CHEMISTRY 104
INTRODUCTORY CHEMISTRY II
LABORATORY SCHEDULE

#81064 T 2:00 pm – 4:50 pm **Spring 2003** **#81065 W 11:00 am – 1:50 pm**

Week	Month	Dates (T, W)	Title	Comments
1	JAN.	28, 29	**CHECK IN** / Introduction / Safety Video Procedures / Notebooks *Before next lab, View "Pipet" and "Titration" Videos* *in the Learning Resource Center: SB 408 (818-677-2033)*	Go to LRC to view "Pipet" and "Titration" Videos *Go to LRC in SB 408* *(818-677-2033)*
2	FEB	4, 5	^Analysis of Vinegar	Last day to drop **Friday 02/07/03**
3	"	11, 12	^Electrolytes and Non-electrolytes	**NOTE: Weeks 4, 5 and 10 have two labs scheduled**
4	"	18, 19	^Net Ionic Reactions; Chem Equil and Le Chatelier's Principle	
5	"	25, 26	^The Equilibrium Game; Measurement of pH and buffers	
6	MAR	4, 5	Chemical Equilibrium (iron(III) thiocyanate formation)	
7	"	11, 12	**Properties of Ionic Substances (Day1)	**LAB REPORTS ARE DUE EITHER THE SAME DAY OR ONE (1) WEEK AFTER LAB IS COMPLETED**
8	"	18, 19	**Properties of Ionic Substances (Day2)	
9	"	25, 26	**^Activity Series; Organic Alkyl Groups**	
10	APR	1, 2	**Redox Titration	
11	"	8, 9	**Organic Functional Groups	
12	"	15, 16	SPRING BREAK – NO LAB	**LATE REPORTS WILL BE ACCEPTED 1 DAY LATE WITH A 10% PENALTY. AFTER 1 DAY, NO LATE REPORTS WILL BE ACCEPTED.**
13	"	22, 23	**Preparation of Aspirin and Oil of Wintergreen	
14	MAY	29, 30	+Yield and Melting Temperature of Aspirin	
15	"	6,7	**REVIEW FOR FINAL EXAMS (NO LAB)**	
16	"	13, 14	**LABORATORY FINAL; CHECK OUT**	
17	"	23	**LECTURE FINAL EXAM** (Tues 5/20/03 8:00 am – 10:00 am)	

(**) Mandatory Lab: Unknown to be determined (^) Permission to use from L.A. Mission College (+) Product to be turned in

Texts: Laboratory Text: *CSUN Chemistry 104 Laboratory Manual, Spring 2003, 8th Edition (only).* Read all appendices.

Required: Quad-ruled, sewn notebook; CSUN Chemistry Department approved safety goggles, protective clothing, $20 lab deposit. Nonprogrammable calculator with log, antilog, exp features. **Do not bring programmable calculators to lecture or lab**.

Special Note: Laboratory work must be completed during the scheduled laboratory period for which the student is enrolled. The student must do all experiments to complete the course work. **DO NOT** make medical or dental appointments, employment commitments, etc. during your scheduled lab period. Lab work generally requires all of the allotted time. **There are no make-up labs.**

Grading: There is no separate grade given for the laboratory portion of Chemistry 104. Points earned in laboratory will be normalized to a maximum of 150 and combined with those points earned in lecture in order to determine the final grade for the course. Points will be earned in lab according to the following *tentative* schedule:

Lab reports	55
Unknowns or products	60
Quizzes/final (75/25)	100
Personal evaluation	15
Total	230

YOUR SCORE X $\frac{150}{230}$ = LAB SCORE

CHEMISTRY 104 LABORATORY

Catalog Description: Chemistry 104, 104L. Introductory Chemistry II (4)
Prerequisite: Chemistry 103. A continuation of Chemistry 103. A course for non-science majors. Properties of solutions, chemical equilibrium, acids, and bases. The chemistry of simple organic compounds and common elements. Three hours of lecture and three hours of laboratory (with quiz and recitation) per week. Not open to science and engineering majors. Students using this course to satisfy a General Education requirement in Natural Sciences will automatically satisfy the laboratory requirement.

General Education: This course is one of several choices for the Gen. Edu. requirement in Section B: Natural Sciences. Goals: Students should gain basic knowledge and learn key principles in the biological and physical sciences. In addition, students should recognize the unique role experiments play in adding to scientific knowledge, and should understand modern methods and tools used in scientific inquiry.

Lab: This laboratory is designed as an integral part of the Chemistry 104 course. It provides the student "hands on" experience that supplements the theoretical study of the lecture and introduces the student to techniques, equipment and thought processes of the chemical scientist.

While every effort is made to coordinate lecture and laboratory some topics lend themselves better to lecture and others to lab. Thus during the semester, there will be times when the lecture and lab appear to be only nominally related, but by the end of the semester all the parts will fit together.

The schedule on the reverse side indicates the sequence of the experiments and the location of the experiments. You, the student, have a solemn responsibility to be prepared to begin work the minute the lab instructor directs you to do so. This means that before you enter the laboratory, **you must read and reread the lab instructions** (perhaps many times) until you understand what you are to do. (It may help to jot down the steps on a 3/ x 5" card to use to jog your memory in the lab.) Before lab you must **also** prepare your laboratory notebook so that you can record data properly in it.

Repeat: Students who repeat Chemistry 104 are required to repeat the entire course. (This includes the laboratory, however, at the discretion of the lecture instructor the repeat laboratory requirement may be waived for those students who did very well in the Chemistry 104 laboratory during the previous semester.)

Academic Honesty: Academic honesty and integrity is especially important in a laboratory course. Please review the comments on *academic dishonesty* found in the CSUN catalogue.

Other Course Information:

Circle One: Ticket No. 81064 (T 2-5) or 81065 (W 11-2)

Lab Instructor's name: _____ E-mail: _____

Office room number: _____ Office Hours: _____

Telephone numbers: _____ or (818) 677-3381 (Chem Dept. phone number for messages).

Lecture Instructor: Dr. Sandra L. Jewett (sandra.jewett@csun.edu, www.csun.edu/~hcchm001, 818-677-4503, SC 3107)