Instructor: Dr. Carl Hoeger  
Time: 2-5 PM T/Th in NS-338  
Phone: (760) 744-1150, ext. 5261 (?)  
E-mail: choeger@palomar.edu  
Web Page: http://daphne.palomar.edu/choeger plus BB (?)  
Office Hours: Immediately prior to lab and by appointment

Required Textbook and Materials: a) Experiments in General Chemistry, Ninth Edition, by Wentworth (be sure your copy contains ALL the experiments). b) An inexpensive scientific calculator is required; cell phones or PDA’s cannot be used as calculators. c) Safety glasses (Z-87) are required. d) An approved Lab Notebook (discussed first meeting). e) Other materials necessary (soap, towels, etc) will be discussed at the first meeting.

Grading Standards (point values are APPROXIMATE)

11 Lab Reports (incl. Worksheet with some) (25 per and Drop Lowest) ........................................ 250 points  
Unknowns (?; 20 each) .......................................................... 20-40 points (?)  
5 “Activity” Labs (10 each) .......................................................... 50 points  
3 Exams (100 each)................................................................. 300 points  
“Incidental” Items (pop quizzes, pop inspections, etc.) .......................................................... 30-60 points  
Technique/Attendance (20) ...................................................... 20 points  

APPROX Total Points ............................................................................... 620-720 points

REGARDLESS of actual number of points possible, the course grade will be based on the following approximate cutoffs:  
> 87% = A; >78% = B; >68% = C; >58% = D; below = F

Class Notes

- All students will have an APPROVED LAB NOTEBOOK, in addition to their experiment textbook. These must be quadrille ruled. ALL EXPERIMENTAL DATA GOES INTO THE LAB NOTEBOOK AS IT IS COLLECTED AND IS TO BE WRITTEN IN INK!

- A Lab report consists of THREE parts: i) Pre-lab Questions and Procedural Outline (see below; to be turned in BEFORE you start the lab; worth 5 pts); ii) Experiment data and analysis; and iii) Post-lab questions. The last two are turned in when experiment is completed and are worth remaining 20 pts.

- In addition, you are to have, written in your lab notebook prior to coming to lab, the following: a) Title of Experiment; b) Experiment reference; c) Purpose; d) Key chemical reactions and Equations; and e) Procedural outline. This WILL be checked prior to the beginning of the lab; if missing or incomplete you will be docked 5 points for the lab immediately (this will be subtracted from your overall score on the lab). If you come late to lab and the Pre-lab has already been turned in you also lose the points.

- Students work both individually and in small groups, but only when announced. Some experiments are done individually in groups (explained in class). Students are encouraged to interact with each other in understanding their observations, techniques and calculations; data however may NOT be shared (unless part of a group)! Answers to the post lab questions may NOT be shared (i.e. copied)

- Efficiency in the laboratory requires preparation; this includes reading the experiment prior to coming to lab! The student should plan on spending study time before each lab period.

- Prompt and regular attendance is expected. Lab starts at 2 PM SHARP and ends at 4:50 PM SHARP (meaning you must be out the door). Attendance will be taken at 2 PM; If you are not there you will be marked off 1 POINT FROM TECHNIQUE POINTS FOR EACH MINUTE YOU ARE LATE. ONCE YOU RUN OUT OF TECHNIQUE POINTS THEY WILL BE DEDUCTED FROM THE LAB
• THREE unexcused absences will result in your failing the course. You MAY be dropped for excessive absences. IT IS YOUR DUTY TO DROP THE CLASS; DO NOT EXPECT ME TO DO SO FOR YOU.

• All “wet” chemistry must be stopped at 4:20 PM. This will leave 25 minutes to clean up. All areas in the lab must be cleaned (hoods, benchtops, weighing room, sinks). Messy lab areas will result in the reduction of EVERYONE in the lab’s overall point total by 10 points for each occurrence.

• For “activity”-based labs: you MUST be in attendance to be able to receive the points. Worksheets will be due at periods end unless told otherwise.

• There are NO Make-Up Labs. If you miss an experiment, you will receive a “zero” for that lab.

• “Technique points” will be discussed at the first meeting. There are two types: subjective and objective. The ‘subjective’ points are purely subjective and as such are not open to discussion; reductions will be taken for not coming to lab prepared, not working well with others, etc. “Objective” points are point reductions taken for breaking glassware ($1 = 1 point), safety glasses violations (1 point per), etc. You start with 20 Technique points; ONCE THOSE ARE GONE POINT DEDUCTIONS COME OUT OF YOUR OVERALL TOTAL.

• Instructor must initial your laboratory data before you leave for the day or it will not be graded.

• All lab reports are due the next meeting following the completion of the experiment. Half credit for 12 hrs late; after that no points will be given for work (Score will be recorded as "0/Late"). Reports will not be accepted once they have been graded and returned.

• Experimental procedures will be discussed the first day.

• Three tests will be given and make ups will NOT be given except for serious and verifiable reasons. DOCUMENTATION FOR MISSING AN EXAM WILL BE REQUIRED. If a Make up exam is given, it must be taken within 48 hours of the original exam (NO EXCEPTIONS).

• Evidence of cheating will result in a zero score on any report and/or exam, and may result in an F grade for the course. A letter describing the incident will be placed in the students’ permanent academic record file. If you cheat on an exam, quiz, or lab report, you and the person from whom you have copied will both lose some or all of the points.

• Take safety exam online at www.palomar.edu/chemistry/ (the Safety Quiz Link will be found on the left side) before coming to the next lab. Bring the printout from the safety exam with a score of 100% to the next lab. Also take the Mettler Balance tutorial (but you do not need to bring proof of this). The safety certificate will be collected in order for you to obtain a locker and remain enrolled in this lab class. YOU WILL NOT BE PERMITTED TO DO ANY LAB WORK UNTIL THIS IS COMPLETED.

***QUICK NOTE ABOUT EXPERIMENTS***

There are two kinds of experiments: i) those found in the lab manual (they have a number in parentheses next to them, which is the page number) and ii) those that are HandOuts (labeled HO). ALL HO Experiments will be found at http://daphne.palomar.edu/choeger unless told otherwise. IF YOU DO NOT HAVE THEM PRINTED OUT OR HAVE THE WRONG ONES PRINTED OUT you will be asked to leave the lab and go get them or get a zero for that day.