, VH B
	Section C Lecture TR 5:30, 90 min, CLH D Tutorial F 10:30, 60 min, CLH D
	NOTE: Midterm examinations will be held during tutorial time. DO NOT double-book yourselves during these times . You must write the midterm in the appropriate time and room you are normally scheduled in.

Laboratory	3 hour sessions at variable times during the week, depending on lab group. Labs start the week of September 14 and you will have labs every other week throughout the summer. A detailed lab schedule will be posted on moodle.
Learning Tools	Textbook: <i>Organic Chemistry</i> by L.G. Wade (custom edition for York University) will be supplied by the York bookstore. Included is an access code for the solutions manual online. NOTE: the 7 th edition of Wade is identical to the custom edition.
	Online Mastering: This fall, the textbook will come bundled with online access to the publisher's website for online activities. We will be using this access in the form of short quizzes throughout the semester (varied time limits). If you purchased the textbook separately, you can buy an online access code from the bookstore separately. Online access also includes an electronic copy of the 8 th edition of Wade although we will not be supporting it. We will be explaining how to use the online system during our first class as well as on moodle.
	Molecular Model Kit: Not required but extremely useful study aid, and strongly encouraged. Molecular model kits <u>are allowed</u> during midterm and final exams. The York bookstore will have kits in stock by two different suppliers.
	Lab Manual: You will get your lab manual during your first lab session from your TA (free of charge). Prior to the first lab session we will post the first sections of the manual on the course website so you have all the relevant material you need to prepare for your first lab.
Evaluation	Grading scheme for the courseOnline quizzes (x10, 8%)Throughout the term, your best 10/11 will countMidterm exam (~1 hour, 16%)October 9, 2015Midterm exam (~1 hour, 16%)November 6, 2015Laboratory experiments (20%)Throughout the termFinal exam (3 hours, 40%)Final exam period
	<u>Pass Requirements</u> : A passing grade of 50% for the total mark assessed as part of the lecture component (everything except the lab) is required to pass the course. A passing grade for the lab component requires attendance or medical exemption at every lab session and obtaining a minimum lab average of 66%. Students in lab 99 will have their laboratory component assessment from their previous attempt at the course.
	NOTE: There will be no makeup midterm exams . If a student misses the midterm for any reason, the weight of the missed midterm(s) will be shifted to the final exam. No documentation is required .

NOTE: The final exam schedule will not be known until October. However, all students are expected to be available for the **complete** final exam period and no travel or other arrangements should be made to start before the end of the exam period. This is to allow for weather emergencies and other reasons for rescheduling. A conflict with previously made travel arrangements is **not** an acceptable reason for missed final exams. Final grade Faculty of Science approved letter grades NOTE: Numerical grades are only guides for assigning of final grades. The course director retain the prerogative on how to use numerical grades to assign letter grades. Exam and laboratory marks are made available to students, however a final numerical mark is not disclosed to the student. There will be no extra credit assignments granted. Notes on Labs Unless a student has a lab exemption (lab 99) or partial lab exemption (arranged by the lab coordinator), attendance at laboratory sessions is mandatory. Assessment of the laboratory component of the grade is as outlined in the lab manual. Absences will result in a grade of zero for a particular lab, unless for a justifiable reason (e.g. illness, family emergency, traffic accident, etc.) and with appropriate documentation (doctor's note, traffic report, etc.) Please be advised that we will followup on any documentation provided and that the course director retains discretion on allowing make-up laboratories. In the event that a make-up lab is allowed, this will be coordinated by Ms. Olga Girina, and the student must make him or herself available for the assigned make-up period. Late lab reports will be penalized at the rate of 10% per day including weekends. Students may incur penalty for one weekend day only by submitting a copy to turnitin.com on Saturday, followed by an identical hard copy to their TA on the following Monday. There will also be no penalty for students who supply appropriate documentation to the Lab Coordinator as soon as possible after the due date. If lateness is the result of a medical illness, the documentation must specify an extended period of incapacitation, not just the due date. Course Content The course material follows the sequence of chapters in Organic Chemistry by L.G. Wade (subject to change). For a detailed list of textbook sections that we will likely cover, please refer to the relevant document posted on the course website. Chapter 1 Introduction and Review Chapter 2 Structure and Properties of Organic Molecules Chapter 3 Structure and Stereochemistry of Alkanes Chapter 4 Study of Chemical Reactions Chapter 5 Stereochemistry Chapter 6 Alkyl Halides Chapter 7 Alkenes: Structure and Synthesis Chapter 8 **Reactions of Alkenes** Chapter 9 Alkynes Chapter 10 Structure and Synthesis of Alcohols **Reactions of Alcohols** Chapter 11

Important Information for All Students:

Students who opt out of using Turnitin.com must submit an electronic version of their reports to their instructor by the same deadline. Supporting documentation may be requested and other means of plagiarism detection may be used.

Students are required to make themselves aware of school policies relating to Academic Honesty and Integrity, Access, Religious Accommodation, Student Conduct and other matters. Plagiarism and other academic offenses will be sanctioned to the fullest extent in accordance with university and Faculty policies. A summary of these policies can be accessed at

http://www.yorku.ca/secretariat/senate/committees/ascp/documents/CourseInformationForStudentsAugust 2012.pdf