



UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF CHEMISTRY
COURSE OUTLINE
WINTER 2017

1. **COURSE: CHEMISTRY 201, General Chemistry: Structure & Bonding**

LEC	DAYS	TIME	ROOM	INSTRUCTOR	OFFICE	EMAIL
L01	MWF	11:00-11:50	SB 103	Dr. E. Sullivan	SA 144D	ersulliv@ucalgary.ca
L02	MWF	12:00-12:50	SB 103	Dr. E. Sullivan	SA 144D	ersulliv@ucalgary.ca
L03	TR	8:00-9:15	SB 103	Dr. V. Mozol	SA 144E	vjmozol@ucalgary.ca

Laboratories start January 17th, 2017, Tutorials start January 24th, 2017.

Course, Laboratory and Tutorial Coordinator: Dr. Erin Sullivan (SA 144D, ersulliv@ucalgary.ca)

Course website d2l.ucalgary.ca: CHEM 201 -ALL - (Winter 2017) - General Chemistry: Structure and Bonding

Departmental Office: SA 229, 403-220-5341, info@chem.ucalgary.ca.

2. **Prerequisites:** Chemistry 30 (or Continuing Education - Introduction to Chemistry) and one of Pure Mathematics 30 or Mathematics II (offered by Continuing Education). Mathematics 31 is strongly recommended. (<http://www.ucalgary.ca/pubs/calendar/current/chemistry.html#6507>).
3. **Grading:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Laboratory Experiments	25%
Tutorial activities	10%
Term Test 1	10% (January 30 th 2017, 7-9pm)
Term Test 2	15% (March 6 th 2017, 7-9pm)
Final Examination	40% (To be scheduled by the Registrar)

The student's average percentage score for the various components listed above will be combined with the indicated weights to produce an overall percentage for the course, which will determine the course letter grade. The conversion between final course percentage and letter grade is given below:

Grading Scale:

A+	A	A-	B+	B	B-
95% - 100%	87% - 94.99%	82% - 86.99%	77% - 81.99%	72% - 76.99%	66% - 71.99%

C+	C	C-	D+	D	F
62% - 65.99%	58% - 61.99%	54% - 57.99%	50% - 53.99%	45% - 49.99%	< 44.99%

Notes:

In order to achieve the prerequisite requirements (i.e., C-) for further Science courses, a student must meet **all** of the following requirements:

- (1) submit no less than three of the laboratory reports, and
- (2) achieve a minimum 50% in the laboratory grading, and
- (3) achieve a minimum 50% weighted average on the examinations (Term Tests and Final).

This means that if a student scores below 50% in either the laboratory component or the examinations, then the *maximum* grade they can obtain in CHEM 201 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.6](#) of the University Calendar.

There are no deferred 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 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 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).

If a student misses an experiment, they are required to fill out the online Make up Lab Request Form in the course management system (D2L). Priority for the makeup laboratory will be given to those with supporting documentation.

If a student missed an experiment or a make-up lab 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.

5. **SCHEDULED OUT-OF-CLASS ACTIVITIES.** The term tests will be held out of class on the EVENINGS of Monday January 30th, 2017 and Monday March 6th, 2017, 7:00-9:00pm (rooms TBA).

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a conflict with this out-of-class-time-activity, please inform your instructor by Tuesday January 24th 2017 (for term test 1) and Monday, February 27th, 2017 (for term test 2), so that other arrangements can be made for you.

6. **COURSE MATERIALS:** (recommended/required available in the Bookstore or purchased online)
- Textbook ("Chemistry and Chemical Reactivity", Ninth Edition by J.C. Kotz, P.M. Treichel and J.R. Townsend, Books/Cole CENGAGE Learning, 2015 (available in print or electronic form), plus printed access code for eLibrary and the Student Solutions Manual).
 - Three Blue Chemistry Laboratory Notebooks (required)
 - Lab coat & safety glasses (required)
 - Model Kit (Molymod recommended)
 - A non-programmable scientific calculator (Casio FX 260 or equivalent).

OTHER OPTIONAL MATERIALS: Students may opt to participate in lecture question activities using TopHat. This will be described in detail on the first day of class.

7. **Examination Policy:** All sections will write the same examinations. The questions are based on input from all instructors for the course. Special Needs Students must be registered with Student Accessibility Services (see section 11(c) below), and must identify themselves to their instructor as soon as possible.

