

Instructor (**section 01**): David Lin Phone: 739-8543 Office: Henry Hall Room 6
Office Hours: TR 9:30 – 12:30, or by appointment
email: dlin@chaminade.edu

Course coordinator: Janet Jensen Phone: 735-4858 Office: Castle Science Bldg. Room 104
Office Hours: MWF 10:30-11:30 AM, Tu 8:00-9:00 AM, Th 1:00-2:00 PM
email: jjensen@chaminade.edu

CHAMINADE UNIVERSITY Fall 2004

CH 203L GENERAL AND ANALYTICAL CHEMISTRY LAB I

Lab Sections: Henry Hall 44

01	Th	2:00-4:50 PM	02	Tu	2:00-4:50 PM
03	F	2:00-4:50 PM	04	M	8:00-10:50 AM

Required Materials:

- | | |
|------------------------------|---------------------------------------|
| - <i>Catalyst</i> lab manual | - lab notebook (composition book) |
| - scientific calculator | - safety glasses and covered footwear |
| - gloves (optional) | - lab coat (optional) |

Course Description and Objectives: CH 203L is a one-credit laboratory course that accompanies the CH 203 lecture course. Students will perform experiments in the lab both individually and with partners. There will be class discussion on the theory, the techniques used and the expected results of each experiment. The purpose of this course is that students will develop practical lab skills and will be able to observe many of the principles discussed in lecture. *Concurrent registration in CH 203 is required.*

Grading: The course grade will be based on the total number of points earned from laboratory reports and pre-lab assignments (300 points), quizzes (100 points), laboratory notebook (50 points) and attendance (50 points). The lab reports will be evaluated for completion and accuracy of the information required. The notebooks will be checked in lab periodically. There will be four quizzes given over the semester; the material covered on each quiz will be announced in class.

The following grading scale will be used to determine the final grades:

A	90-100%	450-500 points	D	40-64%	200-324
B	80-89%	400-449	Fail	below 40%	below 200
C	65-79%	325-399			

Attendance: If a student is absent for a scheduled lab, it *may* be possible to attend another section in order to perform the experiment. Alternatively, a "dry lab" can be completed which will be worth a maximum of 80% of the total points for that experiment. The student should contact the instructor as soon as possible so that arrangements can be made. If no attempt is made to make up the missed work, a score of zero will be given for that experiment.

Important Lab Rules:

- Students must wear closed-toe shoes at all times.
- Safety glasses must be worn when lab work is being carried out.

- Eating, drinking, and smoking are not allowed at any time.
- Do not bring any food or drinks into the lab.

CH 203L Schedule of Experiments Fall 2004

WEEK/ DATES	EXPERIMENT	LAB MANUAL
1 8/23, 8/24, 8/26, 8/27	Lab check-in, Safety	1-7
2 8/30, 8/31, 9/2, 9/3	Measurements and Density	9-16
3 9/7, 9/9, 9/10 Monday holiday	Nomenclature worksheet	
4 9/13, 9/14, 9/16, 9/17	Separation of the Components of a Mixture QUIZ #1	17-25
5 9/20, 9/21, 9/23, 9/24	The Formula of a Hydrate	27-32
6 9/27, 9/28, 9/30, 10/1	Chemical Reactions of Copper	33-41
7 10/4, 10/5, 10/7, 10/8	Chemical Reactions QUIZ #2	43-51
8 10/12, 10/14, 10/15 Monday holiday	To be announced	
9 10/18, 10/19, 10/21, 10/22	Titration of Acids and Bases	53-64
10 10/25, 10/26, 10/28, 10/29	Heats of Reaction	65-76
11 11/1, 11/2, 11/4, 11/5	Atomic Fingerprints QUIZ #3	77-91
12 11/8, 11/9, 11/12 Thursday holiday	To be announced	
13 11/15, 11/16, 11/18, 11/19	Molecular Geometries of Covalent Molecules	93-110
14 11/22, 11/23 Thursday, Friday holidays	To be announced	
15 11/29, 11/30, 12/2, 12/3	QUIZ #4	

Any changes will be announced in class.