

University of West Florida
Syllabus for CHM1020, Concepts in Chemistry
Spring 2004

Instructor: Dr. Tim Royappa

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Office hours: Thursdays, 10:00 - 11:00 am, and by appointment

Text: C. H. Snyder, *The Extraordinary Chemistry of Everyday Things*, 4th ed. (Wiley, 2003).

Course content:

Atoms, Elements and Compounds (ch. 1, 2)

Nuclear Chemistry (ch. 4, 5)

Organic Chemistry (ch. 6)

Petroleum (ch. 7)

Energy (ch. 8)

The Mole (ch. 9; also covers solutions and pollution)

Acids and Bases (ch. 10)

Redox Chemistry (ch. 11)

Gases (ch. 12)

Soaps (ch. 13)

Food Chemistry/Biochemistry (ch. 15, 16, 17, 18)

Plastics (ch. 21)

Grading scheme:

There will be seven quizzes during the course, and the lowest grade will be dropped. There is no final exam. Each quiz will cover material taught in the previous two weeks, and will be held during regular class hours. All quizzes will be closed-book and closed-notes tests. You will need a calculator to do some of the problems. If you have any special needs or disabilities which affect your test-taking ability, please inform me in the first week of class. *60% of grade*

There will also be a semester-long information literacy project, culminating in a term paper, that you will have to complete as part of this course.

1. Attend Step I orientation in library or complete online library tutorial (especially, learn to use subject-specific "ELi guides.") **Deadline:** Wednesday, September 29th. *5% of grade*
2. Find three recent news reports of a scientific discovery or invention in Chemistry (e.g., in the Lexis-Nexis database). Alternatively, you may find three recent news reports on a Chemistry-related issue from a list (to be provided by the instructor). **Deadline:** Wednesday, October 13th. *5% of grade*
3. Generate an annotated bibliography of at least six scholarly sources of information about this new discovery/invention (e.g., Access Science, Wilson Omnifile, Academic Index ASAP & other multidisciplinary periodical indexes; CRC Handbook of Chemistry and Physics; ELi pages; chemfinder.com; patent literature in Lexis-Nexis; MSDS info on the Web, e.g., msds.ehs.cornell.edu/msdssrch.asp; and other discipline-related encyclopedias and handbooks). **Deadline:** Wednesday, October 27th. *10% of grade*
4. Write a term paper (two to three pages) on your chosen topic using the bibliography you made (see step 3.). **Deadline:** Wednesday, December 1st. *20% of grade*

Withdrawals:

You may withdraw from Concepts in Chemistry with an automatic grade of "W" on or before Monday, November 1st. After that date, withdrawal is still possible, but considerably more complicated. Contact the Registrar's office for details.