During exams students are allowed to bring only pencils, pens, erasers, their ID card, a model kit and a non-programmable calculator. If in doubt, check your calculator with your instructor prior to the midterm exam (the programmable TI calculators from high school are not acceptable). Students should also read the calendar, [Section G](#), on Examinations.

8. **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. 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 last day of the final examination period of the term, an additional \$10.00 administrative fee will be charged and university services (registration, transcripts, etc.) may be withheld. *The last day of withdrawal from any half-year course is stated in the 2016-2017 Calendar as Wednesday, April 12th, 2017* (<http://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html>).
9. **Writing across the curriculum statement:** e.g. "In this course, the quality of the student's writing in laboratory reports will be a factor in the evaluation of those reports." See also [Section E.2](#) of the University Calendar.
10. **Human studies statement:** If you consent, your coursework may be used for educational research purposes once the course is over. Individual responses will remain anonymous and confidential. Grouped data will 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 course instructors until after final grades are submitted. More information will be provided at the time student participation is requested. See Section E.5 of the University Calendar.

11. Reappraisal of Grades: 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:** A student who feels that a piece of graded term work (term paper, essay, test, etc.) has been unfairly graded, may have the work re-graded. The student shall discuss the work with the Instructor within 15 days of being notified about the mark. If not satisfied, the student shall immediately submit the *Reappraisal of Term work Grade* form to the Associate Head of Chemistry, Dr. Farideh Jalilehvand (ahugchem@ucalgary.ca), who will arrange for a reassessment of the work if, and only if, the student's argument is valid. Note: Students should attempt to present their rationale as effectively and as fully as possible. Mere dissatisfaction with a decision is not sufficient grounds for the appeal of a grade, or other academic decision. See sections [I.1](#) and [I.2](#) of the University Calendar.
- (b) **Final Exam:** A student wishing a reappraisal of the final grade should contact the instructor. If not satisfied, the student shall submit the request to the 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.3](#) Student Misconduct to inform yourself of definitions, processes and penalties.
- (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 http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.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, preferably in writing, to the Associate Head 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 (<http://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 (FOIPPA). As one consequence, 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 <http://www.ucalgary.ca/secretariat/privacy>.
- (f) **Student Union Information:** VP Academic Phone: 403-220-3911 Email: suvpaca@ucalgary.ca
SU Faculty Rep. Phone: 403-220-3913 Email: science1@su.ucalgary.ca, science2@su.ucalgary.ca and science3@su.ucalgary.ca;
Student Ombuds Office: 403-220-6420 Email ombuds@ucalgary.ca <http://ucalgary.ca/provost/students/ombuds>
- (g) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- (h) **U.S.R.I.:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference - please participate in USRI Surveys.

- (i) **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 wet experiment.*** Students who do not complete the safety lessons will subsequently 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 & is therefore appropriate for inclusion into laboratory prelabs & exams.
- (j) **LABORATORY AND TUTORIAL INFORMATION:** Along with the Lecture component of the course students are scheduled for tutorials and laboratory experiments in alternating weeks. The schedule is arranged such that in any given week all students in the entire course will perform either a tutorial or a laboratory experiment. *Laboratory Experiments begin the week of January 16th, 2017 and Tutorials begin the week of January 23rd, 2017. Consult your Peoplesoft schedule for exact times and room assignments.*

Laboratory Experiments. The Laboratory Manual is available online through the course D2L website. You are expected to print out the portion of the manual you will need for any experiment you will be doing, and complete the online pre-laboratory assignment prior to attending any of your scheduled lab periods. The grade for each experiment will be based on your pre-laboratory assignment, your attendance in the laboratory, and the required experimental report. Students wearing inappropriate laboratory attire or with incomplete pre-laboratory assignments (<50%) will not be permitted to conduct experiments for safety reasons (see online lab manual for details).

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. Such students must contact the Chemistry Undergraduate Program Administrator, Ms. Jin Meng, in the Chemistry Main Office, SA 229 before the drop date (January 20th, 2017).

Tutorials. You must attend your assigned time slot. During each 75 minute tutorial, students work collaboratively in small groups on a series of problems before writing a quiz. Tutorials allow students to meet and work closely with other students and a member of the Department. There are pre-tutorial assignments (found on the course D2L website) that must be completed before attending any tutorial. The lowest obtained non-zero tutorial grade can be replaced by the in-class question portion of the lecture (TopHat, see item 6).

Department Approval: Approved by Department Head

Date: December 16, 2016

Assistant Dean's Approval for
out of regular class-time activity: Approved by Assistant Dean

Date: December 22, 2016