

CHEM 3401 Syllabus Revision

Dalhousie has issued the following directives:

- All in-person classes/labs/exams will not resume this term
- Instruction will be paused March 16-20
- Instruction (content delivery) will resume (remotely) Monday March 23rd and end on April 6th as originally scheduled.
- Exams will not be held in person

As such, it is necessary to revise the course content and assessments, including the final exam for this class. The purpose of this document is to communicate these revisions in a clear and concise manner. This document also serves as a formal revision to the course syllabus.

Schedule of CONTENT Coverage

Week of...	Original course content/coverage	Revised course content/coverage
March 16-20	Heterocyclic Synthesis	
March 23-27	Pericyclic Reactions	Heterocyclic Synthesis
March 30-Apr 6	Heteroatom Chemistry	Pericyclic Reactions

ORIGINAL Course ASSESSMENTS (weighting should equal 100%)

Component (including exam if relevant)	Format	Weighting	Original Due Date	Completed?
Assignment 1	Problem set	2.5 %	Jan 31st	Yes
Midterm 1	In-class	20 %	Feb 12th	Yes
Assignment 2	Problem set	2.5 %	Mar 9th	Yes
Midterm 2	In-class	20 %	Mar 18th	No
Lab	Laboratories	20 %	See manual	In Part
Final Exam	Scheduled by Registrar	35 %	Apr 20th	No

REVISED Course ASSESSMENTS (weight should equal 100%)

Component (including exam if relevant)	Format	Weighting	Revised Due Date
Assignment 1	Problem set	2.5 %	Completed
Midterm 1	In-class	20 %	Completed
Assignment 2	Problem set	2.5 %	Completed
Midterm 2	Remote (email/ Brightspace)	20 %	March 25th
Lab	See Brightspace	20 %	See below
Final Exam	Remote (email/ Brightspace)	35 %	April 20 th

ORIGINAL Course POLICIES

Brief Absences: Attendance and participation are not components of evaluation in this course, so absences outside of tests or exams do not need to be accounted for. You will still be responsible for material in any lecture you missed. If you are ill or otherwise experiencing a personal emergency at the time of a midterm test, e-mail me when convenient to inform me of the situation, and fill out a Student Declaration of Absence form (available at Brightspace) at an appropriate time. Many circumstances can count as personal emergencies, and I am happy to help you to the best of my ability in accommodating unexpected life circumstances that may take priority over this course for you. While I do not generally offer make-ups for one missed midterm, in the case of a missed midterm due to illness or another prearranged situation, the weighting of the final exam will change to make up the missing marks. **Longer Term Absence:** In the case of situations that require a longer absence, please contact me to arrange accommodations to keep up with course material. The declaration of Absence form may only be used twice per class per semester, and accommodation of longer-term illnesses is best handled through involvement of the Assistant Dean (Student Affairs), Patricia Laws, from the Faculty of Science. **Missed Final Exam:** Students who are ill for the final exam and produce a medical certificate will have an opportunity to write a make-up final exam. Other absences from the final exam due to personal emergency will be accommodated at my discretion. **Accommodation:** The Student Declaration of Absence Form applies to acute illness, and is not intended as a replacement for seeking accommodation if you have learning differences that affect your ability to take an evaluation. Dalhousie provides expertise in this area: to arrange accommodations for tests or exams through the Advising and Access Services Centre, please see Accessibility on page 5. If you feel you require any assistance deciding if you need help, please let me know, and I will offer advice. **Late Assignments:** Late assignments will not be accepted after graded assignments have been returned to the class.

REVISED Course POLICIES

Course Delivery: The course will now be delivered remotely over Brightspace. Annotated lecture notes, and short videos describing the various concepts will be posted. For those students with internet access issues, the lecture notes will provide a complete discussion, and the videos will be non-essential elaboration of the concepts presented in the notes. **Evaluation:** The second midterm and exam will be administered remotely. An example of a remote midterm has been uploaded to Brightspace to demonstrate how I expect the midterm will be completed. The actual midterm and exam will be uploaded on Brightspace at or before 9:30 am on March 25th (Midterm 2) and at or before 8:30 am on April 20th (final exam). The answers will be returned to me per the instructions on the exam paper (by e-mail) by 11:30 am (2 hours) on March 25th for Midterm 2, and 12:30 pm (4 hours) on April 20th for the final exam. I will grade the submitted work and return the grades and comments to you by e-mail. I will not be able to answer questions about the material on midterm 2 by e-mail, but I will be able to do so during the course of the final exam. If you encounter technical problems during these process, please describe the technical problems to me by e-mail, and

we can attempt to troubleshoot. The extra hour for each evaluation is intended to allow for the extra time of uploading and e-mailing the answers. If for technical reasons your answers are not e-mailed to me by the time I have requested, please inform me of the issues, and complete the e-mailing as soon as possible.

