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

1. **Course:** Chemistry 203, General Chemistry: Change and Equilibrium

LEC	DAYS	TIME	ROOM	INSTRUCTOR	OFFICE	EMAIL	OFFICE HOURS
L01	MWF	1:00-1:50	SB 103	Dr. Violeta Iosub	SA 144C	viosub@ucalgary.ca	TBA
L02	MWF	2:00-2:50	SB 103	Dr. Rob Marriott	SB 221	rob.marriott@ucalgary.ca	
L03	TuTh	9:30-10:45	SB 103	Dr. Yuen-ying Carpenter	EEEL 237B	yyscarpe@ucalgary.ca	

Course, Lab, and Tutorial coordinator: Dr. Yuen-ying Carpenter (EEEL 237B | yyscarpe@ucalgary.ca)

Course website: d2l.ucalgary.ca [CHEM 203 - (Winter 2017) - General Chemistry: Change and Equilibrium]
Departmental Office: Room SA 229 | Tel: 403-220-5341 | e-mail: uginfo@chem.ucalgary.ca

Tutorials begin the week of January 16th, 2017.
Laboratory experiments begin the week of January 23rd, 2017.
Consult your schedule on MyUofC for exact times and room assignments.

2. **Prerequisites:** Chemistry 30 (or Continuing Education - Introduction to Chemistry) and one of Mathematics 30-1 or Pure Mathematics 30 or Mathematics II (offered by Continuing Education). Mathematics 31 is strongly recommended. (http://www.ucalgary.ca/pubs/calendar/current/chemistry.html#6508).

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%	(**Mon. Feb 6th 2017, 7-9pm**)
Term Test 2	15%	(**Mon. Mar 13th 2017, 7-9pm**)
Final Examination	40%	(**To be scheduled by the Registrar**)

Grading Scale:

A+	A	A-	B+	B	B-	C+	C	C-	D+	D	F
92%-100%	86%-91.9%	82%-85.9%	78%-81.9%	74%-77.9%	70%-73.9%	66%-69.9%	62%-65.9%	58%-61.9%	54%-57.9%	50%-53.9%	< 50%

Each piece of work submitted by the student will be assigned a numerical score. The total score for work submitted in each course component will be weighted according to the percentages above to produce an overall percentage score for the course. This overall course percentage score will be converted to a letter grade using the scale above.

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 203 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.

   In the event that a student misses a term test or any other course work, they must report their absence **within 48 hrs**. If the student is absent is due to illness then an official medical note will be required. If a student absence is due to other legitimate 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 missed component in order for an excused absence to be considered. If an excused absence is approved, then the percentage weight of a legitimately missed course component will be pro-rated among the remaining components of the course (see Section E.3 of the University Calendar).

   Missed Term tests: There are no deferred term test examinations. The percentage weight of a legitimately missed term test will be pro-rated among the remaining course examinations.

   *Missed Laboratories***:** Priority for the available spaces in the scheduled make-up laboratory will be given to students with legitimate reasons for absence, including documented illness, domestic (family) affliction, religious observance, varsity sports or similar. Absences for other reasons (vacation, tardiness, incomplete pre-lab assignment) are not guaranteed any accommodation, and will be handled at the coordinators discretion. 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.

   Missed Tutorials: Priority for a makeup tutorial will likewise be given to students with legitimate reasons for absence, with other reasons being handled at the coordinator's discretion. A missed tutorial without legitimate reason will result in a score of zero on that tutorial.

5. **Scheduled out-of-class activities:** The term tests will be held out-of-class on the EVENINGS of Monday, February 6th 2017 and Monday, March 13th, 2017, from 7:00-9:00pm (rooms TBA).

   REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a clash with this out-of-class-time-activity, please send an e-mail to the course coordinator by 5 p.m. on Tuesday, January 24th, 2017 so that alternative arrangements may be made for you.

6. **Course Materials:**
   - Textbook: *Chemistry and Chemical Reactivity*, *Ninth Edition* by J.C. Kotz, P.M. Treichel and J.R. Townsend, Brooks/Cole, CENGAGE Learning, 2015 (available in print or electronic form), plus printed access code for eLibrary and the Student Solutions Manual.
   - Two Chemistry Laboratory Report booklets
   - Lab coat & safety glasses
   - A non-programmable scientific calculator (Casio FX 260 or equivalent).

   In addition, students are strongly recommended to bring their cell phone, tablet, or laptop to lectures and participate during in-class Top Hat activity questions. Access to Top Hat is free for registered students. Each student's lowest non-zero tutorial quiz score can be replaced with their cumulative Top Hat score (see also, item 13). More details will be provided on the first day of lecture.

7. **Examination Policy**: All sections will write the same examinations. The questions are based on input from all instructors for the course. During exams students are allowed to bring only pencils, pens, erasers, their ID card, and non-programmable calculators. Programmable TI graphing calculators from high school are not acceptable. If in doubt, check your calculator with your instructor prior to the first term test Students should also read the Calendar, Section G, on Examinations.

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

9. **Writing across the curriculum statement:** 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. 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.

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 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 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 rational 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. **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 prelabs and exams.

13. **Laboratory and Tutorial information:** In addition to the Lecture component of the course, students are scheduled for tutorials and laboratory experiments in alternating weeks. In any given week, all students in the course will perform either a tutorial or a laboratory experiment. **You must attend your assigned tutorial or laboratory time slot,** *unless you have been given permission by the coordinator.*

    Laboratory Experiments. The Laboratory Manual is available online through Desire2Learn (D2L). 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 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. The lab grade achieved on the previous attempt will be carried forward. **Such students must contact the Chemistry Undergraduate Program Administrator, Ms. Jin Meng, in the Chemistry Main Office, SA 229 before the drop date (January 20, 2017).**

    Tutorials. Tutorials allow students to meet and work closely with other students. During each 75-minute tutorial, students work collaboratively in small groups on a series of problems before writing an individual assessment. There are pre-tutorial assignments on D2L that *must* be completed before attending any tutorial. Your lowest non-zero tutorial quiz grade can be replaced by cumulative scores of in-class Top Hat questions from lectures (see also item 6, above).

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. Student Misconduct to inform yourself of definitions, processes and penalties. *Examples of academic misconduct include but 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.* Please read the sections of the University Calendar under Section K.

(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 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
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.

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