UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF CHEMISTRY
COURSE OUTLINE

1. **Course:** CHEM 209, General Chemistry For Engineers -- Winter 2018

Lecture 01: (TR, 12:30-13:45 in SB103)

Instructor Name	Email	Phone	Office	Hours
Vivian Mozol	vjmozol@ucalgary.ca	TBA	SA 144E	TBA

Lecture 02: (TR, 08:00-09:15 in ICT102)

Amanda Musgrove Richer	amanda.musgroveriche@ucalgary.ca	(403) 220-2745	SA 144F	TBA

Course Coordinator: Dr. Amanda Musgrove Richer (amanda.musgroveriche@ucalgary.ca)

Lab Coordinator: Dr. Roxanne Jackson (rjjackso@ucalgary.ca)

Laboratory start date: **January 8, 2018**. Tutorial start date: January 15, 2018

Course Site:

D2L: CHEM 209 ALL-(Winter 2018)-General Chemistry For Engineers

Department of Chemistry: Science A 229, 403 220-5341, chem.info@ucalgary.ca

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

2. **Prerequisites:**

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

> Chemistry 30 (or Continuing Education - Introduction to Chemistry) and one of Pure Mathematics 30 or Mathematics 30-1 or Mathematics II (offered by Continuing Education). Mathematics 31 is strongly recommended.
> Credit for Chemistry 209 and any of 201, 203, 211, 213 and 301 will not be allowed.

http://www.ucalgary.ca/pubs/calendar/current/chemistry.html#6509

Note: The calendar description and the Faculty of Science policy on prerequisites and antirequisites is described in section 3.5 C. of the online University Calendar (http://www.ucalgary.ca/pubs/calendar/current/sc-3-5.html). Students are responsible to ensure that they meet all prerequisite requirements for each course in which they are registered. Students who do not meet these requirements will be deleted from the course.

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:

Component(s)	Weighting %	
Tutorial Assignments (9)	20%	
Laboratory Experiments (5)	20%	
Midterm Examination	20%	(Wed. Feb. 14, 7-9 PM)
Final Examination	40%	(To be scheduled by the Registrar)

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;

Letter Grade	A+	A	A-	B+	B	B-	C+	C	C-	D+	D
Minimum Percent Required	92.0	86.0	82.0	78.0	74.0	70.0	66.0	62.0	58.0	54.0	50.0

In order to achieve the prerequisite requirements (i.e., C-), a student must meet ALL of the following requirements:

1. attend and submit the worksheets or reports for no less than three of the laboratory experiments, *and*
2. attend and submit the worksheets or quizzes for no less than seven of the tutorial activities, *and*
3. achieve a minimum 50% in the laboratory component, *and*
4. achieve a minimum 50% in the tutorial component, *and*
5. achieve a minimum 50% weighted average on the examinations (Midterm and Final).

This means that if a student scores below 50% in either the laboratory, tutorial, or the examinations, then the maximum grade they can obtain in CHEM 209 is a D+.

4. **Missed Components of Term Work:**

The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in Section 3.6. It is the student's responsibility to familiarize himself/herself with these regulations. See also Section E.3 of the University Calendar

There are no deferred Midterm/ term test examinations. In the event that a student misses the midterm or any course work due to illness then an official medical note will be required. Absences must be reported **within 48 hrs**. If a student misses the midterm or course work for other reasons, then analogous documentation will be required. The course coordinator will need to see the original documentation (not electronic copy) for review / decision and keep it (or a copy) for their records. The documentation must be provided to the course coordinator **within 15 days** of the date of the midterm or course work in order for an excused absence to be considered. If an excused absence is approved, then the percentage weight of a legitimately missed midterm examination *will be pro-rated among the remaining components of the course*(see Section E.3 of the University Calendar).

There is no make up lab for CHEM 209. If a student missed a tutorial or a laboratory experiment for non-legitimate reasons (e.g. vacation, incomplete or insufficient score in pre-lab assignment), and did not perform the experiment, the contribution of that experiment in the final course grade will be zero. If a student misses a tutorial or a laboratory experiment for legitimate reasons (e.g. varsity sports or medical emergencies) they are required to submit an online request for an excused absence (accessed via the course management system, D2L) **within 48 hours** of the missed activity. Supporting documentation must be provided.

