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## CHEM 112-03, General Chemistry II, Spring 2008

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## **CHEMISTRY 112, GENERAL CHEMISTRY II**

Spring, 2008 - (3:00 p.m., MWF)

Dr. David Y. Jeter

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**DESCRIPTION:** In this course, you will study several of the fundamental principles that define chemistry by exploring the composition, structure, properties, and reactivity of matter. We will focus most of our attention on inorganic compounds, since the underlying ideas in the models of bonding and reactivity as they apply to these substances are applicable to organic compounds as well. At the completion of the class, you should have had a solid introduction to the basic models that chemists use and should be able to apply these models to help you predict chemical behavior.

**GOALS:** To be successful in this course, the goals that you should work towards are:

1. Obtaining knowledge about the composition, structure, properties, and reactivity of a range of chemical substances.
2. Understanding the basic models that scientists use to explain the observed composition, structure, properties and reactivity of matter.
3. Being able to demonstrate an ability to apply your knowledge and understanding of chemical matters appropriately and creatively.
4. Improving your skills in solving both qualitative and quantitative problems.

**TEXT:** Chemistry by Raymond Chang, 9th Edition

**EVALUATION:** During the semester, there will be five exams worth 100 points each for a total of 500 points. The fifth exam, the final exam, will be comprehensive and will cover the entire year's work. The course grade will be arrived at according to the following scale:

- A --- 448-500 points
- B --- 398-447 points
- C --- 348-397 points
- D --- 248-347 points
- F --- 0-247 points

Plus and minus assignments will be made within these ranges. Your success on these examinations will depend not only on the correctness of your answers but also on how you develop those answers. Attention to detail, clarity in presentation, and consistency in the application of the principles involved will all improve your point sum.

**POLICIES:** Your attendance at every class meeting is expected and is important to your ultimate success in the class. In instances in which an absence is unavoidable, you should contact me as promptly as you can to allow me to help as you work with the material missed.

You will be allowed to make up a missed exam only with an excused absence. If possible, you should let me know ahead of time if you are not able to take an exam at its scheduled time so that we can make plans to prevent you from falling behind. If the absence is not excused, you will receive no points for the exam.

You will be expected to have a calculator and should expect to bring it to class every day. Programmable features on calculators may not be used on exams, however.

The Honor Code, of course, governs your activities in this class, and all work turned in for grading must be pledged to be your own.

Problem sets will be assigned on a regular basis. Although these will not be turned in or graded, their completion is essential for your success in the class. An answer key will be made available, and I would strongly encourage you to discuss with me, either in class or in my office, questions that arise in your work with these sets. The

tutor will also be available. Ultimately, all material discussed in class and assignments given are your responsibility.

My door is always open to you for questions arising out of your work in this class, and I am very interested in helping you make a success of your work in general chemistry. Please feel free to come see me.

**GENERAL INFORMATION:** In this semester we will work our way through nine chapters in the text with the goal of helping you establish a substantial basis for your understanding of reaction chemistry. Our schedule will be:

Weeks 1-2            Chapter 11 (Liquids and Solids)

Weeks 3-4            Chapter 12 (Solutions)

**Exam I                    Friday, February 8**

Week 5                Chapter 13 (Kinetics)

Weeks 6-7            Chapter 14 (Equilibria)

**Exam II                    Friday, February 29**

Weeks 8-10            Chapters 15-16 (Acids and Bases)

**Exam III                    Friday, March 28**

Weeks 11-12            Chapter 19 (Oxidation-Reduction)

Week 13-14            Chapter 18 (Thermodynamics)

**Exam IV                    Wednesday, April 23**

**Final Exam                TBA**

Please mark the exam dates on your calendar and make your plans appropriately.