1. **Course**: CHEM 357, Industrial Organic Chemistry for Engineers - Winter 2022

   **Lecture 01**: MWF 10:00 - 10:50 in AD 142

   **Instructor** | **Email** | **Phone** | **Office** | **Hours**
   --- | --- | --- | --- | ---
   Dr. Rohen Prinsloo | rprinslo@ucalgary.ca | 403 220-8274 | SA 156 | Open Door

   To account for any necessary transition to remote learning in the winter 2022 semester, courses with in-person lectures, labs, or tutorials may be shifted to remote delivery for a certain period of time. In addition, adjustments may be made to the modality and format of assessments and deadlines, as well as to other course components and/or requirements, so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff).

   **In Person Delivery Details:**

   **Lectures** start Monday January 10th 2022.

   *During times where remote learning is mandated by university health-and-safety policy* lectures will be delivered through a combination of **asynchronous online videos** and **synchronous instructor Q&A** during the scheduled lecture timeslot. Lecture material will be delivered as a series of video modules that can be viewed at a time of your choosing via D2L and follow a prescribed schedule. In a typical week, at least one lecture time slot will be used by the instructor for virtual office hours and/or Q&A sessions and may be subject to change. Students are expected to work through the course content video modules and to be current for each of the synchronous lecture meetings. A schedule of progression with links to the etext will be available on the course website to help guide your studies.

   *When the university returns to primarily in-person learning* lectures will return to the scheduled **in-person delivery times** (tentatively scheduled for Feb 28).

   **Re-Entry Protocol for Labs and Classrooms:**

   To limit the spread of COVID-19 on campus, the University of Calgary has implemented safety measures to ensure the campus is a safe and welcoming space for students, faculty and staff. The most current safety information for campus can be found [here](#). **Online Delivery Details:**

   Some aspects of this course are being offered in real-time via scheduled meeting times. For those aspects you are required to be online at the same time.

   To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor’s permission.

   **Tutorials** start Tuesday January 18th 2022.

   Tutorials use Computer Assisted Learning (CAL) and follow a weekly time line and can be accessed online.

   Tutorial times will be asynchronous **unless** there is a prescheduled tutorial assignment for grades (see dates in section 3). Check the D2L site for the planned schedule of tutorial assignments. All prescheduled tutorial assignments for grades will be **asynchronous**, but students are required to complete the assignment **anytime between 6AM and 6PM on your scheduled/registered tutorial day**. We will be using Moodle to administer these assignment activities. During non-assignment weeks, the learning and practice materials can be accessed in an asynchronous manner.

   Note: The instructor will be available to assist students during a registered tutorial session via Zoom meetings for discussions of practice questions about course content. The coverage details and schedule for the tutorial assignments can be found on D2L.

   **Course Site:**

   D2L: CHEM 357 L01 - (Winter 2022) - Industrial Organic Chemistry for Engineers
**Note:** Students must use their U of C account for all course correspondence.

**Equity Diversity & Inclusion:**

The University of Calgary is committed to creating an equitable, diverse and inclusive campus, and condemns harm and discrimination of any form. We value all persons regardless of their race, gender, ethnicity, age, LGBTQIA2S+ identity and expression, disability, religion, spirituality, and socioeconomic status. The Faculty of Science strives to extend these values in every aspect of our courses, research, and teachings to better promote academic excellence and foster belonging for all.

The Chemistry EDI Committee acknowledges there are persistent barriers that prevent such accessibility and hinder our progress towards EDI. Our representatives (faculty, postdocs, graduate and undergraduate students) are committed to addressing any concerns and work towards proactive solutions that enact necessary change within the department. To submit anonymous questions, comments or concerns regarding EDI related issues, please reach out to our Associate Head EDI, Belinda Heyne (bjmheyne@ucalgary.ca)

2. **Requisites:**

   See section 3.5.C in the Faculty of Science section of the online Calendar.

   **Prerequisite(s):**
   Chemistry 201 or 211, and 203 or 213 or 209.

   **Antirequisite(s):**
   Credit for both Chemistry 357 and any of 351, 353 or 355 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:

<table>
<thead>
<tr>
<th>Course Component</th>
<th>Weight</th>
<th>Due Date (duration for exams)</th>
<th>Modality for exams</th>
<th>Location for exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tutorial assignments (4)†</td>
<td>40%</td>
<td>Ongoing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midterm</td>
<td>20%</td>
<td>Mar 09 2022 at 12:00 pm (50 Minutes)</td>
<td>in-person</td>
<td>In-class, AD142</td>
</tr>
<tr>
<td>Registrar Scheduled Final Exam</td>
<td>40%</td>
<td>Will be available when the final exam schedule is released by the Registrar</td>
<td>in person</td>
<td>Will be available when the final exam schedule is released by the Registrar</td>
</tr>
</tbody>
</table>

1 During the four graded-assignment weeks, your assignment must be completed anytime between 6AM and 6PM on your scheduled/registered tutorial day. Assessments are scheduled for the week of January 31, February 14, March 21 and April 4. (Tutorial assignments should only require 30 minutes each; however, each assignment will auto-submit after 50 minutes have elapsed). For any synchronous assessment, time will be adjusted for SAS students if needed. As well, accommodations for students facing a significant barrier to writing the assessment during the scheduled time window will be done on a case-by-case basis, e.g. different time zones, caregiving responsibilities, ability to secure an appropriate test-taking environment. Students who need accommodation for the midterm or final exam must contact the instructor at least 7 days in advance of the scheduled assessment.

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.

