

**UNIVERSITY OF CALGARY  
FACULTY OF SCIENCE  
DEPARTMENT OF CHEMISTRY  
COURSE OUTLINE  
FALL 2017**

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

LEC	DAYS	TIME	ROOM	INSTRUCTOR	OFFICE	EMAIL
L01	MWF	13:00-13:50	SB 103	Dr. E. Sullivan	SA 144D	<a href="mailto:ersulliv@ucalgary.ca">ersulliv@ucalgary.ca</a>
L02	MWF	14:00-14:50	SB 103	Dr. E. Sullivan	SA 144D	<a href="mailto:ersulliv@ucalgary.ca">ersulliv@ucalgary.ca</a>
L03	TR	9:30-10:45	SB 103	Dr. V. Mozol	SA 144E	<a href="mailto:vmozol@ucalgary.ca">vmozol@ucalgary.ca</a>

Course, Laboratory and Tutorial Coordinator: Dr. Erin Sullivan (SA 144D, [ersulliv@ucalgary.ca](mailto:ersulliv@ucalgary.ca))  
 Course website [d2l.ucalgary.ca](http://d2l.ucalgary.ca): CHEM 201 -ALL - (Fall 2017) - General Chemistry: Structure and Bonding

Laboratories start September 19<sup>th</sup>, 2017, Tutorials start September 26<sup>th</sup>, 2017.

Departmental Office: Room SA 229, Tel: (403) 220-5341, e-mail: [chem.undergrad@ucalgary.ca](mailto:chem.undergrad@ucalgary.ca)

To avoid IT problems, it is recommended that students use their U of C account for all course correspondence.

- 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% <b>(October 23<sup>rd</sup> 2017, 7-9pm)</b>
Term Test 2	15% <b>(November 20<sup>th</sup> 2017, 7-9pm)</b>
Final Examination	40% <b>(To be scheduled by the Registrar)</b>

The marks for each of the course components will be recorded as numerical scores and combined to arrive at a final numerical score, which when converted to a letter grade will be reported to the Registrar. The conversion between final course percentage and letter grade is given below:

**Grading Scale:**

<b>A+</b>	<b>A</b>	<b>A-</b>	<b>B+</b>	<b>B</b>	<b>B-</b>
<b>95% - 100%</b>	<b>87% - 94.99%</b>	<b>82% - 86.99%</b>	<b>77% - 81.99%</b>	<b>72% - 76.99%</b>	<b>66% - 71.99%</b>
<b>C+</b>	<b>C</b>	<b>C-</b>	<b>D+</b>	<b>D</b>	<b>F</b>
<b>62% - 65.99%</b>	<b>58% - 61.99%</b>	<b>54% - 57.99%</b>	<b>50% - 53.99%</b>	<b>45% - 49.99%</b>	<b>&lt; 44.99%</b>

**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 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 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 October 23<sup>rd</sup>, 2017 and Monday November 20<sup>th</sup>, 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 October 10<sup>th</sup> 2017 (for term test 1) and Monday, October 30<sup>th</sup>, 2017 (for term test 2), so that other arrangements can be made for you.

6. **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.

7. **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.

8. **Laboratory Information:** Laboratory activities will begin the week of September 19<sup>th</sup>, 2017. It is mandatory that students wear a lab coat and safety glasses at all times when working in the lab. Students wearing inappropriate laboratory attire will not be permitted to conduct experiments for safety reasons. The manual can be found online (course D2L site). You must consult the online laboratory manual prior to attending any of your scheduled lab periods and printout 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 (September 22<sup>nd</sup>, 2017)**.

- 9. 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. 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 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.
- 10. 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 December 8<sup>th</sup>, 2017. 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.
- 11. Writing across the curriculum statement:** e.g. "For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) will be a factor in the evaluation of those reports." See also [Section E.2](#) of the University Calendar.
- 12. 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 also [Section E.5](#) of the University Calendar.
- 13. 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 either being notified about the mark, or of the item's return to the class. If not satisfied, the student shall immediately submit the *Reappraisal of Term work Grade* form to the Associate Head of Chemistry, Dr. Farideh Jalilvand ([ahugchem@ucalgary.ca](mailto: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 first attempt to review the final assessment with the department offering the course. If not satisfied, the student shall submit the request to the Enrolment Services. See [Section I.3](#) of the University Calendar.
- 14. 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](#) on Student Misconduct to inform yourself of definitions, processes and penalties. Examples of academic misconduct include but are not limited to: 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 knowledge; borrowing experimental values from others without the instructor's approval; falsification/ fabrication of experimental values in a lab report; copying materials from written or electronic resources; non-authorized recording of lectures.
- (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](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 fulfill requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to their Instructor/ Course Coordinator. 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 (FOIPP). 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](mailto:suvpaca@ucalgary.ca)  
SU Faculty Rep. Phone: (403) 220-3913 e-mail: [science1@su.ucalgary.ca](mailto:science1@su.ucalgary.ca), [science2@su.ucalgary.ca](mailto:science2@su.ucalgary.ca) and [science3@su.ucalgary.ca](mailto:science3@su.ucalgary.ca); Student Ombuds Office: (403) 220-6420 e-mail [ombuds@ucalgary.ca](mailto: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](http://www.ucalgary.ca/usri)). Your responses make a difference - please participate in USRI Surveys.

Department Approval: Approved by Department Head

Date: August 16, 2017

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

Date: August 23, 2017