Course title : College Chemistry Lab 103L

Term: Winter 1999 January 11 - March 24

Time: Saturday 800 - 1210

Location: Chaminade Main Campus Henry Hall

Instructor: Ada Tomosada

Lab Manual:

There is no lab manual. Hand-outs 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 and long pants are 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 experiment performed and therefore nine lab reports to be handed in. Also a quiz given at the beginning of each lab session starting on Jan 23. The last quiz will be given on March 13 and a final exam on March 20.

Grade breakdown:

Lab participation and reports 50%, Lab quizzes 30%, attitude (following safety requirements, etc.) 25%

No lab make-ups will be offered except under extreme circumstances.

Lab schedule:

Week 1	Jan 16	Introduction to Measurements
Week 2	Jan 23	A Graphic Experience
Week 3	Jan 30	Preparation of Soap
Week 4	Feb 6	Determination of Empirical Formula
Week 5	Feb 13	Conservation of Matter
Week 6	Feb 20	Stoichiometry
Week 7	Feb 27	Physical and Chemical Properties
Week 8	March 6	Spectrophotometry/Ammonia Fountain
Week 10	March 13	Acid-Base Titration
Week 11	March 20	Final Exam

Course Title: College Chemistry 103

Term: Winter 1999 January 11 - March 24

Time: Monday and Wednesday 1730 - 1935

Location: Tripler Bldg 102

Instructor: Ada Tomosada

Communications: telephone 735 4872
e-mail atomosad@chaminad.edu

Textbook: Caret, Denniston, and Topping, 1997 **Principles and Applications** of Inorganic, **Organic** & Biological **Chemistry**

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 students who has little or no chemistry background.

Course Objectives:

This course is designed for familiarized 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:

Concurrent enrollment in Chemistry 103L is required by Chaminade University, and high school algebra is recommended.

Only registered students will be allowed to attend classes

Grading:

A quiz will be given after each chapter. Homework assignments will be given and collected the on following class meeting. (a homework assignment will be given on Jan 11) 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 on paper for homework, quizzes, and final exam.

Grading breakdown is as follows: 50% quizzes, 30% final exam, 10% homework, 10% attendance and attitude.

Letter grades will be assigned according to a class curve.

Tentative Class Timetable:

Week 1	Jan 11,13	Chapt 1 Chemistry Methods and Measurements
	Jan 20	Chapt 2 The Structure of the Atom
Week 2	Jan 26,27	Chapt 3 Elements, Atoms and the Periodic Table
Week 3	Feb 1,3	Chapt 4 Structure and Properties of Ionic and Covalent Compounds
Week 4	Feb 8,9	Chapt 5 Calculations and the Chemical
Week 5	Feb 17	Equation
Week 6	Feb 22,24	Chapt 6 States of Matter
Week 7	March 1,3	Chapt 7 Reactions and Solutions
Week 8	March 8, 10	Chapt 8 Chemical and Physical Change
Week 9	March 15,17	Chapt 9 Charge-Transfer Reactions
Week 10	March 22	Chapt 10 Radioactivity and Nuclear Medicine Review for final exam
Week 10	March 24	Final exam