



## REVISED COURSE OUTLINE FOR REMOTE LEARNING

To account for the necessary transition to remote learning from March 13 onward, adjustments have been made to assessment deadlines and requirements so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff). If you are unable to meet the deadlines or requirements specified, please connect with your course instructor to work out alternative dates/assessments.

### 1. **Course:** CHEM 353, Organic Chemistry II - Winter 2020

#### **Coordinator(s)**

| <b>Name</b>  | <b>Email</b>       | <b>Phone</b> | <b>Office</b> | <b>Hours</b>       |
|--------------|--------------------|--------------|---------------|--------------------|
| Dr. Ian Hunt | irhunt@ucalgary.ca | 220-6430     | SA 144G       | Open door, drop in |

#### **Section(s)**

Lecture 01: MWF 09:00 - 09:50 - Remote Learning (check with your instructor or coordinator for details)

| <b>Instructor</b> | <b>Email</b>       | <b>Phone</b> | <b>Office</b> | <b>Hours</b>       |
|-------------------|--------------------|--------------|---------------|--------------------|
| Dr. Ian Hunt      | irhunt@ucalgary.ca | 220-6430     | SA 144G       | Open door, drop in |

Lecture 02: MWF 10:00 - 10:50 - Remote Learning (check with your instructor or coordinator for details)

| <b>Instructor</b> | <b>Email</b>         | <b>Phone</b> | <b>Office</b> | <b>Hours</b> |
|-------------------|----------------------|--------------|---------------|--------------|
| Dr Ashley Causton | acauston@ucalgary.ca | 403 210-3968 | SA 144A       | TBA          |

#### **Course Site:**

D2L: CHEM 353 ALL-(Winter 2020)-Organic Chemistry II

[www.chem.ucalgary.ca/courses/350/index353-w20.html](http://www.chem.ucalgary.ca/courses/350/index353-w20.html)

**Note:** Students must use their U of C account for all course correspondence.

**Tutorials:** SA 204. **Start the week of January 13th 2020.**

**Laboratories:** See your timetable, **Start the week of January 13th 2020.**

### 2. **Requisites:**

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

#### **Prerequisite(s):**

Chemistry 351.

#### **Antirequisite(s):**

Credit for Chemistry 353 and either 355 or 357 will not be allowed.

### 3. **Grading:**

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar. In determining the overall grade in the course the following weights will be used:

OPTION 1 (Original)

| Component(s)               | Weighting % | Date                               |
|----------------------------|-------------|------------------------------------|
| Midterm exam               | 20          | March 12th 2020, 7-9pm (completed) |
| Final exam                 | 45          | <b>Cancelled</b>                   |
| Laboratory                 | 20          | based on expts 1-7 (completed)     |
| CAL (tutorial assignments) | 15          | based on A1-A3 (completed)         |

You will be awarded a Final examination grade equal to your MT grade.

OPTION 2

| Component(s)     | Weighting % | Date   |
|------------------|-------------|--|
| CAL A1-A3        | 30          | based on A1-A3 (completed)                       |
| Midterm exam     | 40          | March 12th 2020, 7-9pm (completed)               |
| Laboratory       | 20          | based on expts 1-7 (completed)                   |
| CAL A4 & A5      | 5           | 2 x 2.5% (dates to be confirmed)                 |
| Final assessment | 5           | Registrar scheduled (due Monday April 27th 2020) |

OPTION 3

The University has indicated that a CR/F option is available. As per an email from the Provost on March 22, 2020:

"We have made the decision to offer our students the choice to accept their final course grade or opt for Credit Received/Fail (CR/F) for each of their courses in the Winter 2020 term. The decision to allow this flexibility is a direct acknowledgement of this unprecedented situation. >While students will have the choice to accept their final letter grade or opt for CR/F, this decision does not affect the revised learning and assessment plans that academic staff have developed for their courses. We know how hard our academic staff have worked to redesign their courses to maintain high-quality learning experiences and to develop alternative assessments that contribute to student learning and ensure strong academic standards in their courses.

Once students receive their final grades, which are expected to be released to students by May 12, they can exercise their choice: to accept their grade or choose CR/F, for each course. Courses with 'Credit Received' or 'Fail' will not be included in GPA calculations. CR grades will still count towards their degree completion requirements. A grade of 'D' and better will qualify for the 'Credit Received' notation for undergraduate courses. For graduate courses, a grade of 'B-' or better will qualify for the 'Credit Received' notation. Students will have until May 22 to indicate their choice to the Registrar's Office through an online submission process. More details on this process will be made available shortly. This decision will apply to grades for the Winter 2020 term only."

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

|                           | A+      | A       | A-      | B+     | B      | B-      | C+      | C      | C-     | D+      | D       |
|---------------------------|---------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|
| <b>Minimum % Required</b> | 95.00 % | 85.00 % | 80.00 % | 75.00% | 70.00% | 65.00 % | 60.00 % | 55.00% | 50.00% | 45.00 % | 40.00 % |

The marks for each of the course components will be recorded as a numerical score. These numerical scores will be combined as shown above to arrive at the total numerical score which will then be converted to the letter grade that will be reported to the Registrar. In assigning the final course letter grade, the scale shown above will be used (e.g. A- starts at 80.00%, A at 85.00%).

