

CHM1401 - Transport and Fate of Chemical Species in the Environment

This is the core course for new graduate students in environmental chemistry, and provides an introduction/refresher to concepts from physical, analytical and organic chemistry and their application to the environment. It also provides you with the background to better understand the research of your peers and colleagues.

Class time is from 9:00-12:00 on Tuesdays, with the time often divided into a two-hour lecture and one hour workshop. The course will be offered online for Professor Simpson's section and in-person for the remainder of the class. Attending lectures in real-time is required (whether online or in person) and active participation of students is expected. Readings and assignments for the course will be posted on the Quercus site (q.utoronto.ca) and students are responsible for checking the site regularly for updates and resources.

Instructors

Andre Simpson (coordinator) andre.simpson@utoronto.ca

James Donaldson james.donaldson@utoronto.ca

Scott Mabury scott.mabury@utoronto.ca

Derek Muir derek.muir@canada.ca

Daniel Newman daniel.newman@utoronto.ca

Date	Topics	Format-Location
Sep 7 th	Andre Simpson	Online*
Sep 14 th	Natural Organic Matter, Carbon Cycling and Instrumentation	Online*
Sep 21 st		Online*
Sep 28 th	Daniel Newman - Writing Skills Class	In Person - Room AP124 , Anthropology Building, 19 Russell Street, Toronto, ON
Oct 5 th	Jamie Donaldson	In Person - Room AP124
Oct 12 th	Kinetics refresher, application to environmental modelling Photochemistry principles and atmospheric processes	In Person - Room AP124
Oct 19 th		In Person - Room AP124
Oct 26 th	Scott Mabury	In Person - Room AP124
Nov 2 nd	Reactions in the atmo/hydro/litho/bio-spheres	In Person - Room AP124
Nov 9 th		In Person - Room AP124
Nov 16 th	Derek Muir	In Person - Room AP124
Nov 23 rd	Bioavailability, Sorption, Chemical space models	In Person - Room AP124
Nov 30 th		In Person - Room AP124 . George

*Professor Simpson is recovering from back surgery and cannot stand, his sections will be taught online via Bb collaborate see course Quercus page. You do not need to attend class in person for Professor Simpson's sections but must attend virtually in real-time.

Evaluation

Assignment(s) from each instructor **40 % (10% for each instructor)**

Assignments Due:

Simpson - September 28th

Donaldson - October 26th

Mabury - November 16rd

Muir - December 7th

Term paper – submit via course Quercus page (*outline due Sept 21st, paper due Nov 16th*) - **30 %**

Take-home, open-book “exam” submit via course Quercus page (dates to be determined) - **30 %**

Plagiarism: Students may be required to submit their course assignments to Turnitin.com for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their material to be included as source documents in the Turnitin.com reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of the Turnitin.com service are described on the Turnitin.com web site.

Accommodations: Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability or health consideration that may require accommodations, please contact Accessibility Services at (416) 978 8060; <http://www.studentlife.utoronto.ca/as>, or contact Professor Andre Simpson if you have questions.