

Introduction to Green Chemistry (CHMD89H) – Winter 2011

University of Toronto at Scarborough

Welcome to the first ever offering of CHMD89! This course will introduce you to the growing field of green chemistry – an interdisciplinary approach to chemistry that strives to develop environmentally benign chemical reactions and processes. The course will begin by introducing the twelve principles of green chemistry followed by the use of green chemistry metrics for quantifying ‘greenness.’ In this context, we will move on to explore major areas of green chemistry research including alternative solvents, catalysis and renewable feedstocks. Examples from industry and from the current literature will be used to reinforce the material and highlight recent advancements. The topics covered will be multidisciplinary in nature and will draw on aspects of organic, inorganic and polymer chemistry. Prerequisites for this course include CHMB31 and one of either CHMC41 or CHMC42; CHMC31 is strongly recommended.

Please take a few minutes to read through this document. It contains important information that will help ensure your success in this course.

Instructor:

Dr. Effie Sauer

SW650

Email: esauer@utsc.utoronto.ca

Office Hours: Mondays and Wednesdays, 1:30-2:30 pm

Lecture Schedule:

Tuesdays 5-6 pm in MW 262

Thursdays 1-3 pm in MW 110 (NOTE: most weeks we’ll only meet from 1-2 pm)

Website:

CHMD89 maintains a Blackboard web space which archives a variety of course-related information including: class announcements, assigned readings, grades, discussion board posts, contact information and links to outside resources. In addition, class emails will regularly be sent via Blackboard. ***In order for you to receive these emails, you must have a valid “utoronto.ca” email account registered with ROSI.***

Method of Evaluation:

Your grade in this course will be determined by your participation in class discussions, two assignments (each with an accompanying oral presentation) and an end-of-term test. The breakdown is shown here with more detailed descriptions of each item on the following page.

Class Participation	15%
Assignment 1	20%
Assignment 2	45%
End of Term Test	20%

Class Participation:

A significant portion of your grade will come from class participation. By this, I mean making a *meaningful* contribution to class discussions – both during lecture and, on occasion, through the discussion board on Blackboard. Since class discussions are unlikely to have been a major part of your previous chemistry courses, I want to make sure that you understand what is expected. Below is a sample rubric of how I will grade your in-class participation. A similar rubric will be used for any discussions that take place online.

	Excellent	Needs Some Improvement	Unsatisfactory
Listening	Actively and respectfully listens to peers and instructor	Sometimes displays lack of interest in comments of others	Projects lack of interest or disrespect for others
Preparation	Arrives fully prepared having thoroughly read and thought about the assigned readings	Sometimes arrives unprepared or with only superficial preparation	Exhibits little evidence of having read or thought about the assigned readings
Quality of Contributions	Comments are relevant and reflect a deep understanding of the material and the remarks of other students	Comments are sometimes irrelevant, suggesting a lack of preparation, or lack of attention to previous remarks by students	Comments reflect little understanding of either the assigned readings or the remarks of others
Impact on Seminar	Comments frequently help move the conversation forward	Comments sometimes advance the conversation, but other times do little to move it forward	Comments do not advance the conversation or are actively harmful to it
Frequency of Participation	Actively participates at appropriate times	Sometimes participates but at other times is “tuned out” ^{38.8701p}	

Accessibility:

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office as soon as possible. I will work with you and AccessAbility Services to ensure you can achieve your learning goals in this course. Enquiries are confidential. The UTSC AccessAbility Services staff (located in S302) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations (416) 287-7560 or ability@utsc.utoronto.ca.

Academic Integrity:

Academic integrity is one of the cornerstones of the University of Toronto. It is critically important both to maintain our community which honours the values of honesty, trust, respect, fairness and responsibility and to protect you, the students within this community, and the value of the degree towards which you are all working so diligently.

According to Section B of the University of Toronto's Code of Behaviour on Academic Matters <http://www.governingcouncil.utoronto.ca/policies/behaveac.htm> which all students are expected to know and respect, it is an offence for students to:

- To use someone else's ideas or words in their own work without acknowledging that those ideas/words are not their own with a citation and quotation marks, i.e. to commit plagiarism.
- To include false, misleading or concocted citations in their work.
- To obtain unauthorized assistance on any assignment.
- To provide unauthorized assistance to another student. This includes showing another student completed work.
- To submit their own work for credit in more than one course without the permission of the instructor.
- To falsify or alter any documentation required by the University. This includes, but is not limited to, doctor's notes.
- To use or possess an unauthorized aid in any test or exam.

There are other offences covered under the Code, but these are by far the most common. Please respect these rules and the values which they protect. Offences against academic integrity will be dealt with according to the procedures outlined in the Code of Behaviour on Academic Matters.

Turnitin.com:

Please note that this course will be using turnitin.com for all papers and presentation. Students will be required to submit their course work to Turnitin.com for a review of textual similarity and detection of possible plagiarism. In doing so, students