Notes

- (1) A minimum 50% on the laboratory **is required** in order to satisfy the prerequisite requirement (i.e. C-) for further Science courses.
- (2) A minimum 40% on the midterm examinations is required in order to satisfy the prerequisite requirement (i.e. C-) for further Science courses or better.
- (3) Notes (1) and (2) mean that if a student scores below the minimum required % **neither** the laboratory **or**

the examination component, then the *maximum* course letter grade they can obtain in Chem 353 is a D+.

(4) Students who previously took Chem 353 here at the University of Calgary within the last two years [can be exempted](#) from repeating the laboratory work of the course if a laboratory grade of 75% or higher was obtained. However, students are still responsible for the laboratory content as it may be covered in other course work (e.g. examinations, assignments). The laboratory grade achieved on the previous attempt will be carried forward. Such students must contact the Chemistry Undergraduate Program Administrator, in the Chemistry Main Office, SA 229 before the drop date (January 23rd, 2020).

(5) Students registered with Student Accessibility Services will need to meet with the Course coordinator to make arrangements for accommodations associated with tutorials and/or the laboratory component.

#### 4. Missed Components Of Term Work:

The University has suspended requirements for students to provide evidence for reasons for absences so please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations. Please let your instructor know immediately if you are ill and cannot meet the deadlines specified.

Deferred examinations may ONLY be provided for the Final Examination and then only with the *approval of the Associate Dean* subject to the circumstances caused by the COVID-19 pandemic.

Please review current University guidelines as this might change as the COVID-19 situation develops.

Missed components of coursework will need to be reviewed as they pose significant challenges while there is a need to be fair to those that miss coursework and those that complete (or have completed) the coursework as scheduled.

#### 5. Scheduled Out-of-Class Activities:

The following out of class activities are scheduled for this course.

| Activity    | Location | Date and Time                       | Duration |
|-------------|----------|-------------------------------------|----------|
| CHEM 353 MT | TBD      | Thursday, March 12, 2020 at 7:00 pm | 2 Hours  |

**REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY.** If you have a conflict with the out-of-class-time-activity, please contact your course coordinator/instructor no later than **14 days prior** to the date of the out-of-class activity so that alternative arrangements may be made.

#### 6. Course Materials:

**Textbook:** No text book is required. We provide an Organic Chemistry eText on the course website.

If you wish to purchase a textbook because it better suits your individual learning style, "Organic Chemistry - Mechanistic Patterns" by Ogilvie et. al (published by Nelson) or "Organic Chemistry" by Jones (published by Norton) are good choices for our courses, otherwise ask your instructor.

Molecular Model kits: *very strongly* recommended (an allowed resource in examinations, available from the Bookstore).

**Chemistry 353 Laboratory Manual** (free, online on the [course website](#)).

A self-duplicating **Laboratory Notebook** (required, available from the Bookstore)

**Laboratory safety coat** (required, available from the Bookstore)

**Laboratory safety glasses** (required, available from the Bookstore)

**Padlock** (required to secure drawer of laboratory glassware and equipment (each student is assigned their own drawer))

**Top Hat account** (*available* from Top Hat, see [course website](#) for more details, free for UofC students)

## 7. Examination Policy:

All examinations are common to all sections, *i.e.* students in L01 and L02 write the same examinations. All the instructors are involved in determining content coverage, creating, selecting and reviewing examination questions, creating and reviewing grading rubrics and grading of student answers as well as reviewing the grades once collated.

See item 4 above related to deferred examinations.

Regular coursework activities to be completed after March 23rd 2020 will effectively be open book.

Any student with academic accommodations must be registered with Student Accessibility Services (see Section 12(f) below), and have reviewed their accommodations (as described on the SAS documents) **with the course coordinator** *ideally* within the first 15 days of the semester or at least 7 days before any scheduled activity for which accommodations are required.

Students should also read the Calendar, [Section G](#), on Examinations.

## 8. Approved Mandatory And Optional Course Supplemental Fees:

**Laboratory Breakage Fee and Late Check Out Fee**. This will not be applied in W2020 due to the exceptional circumstances.

## 9. Writing Across The Curriculum Statement:

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also [Section E.2](#) of the University Calendar.

## 10. Human Studies Statement:

If you agree, your course work may be used for research purposes. Your responses will remain anonymous and confidential. Grouped data (no individual responses) may be used in academic presentations and publications. Participation in such research is voluntary and will not influence grades in this course. Students' signed consent forms will be withheld from instructors until after final grades are submitted. More information will be provided at the time student participation is requested.

See also [Section E.5](#) of the University Calendar.

## 11. Reappraisal Of Grades:

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

- a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work form to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [I.1](#) and [I.2](#) of the University Calendar
- b. **Final Exam:** The student shall submit the request to Enrolment Services. See [Section I.3](#) of the University Calendar.
- c. **Laboratory work**, please see the Chem 353 W20 student laboratory manual for details. The student should first discuss the assigned grade with their laboratory TA. If this does not resolve the concern, then the appeal should be made to the Laboratory Coordinator. This will require that you provide the original work, and email a statement clearly stating the concern from your UofC email address to the Laboratory Coordinator. This needs to be done within the 10 business day period). The Laboratory Coordinator will then take the work to review it and provide appropriate feedback via UofC email.

