



UNIVERSITY OF CALGARY

DEPARTMENT OF CHEMISTRY COURSE OUTLINE

1. **Course:** CHEMISTRY 321 – Environmental Chemistry

Lecture Sections:

LEC	DAYS	TIME	ROOM	INSTRUCTOR	OFFICE	PHONE	EMAIL	OFFICE HOURS
L01	TuTh	15:30-16:45	SB 103	Dr. Osthoff	SB 205	220-8689	hosthoff@ucalgary.ca	Tu Th 5-6; Wd 12-1

Course website or Desire 2 Learn (D2L) course name: <https://d2l.ucalgary.ca/d2l/home/106991>

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

2. **Prerequisites:** One of Chem 203, 209 or 213 (<http://www.ucalgary.ca/pubs/calendar/current/chemistry.html#6525>).

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:

Quizzes (in-class)	20%
Assignments (take-home)	20%
Midterm exam I (Sept 24, EEEL 161&EEEL 210, 18:00 - 20:00)	10%
Midterm exam II (Nov 19, ST 148 20:00 -22:00)	20%
Final Examination (Cumulative, to be scheduled by the Registrar)	30%

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%	61% - 63%	56% - 60%	52% - 55%	45% - 51%	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](#). 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:**

Midterm exam I: Sept 24, EEEL 161&EEEL 210, 18:00 - 20:00

Midterm exam II: Nov 19, ST 148, 20:00 -22:00

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 course text is "Fundamentals of Environmental and Toxicological Chemistry: Sustainable Science", Fourth Edition, by Stanley E. Manahan, CRC Press (2013), available for purchase at the University bookstore or online at <http://www.crcpress.com/product/isbn/9781466553163>. The following texts are recommended supplementary reading: "Elements of Environmental Chemistry", 2nd Edition, by Ronald Hites and Jonathan Raff, ISBN 978-1-118-04155-0, and "Environmental Chemistry", 5th or 4th Edition, by Colin Baird and Michael Cann, W.H. Freeman, NY.

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 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. Ashley Causton, by email ahugchem@ucalgary.ca or phone (403) 220-5353.
- (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: 220-3911 Email: suvpaca@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 similar 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: September 25 2015

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

Date: September 28 2015