



UNIVERSITY OF CALGARY

DEPARTMENT OF CHEMISTRY
COURSE OUTLINE FALL 2014

1. **Course:** CHEMISTRY 619.17 – Selected Topics in Analytical Chemistry: Advanced Atmospheric Chemistry

Lecture Sections:

LEC	DAYS	TIME	ROOM	INSTRUCTOR	OFFICE	PHONE	EMAIL	OFFICE HOURS
L01	TuTh	11:00-12:15	ST 125	Dr. Osthoff	SB 205	220-8689	hothoff@ucalgary.ca	Tu, Th 5-6; Wd 12-1

Course website or Desire 2 Learn (D2L) course name: <https://d2l.ucalgary.ca/d2l/home/60395>

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

2. **Prerequisites:** Graduate course (<http://www.ucalgary.ca/pubs/calendar/current/chemistry.html#6549>). Chemistry 521 (or equivalent) is recommended.
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:

Problem Sets	25%
Midterm Exam (Nov 6, 2014)	20%
Mini-Proposal (Letter of intent)	15%
Proposal Presentation	15%
Literature reports	25%

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-
90% - 100%	85% - 89%	80% - 84%	76% - 79%	72% - 75%	68% - 71%
C+	C	C-	D+	D	F
64% - 67%	60% - 63%	56% - 59%	52% - 55%	48% - 51%	< 48%

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
5. **Scheduled out-of-class activities:** None.

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 inform your instructor as soon as possible so that alternative arrangements may be made for you.

6. **Course Materials:** The main text will be "Atmospheric Chemistry and Physics: From Air Pollution to Climate Change", John H. Seinfeld, Spyros N. Pandis, 2nd edition, Wiley, ISBN: 978-0-471-72018-8. The following are useful

supplementary reading: "Introduction to Atmospheric Chemistry", Daniel J. Jacob, Princeton University Press (1999). "Chemistry of the Upper and Lower Atmosphere", Barbara Finlayson-Pitts, James Pitts, Academic Press (2000). "Atmospheric Chemistry and Global Change", Guy P. Brasseur, John J. Orlando, and Geoffrey S. Tyndall, Oxford University Press, ISBN: 978-0-19-510521-6.

Online Course Components: None

7. **Examination Policy:** All examinations will be closed book. Only non-programmable calculators (e.g., Casio FX260) are permitted for use during the final exam components of the course. Students should also read the Calendar, [Section G](#), on Examinations.
8. **Approved Mandatory and Optional Course Supplemental Fees:** None
9. **Writing across the curriculum statement:** In this course, the quality of the student's writing in assignments and exams will be a factor in their evaluation. See also [Section E.2](#) of the University Calendar.
10. **Human studies statement:** Not applicable
11. **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

<http://www.ucalgary.ca/secretariat/privacy>.

(f) **Student Union Information:** VP Academic Phone: 220-3911 Email: suvcaca@ucalgary.ca.
SU Faculty Rep. Phone: 220-3913 Email: sciencerep@su.ucalgary.ca; [Student Ombudsman](#)

(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) 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 August 18 2014