## STT-Chemistry in Your Home, Work, and Environment

Chemistry 192

Section: D100

Term: 2006 Summer

Instructor: Dr. D. Leznoff

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Discussion Topics: This is an introducory course intended for both science and non-science majors, exploring the impact of chemistry on modern living. Students will gain a broad perspective on chemical processes with historical, environmental and economic importance in shaping society, examining both beneficial and harmful aspects of the chemicals that shape our lives. Topics may include: Perfumes, explosives, drugs, dyes, plastics, pesticides and greenhouse gases.

3 lecture hours/week; 1 tutorial hour/week; 0 lab hours

Week

Tentative Lecture Topics

- 1-2 Introduction: Atoms, molecules, elements and the Periodic Table
- 3 Air pollution, greenhouse gases, the ozone layer
- 4 Acid Rain and Green Chemistry
- 5 Fertilizer, explosives and fireworks
- 6-7 Fules old and New: from gasoline to hydrogen

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8 Metals, minerals and mines
9 Soap
10 Polymers and Plastics
11 Drugs
12 Food and Drink (e.g. the chemistry of chocolate, coffee, wine, beer)
13
Looking beyone "artificial" and "organic"
Grading: 5% News Assignments; 20% Midterm Exam; 25% Written Report/Presentation; 50% Final Exam.
Required Texts: Snyder, C.H., "The Extraordinary Chemistry of Ordinary Things", Publisher: Wiley. 4th Edition., 2003.
Recommended Texts: Several books on reserve in Library
Materials/Supplies: None
Prerequisite/Corequisite: None
Notes: None
This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.