

**UNIVERSITY OF CALGARY
DEPARTMENT OF CHEMISTRY
COURSE OUTLINE
Fall 2014**

1. COURSE: CHEMISTRY 701.07 – Research in Applied Chemical Thermodynamics

LEC	DAYS	TIME	ROOM	INSTRUCTOR	OFFICE	PHONE	EMAIL	OFFICE HOURS
L01	TBA	TBA	SB 221	Dr. Robert Marriott	SB 221	220-2417/3144	rob.marriott@ucalgary.ca	TBA

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

- 2. PREREQUISITES:** Interest in applied, computational and experimental thermodynamics.. (<http://www.ucalgary.ca/pubs/calendar/current/chemistry.html#6529>)
- 3. GRADING:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar (<http://www.ucalgary.ca/pubs/calendar/current/f.html>). In determining the overall grade in the course the following weights will be used:

Seminars (2)	30%
Assignments (6)	30%
Final Paper	40%

Total	100%

The marks for each of the course components will be recorded as a numerical score and combined as shown above to arrive at the total numerical score which will then be converted to a letter grade to be reported to the Registrar.

Approximate Grading Scale:

A+	A	A-	B+	B	B-
95% - 100%	90% - 94%	85% - 89%	80% - 84%	75% - 79%	70% - 74%
C+	C	C-	D+	D	F
65% - 69%	60% - 64%	55% - 59%	50% - 54%	45% - 49%	0% - 44%

- 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: <http://www.ucalgary.ca/pubs/calendar/current/sc-3-6.html>. It is the student's responsibility to familiarize himself/herself with these regulations. See also <http://www.ucalgary.ca/pubs/calendar/current/e-3.html>.
- 5. TEXTBOOK:** *'Molecular Thermodynamics of Fluid Phase Equilibria'*, J. M. Prausnitz, R. N. Lichtenthaler, E. G. De Azevedo

Supplementary Books:

'The Properties of Gases and Liquids', B. E. Poling, J. M. Prausnitz, J. P. O'Connell

'Physical Chemistry', Atkins

'Thermodynamics in Geochemistry, the Equilibrium Model', G. M. Anderson and D. A. Crerar

- 6. EXAMINATION POLICY:** Examinations for this course will be oral and based on a final paper to be submitted before December 20th, 2014. Students should also read the Calendar, Section G, on Examinations: <http://www.ucalgary.ca/pubs/calendar/current/g.html>.

7. **WRITING:** In this course, the quality of the student's writing will be a factor in their evaluation. See also <http://www.ucalgary.ca/pubs/calendar/current/e-2.html>.

7. OTHER IMPORTANT INFORMATION FOR STUDENTS:

- (a) **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
- (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 with documentable disabilities are referred to the following links: [Calendar entry on students with disabilities](#) and [Student Accessibility Services](#).
- (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 (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
- (f) <http://www.ucalgary.ca/secretariat/privacy>.
- (g) **Student Union Information:** [VP Academic](#) Phone: 220-3911 Email: suvpaca@ucalgary.ca.
SU Faculty Rep. Phone: 220-3913 Email: sciencerep@su.ucalgary.ca; [Student Ombudsman](#)
- (h) **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.
- (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.

The following signature lines should be added to the course outline **as appropriate**

Department Approval _____ Date _____

Where applicable – **one of the following.**

Associate Dean's Approval for
out of regular class-time activity: _____ Date: _____

Associate Dean's Approval for
Alternate final examination arrangements: _____ Date: _____