Laboratory:

Laboratory Reports and Lab Mark CHEM 3401

Experiments will be submitted on a report form (template) you will download from BbLearn. All laboratory reports must be prepared using a word processor, and all structures and drawings must be drawn using a chemical structure drawing software such as Accelrys Draw, ACD/Chem Sketch, ChemDraw, etc.

Unless otherwise indicated on the laboratory marking scheme (see below), lab reports must be submitted as a .pdf file to your lab Instructor (rbarrios@dal.ca).

- **Experiment due on the week of March 16-20**, will be submitted on **March 23, 2020** (for all sections). If you need an extension or you are missing any information needed to complete this report, please contact your Instructor.
- The lab report for **Experiment 5** will be due on **March 27, 2020** (for all sections). If you need an extension or you are missing any information needed to complete this report, please contact your Instructor.
- **The last experiments you worked on** (Experiments 1, 2, 3 or 4, depending on your lab section) will not be completed but you will submit the corresponding lab report by **April 3, 2020**. Your lab Instructor will send you all the spectral data you need to complete your lab report. In the case of the other data that you didn't collect in the lab leave those sections of the lab report blank.
- The laboratory notebook will not be submitted as originally planned (please see changes in the marking scheme below)

Laboratory Marking Scheme and Lab Report Deadlines

Your laboratory mark will be 20% of the final mark in the class.

Laboratory marks will be awarded as follows (lab report deadlines are indicated in brackets):

Experiment 1: Hydroboration-Oxidation of Styrene <i>(Due two weeks after completion)</i>	3.5 pts
Experiment 2: Microwave Assisted Organic Synthesis (MAOS) <i>(Due two weeks after completion)</i>	3.5 pts
Experiment 3: Synthesis of <i>E,E</i> -1,4-Diphenyl-1,3-Butadiene The Wittig-Horner Reaction <i>(Due two weeks after completion)</i>	2 pts
Experiment 4: Synthesis of 2-Chlorotoluene The Sandmeyer Reaction <i>(Due two weeks after completion)</i>	2 pts
Experiment 5: Synthesis of an Unsymmetrical Biaryl Compound The Suzuki Reaction <i>(Due on March 27, 2020, as a pdf file)</i>	2 pts
Experiment 6: Synthesis of 4,4-Diphenylcyclohexenone	N/A

The Robinson Annelation <i>(Cancelled)</i>	
Prelab preparation, general lab organization and skills	3 pts
Laboratory Notebook <i>(Not to be submitted)</i>	N/A
TOTAL MARK OF EXPERIMENTS COMPLETED	16 pts
LAB MARK (Mark on line above scaled to 20 pts)	20 pts

Brief Absences: Since the remainder of the course is delivered remotely, the absence policy no-longer applies. The number of questions on the second midterm will be the same as the first one (five pages), however because it will be administered remotely, twice as much time will be given to account for the extra work of uploading it. **Missed Final Exam:** The final exam will be administered remotely via Brightspace. Four hours will be granted for possible technical issues. If the answers are not uploaded at the required time, you must inform me of the reasons why. Reasons related to illness, or logistical issues due to the COVID-19 crisis will be accommodated with a make-up exam, that will have an increased level of difficulty, but that will remain fair.

Accommodation: Students with accommodations should work with the resource center to find possible solutions. For students that are granted additional time on evaluations, I will accommodate for that, and do not need to know the specific reasons behind your accommodations.

IMPORTANT: Students concerned about the fairness of these changes may be considered for an **academic waiver** for withdraw. **If you feel that your circumstances make it impossible to complete this course**, please complete the Waiver of Academic Regulations and send to science@dal.ca. *Please note, waivers will not be considered after all academic requirements have been completed.*