Chem 4010: Chemistry and Industry. Winter 2015.
Department of Chemistry, University of Guelph.

"This course examines industrial processes for the production of organic and inorganic chemicals. The environmental impact and the challenges of a large-scale operation will be considered alongside the actual chemical processes involved."

Environmental Health and Safety issues will be the underlying theme of this course. What is WHMIS really about? Why do we have OHSA? What is GHS? What is OECD? How do safety rules affect me? Why are MSDS sheets dangerous? What do I need to know about nuclear chemistry? Are antibacterial soaps safe? Why are peanut allergies becoming more and more common? Other: Silicone, Spray foam, Urea-formaldehyde, Fire retardants, Pesticides, Petroleum, Green Energy, Organic Produce, Nutritional Supplements, Naturopathic alternatives, weight loss products, ….

Course Instructor:	Dr. Robert Reed.	x53805.
	Office:	SC 3114
	e-mail:	rwreed@uoguelph.ca
Lectures:	MCKN, Room 236	Tues. 1:00 to 2:20
		Thurs. 1:00 to 2:20
Office Hours:	Anytime. T, W, Th 11:30 to 12:30.	
Text: None	http://www.labour.gov.on.ca/english/	
	http://pubs.acs.org/cen/	
	http://www.cbc.ca/news/	
	http://www.bbc.co.uk/	

Evaluation:	Assignments and Tests.	(probably 5)	70%
	FINAL EXAM		30%
	07:00PM - 09:00PM (2015/04/06)		

Possible Assignments (not a definitive list, may change with world events)

1. Chemistry of every day items. (Poster Presentation.)
2. Case study: Sheri Sangji. (Oral Presentation)
3. Pesticides: Colony Collapse Disorder.
4. Ebola and Vaccines.
5. BPA: Consequences.
6. Government Regulations, Safety, Economics and Ethics.

Attendance: will affect your grade.