## 12. Other Important Information For Students:

- a. **Mental Health** The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university

community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).

- b. **SU Wellness Center:** The Students Union Wellness Centre provides health and wellness support for students including information and counselling on physical health, mental health and nutrition. For more information, see [www.ucalgary.ca/wellnesscentre](http://www.ucalgary.ca/wellnesscentre) or call [403-210-9355](tel:403-210-9355).
- c. **Sexual Violence:** The University of Calgary is committed to fostering a safe, productive learning environment. The Sexual Violence Policy (<https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>) is a fundamental element in creating and sustaining a safer campus environment for all community members. We understand that sexual violence can undermine students' academic success and we encourage students who have experienced some form of sexual misconduct to talk to someone about their experience, so they can get the support they need. The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information regarding sexual violence to all members of the university community. Carla can be reached by email ([svsa@ucalgary.ca](mailto:svsa@ucalgary.ca)) or phone at [403-220-2208](tel:403-220-2208).
- d. **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties. Examples of academic misconduct may include: submitting or presenting work as if it were the student's own work when it is not; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; collaborating in whole or in part without prior agreement of the instructor; borrowing experimental values from others without the instructor's approval; falsification/ fabrication of experimental values in a report. **These are only examples.**
- e. **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- f. **Academic Accommodation Policy:** Students needing an accommodation because of a disability or medical condition should contact Student Accessibility Services in accordance with the procedure for accommodations for students with disabilities available at [procedure-for-accommodations-for-students-with-disabilities.pdf](#).

Students needing an accommodation in relation to their coursework or to fulfill requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Associate Head of the Department of Chemistry, Dr. Farideh Jalilehvand by email [ahugchem@ucalgary.ca](mailto:ahugchem@ucalgary.ca) or phone 403-220-5353. Religious accommodation requests relating to class, test or exam scheduling or absences must be submitted no later than **14 days** prior to the date in question. See [Section E.4](#) of the University Calendar.

- g. **Safewalk:** Campus Security will escort individuals day or night (See the [Campus Safewalk](#) website). Call [403-220-5333](tel:403-220-5333) for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- h. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPPA). Students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information, see [Legal Services](#) website.
- i. **Student Union Information:** [VP Academic](#), Phone: [403-220-3911](tel:403-220-3911) Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca). SU Faculty Rep., Phone: [403-220-3913](tel:403-220-3913) Email: [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca). [Student Ombudsman](#), Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca).
- j. **Internet and Electronic Device Information:** Unless instructed otherwise, cell phones should be turned off during class. All communication with other individuals via laptop, tablet, smart phone or other device is prohibited during class unless specifically permitted by the instructor. Students that violate this policy may be asked to leave the classroom. Repeated violations may result in a charge of misconduct.
- k. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](#)) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these surveys.

- I. **Copyright of Course Materials:** All course materials (including those posted on the course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be redistributed. Sharing these materials with anyone else would be a breach of the terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of student academic or [non-academic misconduct](#), in addition to any other remedies available at law.

### 13. Laboratory Information

Laboratory activities will begin the week of January 13th 2020. It is mandatory that students wear a laboratory safety coat and safety glasses at all times when working in the laboratory. Students wearing inappropriate attire will not be permitted to conduct experiments for safety reasons. The Chem 353 W20 laboratory manual can be found online (course website). You must consult the online laboratory manual prior to attending any of your scheduled laboratory periods and printout the required portion of the manual that outlines the procedures you will be doing.

Students who previously took Cheem 353 here at the University of Calgary within the last two years [can be exempted](#) from repeating the laboratory work of the course if a laboratory grade of 75% or higher was obtained. However, students are still responsible for the laboratory content as it may be covered in other course work (e.g. examinations, assignments). The laboratory grade achieved on the previous attempt will be carried forward. Such students must contact the Chemistry Undergraduate Program Administrator, in the Chemistry Main Office, SA 229 before the drop date (January 23rd, 2020).

#### Course Outcomes:

- Analyze and use the structural and electronic characteristics of the organic species to predict or rationalise properties and reactivity.
- Draw reasonable reaction mechanisms with appropriate curved arrows to account for the step by step bonding changes in organic reactions.
- Design and evaluate feasible syntheses of small organic molecules from simple starting materials.
- Classify molecules as being aromatic, non-aromatic or anti-aromatic to recognise and describe the implications this has on their stability, properties and reactivity.
- Analyse chemical information to determine a reasonable solution to a problem involving the reactions and / or spectroscopic data of organic species.
- Use experimental procedures to safely set-up, perform and clean up reactions that apply standard introductory organic techniques and report the outcomes.

Electronically Approved - Mar 23 2020 13:30

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#### Department Approval

Electronically Approved - Mar 23 2020 13:52

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#### Associate Dean's Approval for alternate final examination arrangements or remote learning and out of regular class-time activity