CHM 1311: General Chemistry

Fall 2005

Section 001: MWF: 9:00–9:50 am, Rm. FN 2.102 (Kusch Auditorium)

Section 002: MWF: 10:00–10:50 am, Rm. FN 2.102 (Kusch Auditorium)

Instructor: Dr. Gregg R. Dieckmann — Associate Professor, Chemistry

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Office Hours: Mon: 1–2 pm; Thurs: 9–10 am; Problem session: Tue: 5–6 pm (rm. X)

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

Internet Resources: http://www.utdallas.edu/~dieckgr/chem1311/CHM1311_Fall2005.htm

Course Evaluation:

(i) Quizzes		15%
(ii) Exams	(4 x 15%)	60%
(iii) Final		25%

(i) quizzes: There will be approximately 8 quizzes on the covered material. These will be in class quizzes. ***There will be no makeup quizzes*** (you will receive a "zero" for any quiz you miss). Your lowest quiz grade will be dropped.

(ii) exams: ALL 4 EXAMS MUST BE TAKEN, at the scheduled time and on the scheduled day. ***There will be no makeup exams given***. The lowest of the 4 exam scores will be automatically replaced by a higher final exam score. 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. Exams are scheduled for 8:00 am on specific Wednesdays (see schedule).

(iii) 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***). **NOTE the final exam date and time (see schedule).**

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*: I assume that students at this level need not be reminded of the necessity of doing their own work. I encourage people to study with each other--you really will learn more. If anyone is found participating in dishonest conduct, they will be dealt with in the normal university policies as outlined in your student handbook. If found guilty, penalties can range from failing the course to university dismissal. Folks, it's not worth it!

CHM 1311.001 Topics Schedule

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