CHM 1311: General Chemistry
Fall 2004

Section 003: MWF: 2:00–2:50 PM, FN 2.102 (Kusch Auditorium)

Instructor: Prof. Richard A. Caldwell
Office: BE 3.514 Phone: 972-883-2906
Email: caldwell@utdallas.edu

Supplemental Instructor: Christopher Alameddin

Office Hours: Dr. Caldwell: Friday 3-4, or by appointment.

Group problem Session: With Dr. Caldwell: Wednesday 4-5, FN2.102; Monday 3-4, GR3.302

Internet resources: http://www.utdallas.edu/~caldwell/

Prerequisite: One year of high school chemistry is assumed.

Text: *Chemistry: Matter and Its Changes, Fourth Edition* by James E. Brady and Fred Senese

Supplemental Texts: *Study Guide for Chemistry: Matter and Its Changes, Fourth Edition*, by Brady

Student Solutions Manual for Chemistry: Matter and Its Changes, by Nicholas Drapela

Course Evaluation:		
	(i) Exams (4)	75%
	(ii) Final	25%

(i) exams: Exams are at 8:00 – 8:50 AM Wednesdays, as given in the syllabus. There will be a lecture at the regular time on exam days. ALL 4 EXAMS MUST BE TAKEN as scheduled. ***There will be no makeup exams given***. The lowest of the four exam scores will automatically be replaced by the final exam score if the latter is higher. If you have an acceptable, documented reason for missing an exam, you will be allowed to replace the missed exam with your score on the final. ***Otherwise, you will receive a "zero" for that exam, that zero will not be replaced by the final, and will be included in the calculation of your final class grade.***

(ii) final: The final exam will be comprehensive and cannot be replaced by any other grade, so don't miss it. The time of the final is set in stone by the University (***no makeup final will be given***).

Attendance: Your attendance and class participation will have an impact on your final grade. Taking an active role in your learning will (guaranteed) help you perform better. And remember: if you end up close to a grade cutoff, class participation will be considered...

A*cademic honesty*: Studying together is encouraged. You really will learn more. Work submitted for grading under your name, however, is assumed to be yours alone. Suspected academic dishonesty will be dealt with through the normal university policies (see your student handbook). If you are found guilty, penalties can range from failing the course to university dismissal.

Miscellany: Cell phone use is not allowed in CHM 1311. Phones are to be turned off upon arrival in class.

CHM 1311 Topics and Schedule

Class period	Day	Date	Topic	Chapter
1	Fri	Aug 20	Introduction/Atoms and elements	1
2	Mon	Aug 23	Atoms and Elements.	1
3	Wed	Aug 25	Atoms and Elements.	1
4	Fri	Aug 27	Compounds and Chemical Reactions.	2
5	Mon	Aug 30	Compounds and Chemical Reactions.	2
6	Wed	Sept 1	Measurement.	3
7	Fri	Sept 3	Measurement.	3
	Mon	*Sept 6*	*Labor Day*	
	Wed	**Sept 8**	**Exam 1 (Chapters 1,2,3)**	
8	Wed	Sept 8	Quantum Mechanical Atom.	8
9	Fri	Sept 10	Quantum Mechanical Atom.	8
10	Mon	Sept 13	Quantum Mechanical Atom.	8
11	Wed	Sept 15	Quantum Mechanical Atom.	8
12	Fri	Sept 17	Chemical Bonding: General Concepts.	9
13	Mon	Sept 20	Chemical Bonding: General Concepts.	9
14	Wed	Sept 22	Chemical Bonding: General Concepts.	9
15	Fri	Sept 24	Chemical Bonding: General Concepts.	9
16	Mon	Sept 27	Chemical Bonding and Molecular Structure.	10
17	Wed	Sept 29	Chemical Bonding and Molecular Structure.	10
18	Fri	Oct 1	Chemical Bonding and Molecular Structure.	10
19	Mon	Oct 4	Chemical Bonding and Molecular Structure.	10
	Wed	**Oct 6**	**Exam 2 (Chapters 8,9,10)**	
20	Wed	Oct 6	The Mole.	4
21	Fri	Oct 8	The Mole.	4
22	Mon	Oct 11	The Mole.	4
23	Wed	Oct 13	The Mole.	4
24	Fri	Oct 15	Solutions.	5
25	Mon	Oct 18	Solutions.	5
26	Wed	Oct 20	Solutions.	5
27	Fri	Oct 22	Solutions.	5
28	Mon	Oct 25	Oxidation-Reduction reactions.	6
29	Wed	Oct 27	Oxidation-Reduction reactions.	6
30	Fri	Oct 29	Oxidation-Reduction reactions.	6
31	Mon	Nov 1	Oxidation-Reduction reactions.	6
	Wed	**Nov 3**	**Exam 3 (Chapters 4,5,6)**	
32	Wed	Nov 3	Energy and Chemical Change.	7
33	Fri	Nov 5	Energy and Chemical Change.	7
34	Mon	Nov 8	Energy and Chemical Change.	7
35	Wed	Nov 10	Energy and Chemical Change.	7
36	Fri	Nov 12	Properties of Gases.	11
37	Mon	Nov 15	Properties of Gases.	11
38	Wed	Nov 17	Properties of Gases.	11
39	Fri	Nov 19	Intermolecular Attractions: Liquids and Solids.	12.1–12.7
40	Mon	Nov 22	Intermolecular Attractions: Liquids and Solids.	12.1–12.7
	Wed	**Nov 24**	**Exam 4 (Chapters 7,11,12.1–12.7)**	
41	Wed	Nov 24	Intermolecular Attractions: Liquids and Solids.	12.8–12.9
	Fri	*Nov 26*	*Thanksgiving Holiday*	
42	Mon	Nov 29	Review	
	Mon	**Dec 6**	**Cumulative Final Exam (8am to 10:45am)**	