Chem 4:005:SCA

Technology and Society

(From a Chemist's Point of View)

Fall 2011

Instructor
Dale C. Swenson
Instructor's office/ lab
W437CB
W436CB
E-mail address
dale-swenson@uiowa.edu
Office hours
4:30-6PM T, 10-11:30AM W or by appointment
Phone
335-0281 office
Department
Chemistry
Departmental office
E225 CB
Departmental officer
Jessica Alberhasky 335-1341
Dept. office hours
8-12, 1-5 M-Th; 8-12, 12:30-4:30 F

Text
Chemistry for Changing Times 11th Ed.
by John W. Hill, Doris K. Kolb

Description
Exploration of societal and technological issues from a chemical perspective. The course emphasizes chemical and scientific literacy as a means to better understand topics like air and water (and the trace materials found in them that are referred to as pollutants); energy from natural sources (i.e., solar and renewable forms), from fossil fuels and from nuclear fission; materials like plastics and polymers and their natural analogs, proteins and nucleic acids; and chemical reactivity and molecular inter-conversions from simple examples like combustion to complex instances like genetic engineering and the manufacture of drugs. Calculations and mathematical manipulations are minimal, and no college-science preparation is required.

Approved GE
Natural Sciences

Prerequisites
none

Co-requisites
none

Grading
3 exams; 9 quizzes (lowest quiz dropped)
Course grade will be based on the three highest of four scores (3 exams and the total of 8 quizzes). plus/minus grading used for the final grade. Grading will be on a curve, the average will be approximately B-/C+.
<table>
<thead>
<tr>
<th>Attendance</th>
<th>Strongly recommended but not required (except exams, of course).</th>
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<tbody>
<tr>
<td>Assignments</td>
<td>Strongly recommended but not required.</td>
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<tr>
<td>Examinations and Quizzes</td>
<td>Multiple choice format covering material from the text and lectures. Quizzes will be given at the end of the lecture period. No make-up quizzes will be given. The exam schedule is below.</td>
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<tr>
<td>Disabilities</td>
<td>Any student with special needs due to a disability should contact the instructor as soon as possible.</td>
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<td>Goals and objectives</td>
<td>The student will be introduced to the language and basic principles of chemistry and application of these to the technology of today's society.</td>
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<td>Location/Time</td>
<td>E215CB Tuesdays 6:30-9:15</td>
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<td>Schedule</td>
<td>Unit</td>
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<tr>
<td></td>
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<td>II</td>
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<td>III</td>
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Administrative Home of the Course
The College of Liberal Arts and Sciences is the administrative home of this course and governs such academic matters as the add/drop deadlines, the second-grade-only option, issues concerning academic fraud or academic probation, and how credits are applied for various graduation requirements. Different colleges may have different policies. Students with questions about these or other CLAS policies should speak with an academic advisor or with the staff in 120 Schaeffer Hall. Also see the CLAS Academic Handbook:
www.clas.uiowa.edu/students/academic_handbook/index.shtml

Academic Fraud
Plagiarism and any other activities that result in a student presenting work that is not his or her own are academic fraud. Academic fraud is reported to the departmental DEO and then to the Associate Dean for Academic Programs and Services in the College of Liberal Arts and Sciences who deals with academic fraud according to these guidelines:
www.clas.uiowa.edu/students/academic_handbook/ix.shtml

Making a Suggestion or a Complaint
Students have the right to make suggestions or complaints and should first visit with the instructor, then with the course supervisor if appropriate, and next with the departmental DEO. All complaints must be made within six months of the incident. www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5

Accommodations for Disabilities
A student seeking academic accommodations should first register with Student Disability Services and then meet with a SDS counselor who determines eligibility for services. A student approved for accommodations should meet privately with the course instructor to arrange particular accommodations. See www.uiowa.edu/~sds/

Understanding Sexual Harassment
Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. See wwwsexualharassment.uiowa.edu/

Reacting Safely to Severe Weather
If severe weather is indicated by the UI outdoor warning system, class members will seek shelter in the innermost part of the building, if possible at the lowest level, staying clear of windows and of free-standing expanses which might prove unstable. The class will resume after the severe weather has ended. See the Operations Manual section 16.14.1.

Student Classroom Behavior
The ability to learn is lessened when students engage in inappropriate classroom behavior, distracting others; such behaviors are a violation of the Code of Student Life. When disruptive activity occurs, a University instructor has the authority to determine classroom seating patterns and to request that a student exit immediately for the remainder of the period. One-day suspensions are reported to appropriate departmental, collegiate, and Student Services personnel (Office of the Vice President for Student Services and Dean of Students).

University Examination Policies
Missed exam policy. University policy requires that students be permitted to make up examinations missed because of illness, mandatory religious obligations, certain University activities, or unavoidable circumstances. Excused absence forms are available at the Registrar web site: www.registrar.uiowa.edu/forms/absence.pdf

Final Examinations. An undergraduate student who has two final examinations scheduled for the same period or more than three examinations scheduled for the same day may file a request for a change of schedule before the published deadline at the Registrar's Service Center, 17 Calvin Hall, 8-4:30 M-F, (384-4300).