

CHEMISTRY CONNECTIONS

CHE 51-043

FJSH 320

TTh 9:00-10:50 am

Syllabus Fall 2006

- Instructors:** Dr. Kerry Bruns and Dr. Willis Weigand
- Office:** Dr. Bruns: FJSH 316, Dr. Weigand: FJSH 318
- Office Hours:** Dr. Bruns: TTh 11:00-noon
Dr. Weigand: MWF 9:00-11:00am
- e-mail:** brunsk@southwestern.edu
weigandw@southwestern.edu
- Office Phone:** Dr. Bruns: 863-1628
Dr. Weigand: 863-1973
- Course Materials:** Lab Text: Chemistry for Changing Times, 10th Edition, Hill and Kolb (Required). Additional books on reserve in library.
- Other: Handheld calculator with log and scientific notation functions, ***APPROVED LAB SAFETY GLASSES AND LABORATORY COAT.***
- Safety:** **It is University policy that you must wear University approved safety glasses and laboratory coat. NO EXCEPTIONS! Close-toed shoes and long pants are required.**
- Course Description:** Chemistry Connections provides an introduction to the important scientific and chemical principles for non-science majors. The relevant chemical information will be presented in distinct topical modules covering basic chemistry, art and archeology, environmental and geochemistry/natural resources.
- Academic Integrity:** Academic integrity is expected. All work is to be your own on the exams and laboratory reports. Be familiar with the University policies and regulations on academic integrity. Please include the Pledge in all work you hand in for grading (tests and laboratory sheets).
- Accommodations:** Southwestern University is committed to assisting students with disabilities. Reasonable accommodations may be made once a student has registered his/her disability and has the appropriate documentation on file with the Office of Academic Services on the

third floor of the Cullen Building. Professors must be notified of the accommodation at least two weeks before the accommodation is necessary or as soon as reasonably possible. For more information, contact Deb McCarthy at 863-1536.

Course Rules and Requirements:

The course will be discussion driven and you will be expected to participate in the discussions, therefore your attendance is required. Presentations using posters and/or electronic media will be given at the end of each module. Those groups of students with an interest in that module will be given the opportunity to present at the completion of the module of interest. Before you start, topics for presentations should be approved by one of the instructors. For example, history majors could give a talk on some aspect of the history of chemistry or how chemistry has impacted a period of human development. The presentations should be about 15-20 minutes in length. A written exam will be given at the completion of each module. The posters will be presented by small groups at the end of the semester.

The laboratory report will consist of the information requested in the laboratory sheets. The report will be due at the following laboratory meeting. Late labs will not be accepted and will be assigned a grade of zero (0). **Please notify the instructor beforehand should a University approved event conflict with your lecture or laboratory attendance. Academic Services must verify a serious family illness or death. THERE WILL BE NO MAKE-UP LABS.**

Grading:

Your grade will be determined based upon a total of 560 points distributed as follows:

Hour exams:	200 points	(4 exams x 50 points)
Final	100 points	
Laboratory	100 points	(10 labs x 10 points)
Paper/presentation	100 points	(50 points each)
Poster	50 points	
Sunprints	10 points	
Total Points	560 points	

<u>Final Grade</u>	<u>% of Total Points</u>	<u>Points</u>
A	90-100	504-560
B	80-89	448-503
C	70-79	392-447
D	60-69	336-391
F	Less than 59	335 and less

The +/- grading system will be used to determine your final grade. Class participation will be considered when assigning final grades.

Experiment Schedule (Subject to Change)

<u>Week of</u>	<u>Topic/Laboratory</u>
August 29	Basic Chemistry Module; Lab: Density
September 5	Basic Chemistry Module; Lab: Copper Reaction sequence
Sept. 12	Basic Chemistry Module; presentations; exam; Lab: Formula of a Hydrate, MgSO ₄
Sept. 19	Art and Anthropology Module; Lab: Ransom Center
Sept. 26	Art and Anthropology Module; Lab: Etchings
Oct. 3	Art and Anthropology Module; presentations; exam
Oct. 10	Environmental Module; Water Quality Lab
Oct. 17	Fall Break Tuesday, Environmental Module; Lab: Water Hardness
Oct. 24	Environmental Module; Lab: Recycle Aluminum
Oct. 31	Environmental Module; presentations
Nov. 7	Environmental Module exam and Geochemistry and Natural Resources Module
Nov. 14	Geochemistry and Natural Resources Module
Nov. 21	Thanksgiving Week; Inner Space Caverns. No class Thursday

Nov. 28	Geochemistry and Natural Resources Module; Lab: Aspirin
Dec. 5	Geochemistry and Natural Resources Module; presentations; exam
Dec. 11	Final Exam Monday, December 11, 8:30-11:30am

Exam Dates

Thursday, Sept. 14

Thursday, Oct 5

Tuesday, Nov. 7

Thursday, Dec. 7

Final Exam Monday, December 11

Papers will be accepted up until Friday, December 8 at 5:00 pm.