CHM 1311: General Chemistry
Fall 2005
Section 004: MWF: 2:00–2:50 pm, Rm. FN 2.102 (Kusch Auditorium)

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Office Hours: Mon: 9–10 am; Weds: 9–10 am; Problem session: Scheduled by SI

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

Computer: Relevant course material may be posted at http://blackboard.utdallas.edu. This material may include solutions to quizzes and exams. You may log onto the Blackboard site using your UTD assigned net ID and password. If you do not know your UTD NetID, you can retrieve it at http://netid.utdallas.edu/. Accessibility information can be found at http://access.blackboard.com. Mail sent to you by the instructor will be sent to your university email address. If you wish to use other email addresses, you will need to visit http://netid.utdallas.edu/ and set up mail forwarding. In order to comply with the UTD policy that all official correspondence be to the UTD email address, instated on 1 August 2004, administrators are keeping the UTD email address in the Blackboard profiles.

Internet Resources: Additional supplementary course information may be found at http://www.utdallas.edu/~dieckgr/chem1311/CHM1311_Fall2005.htm

Hmwk & Quizzes: Homework problems will be assigned but will not be collected or graded; their goal is to assist your study of the subject matter. Answers will be available on the Blackboard website. Quizzes will be given in review of chapter material and quiz dates will be announced in class at least one class period prior to the quiz. Quizzes will review homework problems or your understanding of important concepts covered in the lecture material. There will be **NO MAKEUP QUIZZES**; any quiz missed will receive a grade of zero (0). **PLEASE DO NOT ASK ME ABOUT MAKEUP QUIZZES!** Your total quiz grade will be determined on the basis of your best quiz scores, after having dropped your lowest quiz grade

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

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).

Final Exam: 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.

KEYS TO SUCCESS IN CHEM 1312:

- Be prepared for lectures by reading the assigned chapters before class. This will enable you to understand the lectures more thoroughly and allow you to formulate questions in class. Reread the chapter as necessary.
- Avoid getting behind. It is my estimation that the vast majority of students who do poorly in this class do so because they fall behind. The pace of the class can be quite fast and it is, therefore, essential that you study on a daily basis.
- Work the exercises in the chapters and the assigned homework problems on a regular basis and certainly before attending help sessions. You learn chemistry by doing it - there are no shortcuts. Please note that the answers to the in-chapter practice exercises and the even-numbered problems are at the back of your text.
- Make use of your instructor's time/office hours. I welcome your visits at most other times when my office door is open. Take advantage of this resource! I am committed to helping you succeed in this course, but your success will require dedication and hard work on your part.
- Attend and participate in Help Sessions offered by the instructor or the **SI**.
- Use the Learning Aids provided at the end of each chapter in your textbook:

  Understand the "**Tools you have learned" section**.

  Challenge yourself with the "**Thinking It Through**" problems.

  Read/scan/review **chapter summaries**.

CHM 1311.004 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)**	