5. **Scheduled out-of-class activities:**

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

CHEM 209 Term Test , scheduled for 2 hrs on Wednesday February 14 2018 at 7:00 pm

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.

Rooms will be announced before the midterm exam date.

6. **Course Materials:**

Optional Textbook(s):

Silberberg M, Amateis P, Lavieri S, Venkatsewaran R, Chemistry: The Molecular Nature of Matter and Change, 2nd Canadian Ed.; , McGraw-Hill Ryerson

Other course materials:

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  - Schulich-approved (non-programmable) scientific calculator
  - 3 blue laboratory notebooks (available for purchase at the Bookstore)
  - Approved laboratory coat

7. **Examination Policy:**

   Students must use a Schulich School of Engineering sanctioned calculator for quizzes, tests, and examinations. No other aids are allowed during examinations. Students should also read the Calendar, Section G, on Examinations.

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

   Laboratory Breakage Fees and Locker Check-out: The Department of Chemistry has a laboratory glassware breakage fee. At the start of the course, each student is assigned a locker and checks-in to establish that they have a complete set of usable glassware. By signing for check-in, a student agrees that they are now responsible for the glassware until check out. Any equipment that is missing, unusable or has been replaced during the semester will be charged to the student. All students, even those who withdraw early from the course must check out of the laboratory before the last day of lectures [**April 13th, 2018**]. Any student who fails to check out before the last day of lectures for the term will be assessed a charge of $30.00. If this fee is not paid by the payment deadline (Jan 31 for Fall courses, April 30 for Winter courses, July 15 for Spring courses), an additional $10.00 administrative fee will be charged and university services (registration, transcripts, etc.) may be withheld.

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 those reports. 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.

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.

    1. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **15 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 immediately submit the Reappraisal of Graded Term work form to the department in which the course is offered. The department will arrange for a re-assessment of the work if, and only if, the student has sufficient academic grounds. See sections I.1 and I.2 of the University Calendar
    2. **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. **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**.

    b. **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on assembly points.

    c. **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-accomodations-for-students-with-disabilities_0.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 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: http://www.ucalgary.ca/pubs/calendar/current/e-4.html

d. **Safewalk:** Campus Security will escort individuals day or night (www.ucalgary.ca/security/safewalk/) . Call 403-220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.

e. **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 also www.ucalgary.ca/legalservices/foip.

f. **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: suvpaca@ucalgary.ca.

g. **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.

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. **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 or call 403-210-9355.

13. **Laboratory Information**

Laboratory activities will begin on **January 8, 2018** with check-in for those in odd-numbered lab sections. Check-in begins January 15th for those in even-numbered lab sections. Consult your Student Centre schedule to confirm what days and times you should attend lab.

It is mandatory that students wear a lab coat and safety glasses at all times when working in the lab, as well as being properly dressed (see the course website for guidelines). Students wearing inappropriate attire for the laboratory will not be permitted to conduct experiments for safety reasons. Lab coats may be purchased at the University Bookstore. Safety glasses and gloves are provided in the lab.

The manual can be found online on the course D2L site. You must consult the online laboratory manual prior to attending any of your scheduled lab periods and print out the required portion of the manual that outlines the procedures you will be doing.

Students repeating the course within the last two years can be exempted from the Laboratory Component of the Course if a grade of 75% or higher was obtained. The lab 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 19, 2018).**

14. **Laboratory Safety Course**

All undergraduate students taking chemistry laboratories are required to complete an introductory course (approx. 50 minutes) on laboratory safety. This course is presented in an online format. **The Safety Course must be completed before the first laboratory experiment.** It is not required for the check-in activity. Students who do not complete the safety course will be denied admission to the laboratories. While it will not count directly to the final grade, the material is considered to be part of the course and is therefore appropriate for inclusion into laboratory pre-labs and exams. Students who have previously completed the Chemistry Safety Course at the University of Calgary in the past five years are NOT required to repeat it.

Department Approval:	Electronically Approved	**Date:** 2017-12-20 08:52
Associate Dean's Approval for out of regular class-time activity:	Electronically Approved	**Date:** 2017-12-20 09:55