<table>
<thead>
<tr>
<th>Minimum % Required</th>
<th>A+</th>
<th>A-</th>
<th>A</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>95%</td>
<td>90%</td>
<td>85%</td>
<td>80%</td>
<td>75%</td>
<td>70%</td>
<td>65%</td>
<td>60%</td>
<td>55%</td>
<td>50%</td>
<td>45%</td>
</tr>
</tbody>
</table>

This course will have a Registrar Scheduled Final exam that will be delivered in-person and on campus. The Final Examination Schedule will be published by the Registrar's Office approximately one month after the start of the term. The final exam for this course will be designed to be completed within 2 hours.

Students will be expected to understand at every stage the material covered in all components of the course. In order to satisfy the prerequisite requirements (i.e., C-) for further Chemistry courses, a student must achieve a minimum 50% on the Final examination. A grade of D+ or below will result if a student scores below 50% on the
The University of Calgary offers a **flexible grade option**, Credit Granted (CG) to support student’s breadth of learning and student wellness. Faculty units may have additional requirements or restrictions for the use of the CG grade at the faculty, degree or program level. To see the full list of Faculty of Science courses where CG is not eligible, please visit the following website: [https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade](https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade)

### 4. Missed Components Of Term Work:

The university has suspended the requirement for students to provide evidence for absences. Please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations.

In the event that a student legitimately fails to submit any online assessment on time (e.g. due to illness etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date. Absences not reported within 48 hours will not be accommodated. If an excused absence is approved, one possible arrangement is that the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course. This option is at the discretion of the coordinator and may not be a viable option based on the design of this course.

4.1 A deferred examination will **only** be provided for the Final Examination for which a student must apply through their student centre. *This means there are no deferred midterms.*

4.2 Absences from any graded component (midterm, CAL assignments) must be reported to the course coordinator (Dr. Rohen Prinsloo) within 48 hours (email is fine). The time limit will be ignored in the case of emergency circumstances. Given the current situation, no official documentation beyond an email is required - but, if an absence is not reported it will result in a grade of zero for the missed component.

4.3 In addition to posting lecture content online, the following accommodations will be made to minimize the impact of health and safety related disruptions for students.

- **Midterm Examination.** Students who have excused absences from the midterm exam will have their midterm grade assigned as being equal to the grade obtained on the final exam
- **Tutorial.** If an excused absence is approved then your tutorial grade will be prorated based on your scores in the other tutorial quizzes.

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

There are no scheduled out of class activities for this course.

### 6. Course Materials:

**Textbook:** No textbook is required. We provide an Organic Chemistry e-text via the course website.

Chem 357 has access to a free online text book: [Organic Chemistry etext Contents (ucalgary.ca)](https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade)

If you wish to purchase a textbook because it suits your individual learning style, "Organic Chemistry" by Clayden, Greeves, Warren (published by Oxford University Press), "Organic Chemistry - Mechanistic Patterns" by Ogilvie et al., (published by Nelson) or "Organic Chemistry" by Jones (published by Norton) are good choices for our course. Otherwise, consult your instructor.

**Models kits are very strongly recommended** and should be available via the UofC Bookstore.

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam/Camera (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Stable internet connection.

For more information please refer to the UofC [ELeaning](https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade) online website.
7. **Examination Policy:**

“Exam conditions” : All examinations, midterms, assignments, quizzes etc. are closed book. Model kits and non-programmable calculators are allowed, a periodic table will be provided if required. No other aids including any form of “cheat-sheet” or “data” materials are allowed. Wireless devices and other electronic devices are not allowed.

Students should also read the Calendar, Section G, on Examinations.

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

There are no mandatory or optional course supplemental fees for this course.

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:**

Students will not participate as subjects or researchers in human studies.

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.

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 Services:** For more information, see www.ucalgary.ca/wellnesscentre or call 403-210-9355.

c. **Sexual Violence:** 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) or phone at 403-220-2208. The complete University of Calgary policy on sexual violence can be viewed at [https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Sexual-and-Gender-Based-Violence-Policy.pdf](https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Sexual-and-Gender-Based-Violence-Policy.pdf)

d. **Misconduct:** Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional Code of Conduct and promote academic integrity in upholding the University of Calgary’s reputation of excellence. Some examples of academic misconduct include but are not limited to: posting course material to online platforms or file sharing without the course instructor's consent; submitting or presenting work as if it were the student's own work;
submitting or presenting work in one course which has also been submitted in another course without the instructor’s permission; borrowing experimental values from others without the instructor's approval; falsification/fabrication of experimental values in a report. Please read the following to inform yourself more on academic integrity:

Student Handbook on Academic Integrity
Student Academic Misconduct Policy and Procedure
Research Integrity Policy

Additional information is available on the Student Success Centre Academic Integrity page

e. Academic Accommodation Policy:

It is the student’s responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf.

Students needing an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, by filling out the Request for Academic Accommodation Form and sending it to Dr. Yuen-Ying Carpenter by email vyscarpe@ucalgary.ca preferably 10 business days before the due date of an assessment or scheduled absence.

f. Freedom of Information and Privacy: This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). 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.

g. Student Union Information: VP Academic, Phone: 403-220-3911 Email: suvpaca@ucalgary.ca. SU Faculty Rep., Phone: 403-220-3913 Email: sciencerep@su.ucalgary.ca. Student Ombudsman, Email: ombuds@ucalgary.ca.

h. 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.

Course Outcomes:
- Develop an understanding of fundamental concepts of organic chemistry
- Understand how the properties of an organic material are linked to its structure

Electronically Approved - Jan 27 2022 17:22
Associate Dean's Approval