

University of Guelph, College of Engineering and Physical Sciences, Department of Chemistry

Environmental Chemistry and Toxicology 3360

STUDENT COURSE INFORMATION – WINTER 2020

0.5 Credit

Lecture times: MWF 12:30 PM – 1:20 PM

Place: MCKN room 117

Prerequisite: CHEM*1050 (Please refresh your knowledge of thermodynamic and reaction rate concepts from Chem 1050 and organic chemistry from Chem 1040)

Lecturer for this course is Professor Monteiro (monteiro@uoguelph.ca).

Tentative Course Content and Learning Objectives :

- The chemistry of the ozone layer
- The source of air pollution
- Chemistry of the atmosphere
- The chemistry and source of the greenhouse effect
- Structures and chemistry of pesticides
- The chemistry and metabolism of toxic organic compounds
- Pollution and treatment of water
- Toxic metals
- Soil contamination
- Radioactivity
- Nuclear energy
- Gut-brain axis

Homework will consist of exercises and reading materials about recent research studies given by Prof. Monteiro during class discussions.

Class attendance is highly recommended for this course

(<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-attend.shtml>).

You do not need to purchase any textbook for this course. However, if you wish to read about the topics discussed in class, the University of Guelph library holds many books dealing with environmental chemistry and toxicology.

●Your final grade will be calculated as follows:

Mid-Term Exam 1	20%	February 12, 2020 in class
Mid-Term Exam 2	20%	March 11, 2020 in class
Final Exam	45%	See WebAdvisor for location and date
Oral presentation	15%	Presentations are in group format (groups assigned by Professor)

●Date of final exam: 11:30AM - 01:30PM (**April 6, 2020**). Check WebAdvisor for location.

●**Academic Misconduct.** The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. Note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor. The Academic Misconduct Policy is detailed in the Undergraduate Calendar: <http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

●No make-up mid-term exams will be given. If you miss any mid-term exam, a grade of zero will be assigned. However, within one week of the missed mid-term, you may provide justification/documentation to Prof. Monteiro for your absence. The percent value of the mid-term exam will be added to that of the final examination.

●In the case of a missed final exam, contact your Program Counsellor (www.uoguelph.ca/uaic/programcounsellors) as soon as possible. Official documentation is required within five working days of the missed examination.

●Exams will be closed book. No written notes, printed materials or electronic storage devices are permitted.

●Class discussion materials cannot be mass-distributed or supplied to any organization.

●Office hours in room LIB 360 Science Commons on the third floor of the library: Professor Monteiro is available for consultation and help. Request meeting(s) with Professor Monteiro by email message with your time preference(s) during Monday - Thursday 10 AM - 4 PM and Friday 10 AM – noon.

UNIVERSITY POLICIES

- **E-mail Communication.** Check your University e-mail account regularly: email is the official route of communication between the University and its students.

- **When You Cannot Meet a Course Requirement** When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. See the undergraduate calendar for information on regulations and procedures for Academic Consideration:
<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

- **Drop Date.** Last day of classes of W20 semester (April 3, 2020). For regulations and procedures for dropping this course, see the Undergraduate Calendar. Copies of out-of-class assignments Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to show your work at any time.

- **Accessibility.** The University promotes the full participation of students who experience disabilities in their academic programs. To that end, academic accommodations are a shared responsibility between the University and the student. When accommodations are needed, students are required to register with Student Accessibility Services (SAS). Documentation to affirm a disability is required, however, interim accommodations may be possible while that process is underway. Accommodations are available for both permanent and temporary disabilities. Common illnesses, such as a cold or the flu, do not constitute a disability. Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance, and not later than the 40th Class Day. More information: www.uoguelph.ca/sas.

- **Recording of Materials** Presentations which are made in relation to course work—including lectures—cannot be recorded or filmed without the permission of the presenter, whether the instructor, a classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted. Do not post class discussions on any website. Review the University's copyright law at:
<http://www.lib.uoguelph.ca/about/policies/copyright>

- **Resources.** The Academic Calendars are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs:
<http://www.uoguelph.ca/registrar/calendars/index.cfm?index>