SE '03

Course Title:	**College Chemistry 103** 30
Term:	**Spring 2003**
Location:	Tripler Hospital
Time:	M W 7:50 - 9:55 p.m.
Instructor:	Ada Tomosada
Communications:	telephone 734 9424 (leave voice message MWTTH but not after 5 pm)
Textbook:	**Principles and Applications of Inorganic, Organic & Biological Chemistry** Caret, Denniston, and Topping, 1997

Course Description:

College Chemistry 103 is an introductory course for students who may be interested in continuing their education in the sciences or other technological fields. The course lecture along with laboratory work is a step by step procedure in introducing science methods and concepts to the student who has little or no chemistry background.

Course Objectives:

This course is designed to familiarize you with the concepts of chemistry that may be used as a basis for other more intensive courses in the science field.

The course will cover the first ten chapters of the textbook.

Course Requirements:

Scientific calculator is required. Concurrent enrollment in Chemistry 103L, and high school algebra is recommended.

Only registered students will be allowed to attend classes.

Grading:

A quiz will be given after each chapter, except the first quiz which will cover chapters 1 and 2. These quizzes wil usually be given on Wednesday. Homework assignments will be given, and should be done in preparation for quizzes. A final exam will be given on the last day of class. Calculators are allowed during quizzes and final exam. **All work must be shown for full credit.**

Grading breakdown is as follows: 55% quizzes, 35% final exam, 10% attendance and attitude. Letter grades will be assigned according to a class curve.

Tentative Class Timetable:

Week 1 (4/7 - 4/9)	Chapter 1 Chemistry Methods and Measurements Chapter 2 The Structure of the Atom
Week 2 (4/14 - 4/16)	Chapter 3 Elements, Atoms and the Periodic Table (quiz 1 Chapt 1,2)
Week 3 (4/21 - 4/23)	Chapter 4 Structure and Properties of Ionic and Covalent Compounds (quiz 2 Chapt 3)
Week 4 (4/28 - 4/30)	Chapter 5 Calculations and the Chemical Equation (quiz 3 Chapt 4)
Week 5 (5/5 - 5/7)	continue Chapter 5 Chapter 6 States of Matter (quiz 4 Chapt 5)
Week 6 (5/12 - 5/14)	continue Chapter 6 Chapter 7 Reactions and Solutions (quiz 5 Chapt 6)
Week 7 (5/19 - 5/21)	continue Chapter 7 Chapter 8 Chemical and Physical Change (quiz 6 Chapt 7)
Week 8 (holiday - 5/28)	continue Chapter 8
Week 9 (6/2 - 6/4)	Chapter 9 Charge-Transfer Reactions (quiz 7 Chapt 8)
Week 10 (6/9 - 6/11)	Chapter 10 Radioactivity and Nuclear Medicine (quiz 8 Chapt 9)
Week 11 (6/16)	Final Exam and quiz 9 Chapt 10

Course Title: **College Chemistry Lab 103L**

Term: Spring 2003

Time: Saturday 8:00 - 12:10 am

Location: Chaminade Main Campus Henry Hall

Instructor: Ada Tomosada

Lab Manual:

There is no lab manual. Handouts will be provided by the instructor.

Objectives:

Together with Chemistry 103 lecture section, the lab section is designed to enhance your understanding of scientific methods and concepts. Experimental work brings a practical understanding of chemistry and hands-on experience in different techniques.

Safety Requirements:

Students are required to practice safety precautions such as wearing safety glasses while performing experiments. **Also covered shoes are required**, and long pants is recommended. Hair must be tied back away from the face. It is suggested that the student wear very casual attire since clothing is easily soiled during laboratory work.

Only registered students will be allowed in the laboratory.

Grading:

There will be nine experiments performed and therefore nine lab reports to be handed in. (Lab reports are to be handed in on the following lab meeting.) A quiz will be given at the beginning of each lab session starting on the second lab meeting. This quiz will cover the experiment done the previous week. A final exam will be given on the last lab meeting covering all material.

Grading breakdown is as follows: 35% lab participation and reports, 30% lab quizzes, 15% attitude (following safety requirements, etc.), 20% final exam. Make-up labs will be offered with valid excuse.

Tentative Lab Schedule:

Week 1 (4/12)	Introduction to Measurements
Week 2 (4/19)	A Graphic Experience
Week 3 (4/26)	Preparation of Soap
Week 4 (5/3)	Empirical Formula
Week 5 (5/10)	Stoichiometry
Week 6 (5/17)	Conservation of Matter
Week 7 (5/24)	Holiday (Memorial Day)
Week 8 (5/31)	Spectrophotometry
Week 9 (6/7)	Acid - Base Titration
Week 10 (6/14)	Final Exam