

Materials: Purchased access to online lab materials and assignments through <http://webassign.net>  
ISBN 978-1-92-855080-8 General Chemistry Labs CHEM 1M and 1N \$25-\$37  
Lab notebook (makes duplicates); scientific calculator; goggles (purchase or use those provided in lab)

Grading:	Written procedure and data tables (7)	25%
	Online prelabs (7)	5%
	Online in-lab assignments (7)	35%
	Online reviews (7)	5%
	Formal abstracts (2)	10%
	Online quizzes (7)	10%
	Scholarship and week 1 worksheet	10%

If you are already enrolled by the first day of class, you have a spot in the lab as long as you are on time to your first lab meeting (late/absent students will be dropped). To pass this course, you must attend all lectures (and be on time), perform all experiments; turn in all pre-lab outlines/tables; submit all pre-lab, in-lab, and review assignments by the required due date/time; and, score at least 50% total on the online quizzes. Any changes to this grading scheme will be announced.

It is your responsibility to keep track of due dates and times. There is a 25%-per-day-late penalty for late work (this includes turning work in at the end of the lab period). Any extensions granted through WebAssign will be subjected to a minimum of 50% off up to 100% off (in rare cases, deductions will be less if the reason warrants special consideration).

Do not miss a lab session. You must notify the instructor and your TA in advance of an absence. You are responsible for finding a lab section that you can attend (not your usual one). *You must email the instructor, your TA, and the TA of the makeup section to let us know when you will come.* Make-ups must be performed no later than the following class meeting after the missed lab period, and documentation regarding the absence must be provided. Approved reasons for absence are medical emergencies, UCSC-sanctioned trips, and family funerals. If you do not arrange a makeup within the allotted time, you will not be able to complete the lab and you may fail the course.

You must submit original work; plagiarism/cheating will result in a failing grade in the course and possible disciplinary action.

Wearing goggles that fit snugly to the face is a must (safety glasses are not acceptable). Closed-toed shoes that cover the entire foot are required. Clothing must cover skin from the shoulders through the toes. No tank-tops, halter-tops, shorts, sandals, etc., are allowed. *No stretch pants or yoga pants or running tights.* No "modified" clothes such as feet in sandals in plastic bags.

The online pre-lab assignment must be completed by the specified time/date. You have 5 submissions in WebAssign, no deductions. You must also create a procedural outline or flowchart of the day's experiment in your lab notebook, along with your best attempt at data tables. If you do not complete these tasks, you will not receive credit (please see "Preparing for the Experiment" and the example online). Using a procedure printed from the manual will result in at least 25% off of all of the assignments associated with the experiment. No cell phones or electronic devices are allowed at the lab bench.

You must complete the online in-lab assignment by the specified due date/time. This assignment includes data, data analysis, results, and brief concept assessment questions. Significant figures will be graded, as will calculations. *Incomplete assignments will result in at least 50% off of the assignment. If values are nonsensical and/or incorrect (and it is not due experimental issues), you will lose at least 50% of the points.* You have 10 submissions in WebAssign, no deductions.

Review assignments are posted online. You must complete these questions by the specified due date/time. You have 5 submissions in WebAssign, -10% after the first submission (per question).

Online lab quizzes will be available 24 hours before your lab starts and will be due 3 hours before your lab begins. Questions may require calculations and/or short answers. The quizzes refer to the previous lab (to check your understanding) and the current lab (to check your preparation). Please use a calculator only. The quizzes must be completed independently. You have 5 submissions in WebAssign, -10% after the first submission (per question)

Two abstracts will be collected for the specified experiments. An abstract is a brief statement discussing procedure, results, and error analysis. Please consult with your TA on the format and content. The abstracts are due at the BEGINNING of the next lab period.

Your TA is your first and primary contact. Make sure you have his/her contact information. You are highly encouraged to attend office hours, which will be announced in your lab section. You must log in to WebAssign using the class key (to be provided) before the second week of lab. If you have questions, please email your TA first and as soon as possible.

Date	Exp. #	Title
6/23	---	Requirements, locker check-in, safety, webassign; worksheet
6/25	3	Thermodynamics/Hess's law
6/30	5	Unknown Acid Analysis – <b>abstract</b>
7/2	8	Acids, Bases, and Buffers
7/7	10	$K_{sp}$ Determination for $\text{Ca}(\text{OH})_2$
7/9	11	Spectroscopic Determination of $K_{eq}$ – <b>abstract</b>
7/14	13	Electrochemistry
7/16	7	Freezing Point Depression; Check-out

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Online Assignment Type	First Visible	Due
Inlab	0 min after previous lab ends	12 hr 2 min before next lab meets
Review	0 min after previous lab ends	12 hr 1 min before next lab meets
Prelab	0 min after previous lab ends	12 hr before next lab meets
Quiz	24 hrs before current lab	3 hrs before current lab meets
Written Proc Outline/Tables	consult eBook	at the start of the current lab

Sec	Days	Time	Location	Class Key
01A	TuTh	12:00PM-03:00PM	Nat Sci 2 283	ucsc 1483 7733
01B	TuTh	12:00PM-03:00PM	Nat Sci 2 289	ucsc 0641 3108
01C	TuTh	03:30PM-06:30PM	Nat Sci 2 283	ucsc 2802 9541
01D	TuTh	03:30PM-06:30PM	Nat Sci 2 289	ucsc 9856 6264