Overview

Green Chemistry is the design of chemicals and processes while eliminating the use and generation of hazardous substances. Focuses on green chemistry principles and their industrial applications.

Goals at the end of the semester you should be able to:

1. **locate, evaluate, and use** information concerning green chemical processes effectively; use the information as a platform to think critically
2. **integrate** the principles of Green Chemistry into your main area of expertise
3. **make** sensible use of the variety of data addressing the concerns related with the reciprocal effect of humans environment
4. **articulate** expression through effective speaking – Student individual project & presentations (three throughout the semester)
5. **articulate** expression through effective writing – Student individual projects & presentation-Written final report
6. **acquire** a better understanding of the role chemistry plays in our everyday lives

Requirements

Three exams; (should get a C or better to pass) No make-up
Three oral presentation
Project: oral presentation and written report (need a C or better to pass)
Knol-of-science-individual (web)
SS Day presentation-group (poster) April 11, 2012

Evaluation

45% Exams: 10% Exam 1; 15% Exam 2; 20% Final Exam
35% Assignments: 5% Knol-of-Science; 5% SS Day Presentation; 5% GC Presidential Award presentation; 10% Case Study; 5% Homework; 5% Class & Discussion Board participation
20% Final Project

Materials

- *Green Chemistry-An introductory text* by M. Lancaster
- *Sustainable Industrial Chemistry: Tools and Industrial Examples*, by Cavani, Centi, Parathoner, Trifiro, (Eds),

Milestones

**FEBRUARY 3rd**
Green Chemistry: definition, Principles, Tools, Practice
- Exam 1
- Knol-of-Science - DUE

**MARCH 2nd**
Green processes & Case Studies
- Exam 2

**APRIL 2nd**
- SS Day Presentation - DUE

**APRIL 20th**
Sustainable Industrial Chemistry-Industrial applications
- Presidential GC Award presentation
- Final project - DUE

**APRIL 25th**
- Final Exam