

General Chemistry Laboratory II

CHEM 162L

Instructor: T. Hemscheidt
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Bilger 321B

Lead TA: Keegan Gotto

Section TA: To be assigned

How to communicate with us: We have set up a google form, which is designed to capture some of the information we need in order to be able to deal with your requests. Please use the form so that there is not an extended back-and-forth. The link to that form can be found under “Announcements” under CHEM 162L in your Lulima account.

The General Chemistry II lab is designed to continue to introduce you to basic concepts of quantitative and qualitative measurement, with a heavier emphasis on quantitative measurement than in CHEM 161L.

To save you the expense of a textbook, the Chemistry Department has prepared a laboratory manual which is available in the UH Manoa bookstore.

General Chemistry Laboratory 162L Custom Edition for UH Manoa
Pearson, 2nd edition, 2013 ISBN: 9781256785767

Laboratory schedule: the Schedule for laboratories is attached

How we communicate with you: Your TA, the head TA or I myself will communicate with you through Lulima/email to your hawaii.edu email address. It is your responsibility to monitor that address. If you wish to respond, please do this from your hawaii.edu email address so that your message does not end up in the SPAM folder.

Laboratory Safety: There will be up to 24 students per section. In order to be able to conduct the lab safely, there are a few rules:

No horseplay! If we catch you fooling around, you'll be kicked out of the day's lab with a score of ZERO. I will decide whether the infraction warrants further punishment.

You are required (no exception, don't even dream of asking) to come to lab with proper attire, which includes ALL of the following: knee-length pants or skirts (I decide what constitutes knee-length, not you. My decision is final), close-toed shoes, safety goggles

(to be worn at all times inside the lab), long hair tied back, tops & shirts that cover the shoulders and mid-riff.

No cell phone use in the lab, no cell phones on the lab benches. Your cell must be switched off and stowed away for the duration of the lab.

How the lab runs: We run many labs concurrently on a tight schedule. In order to get you through in a timely fashion, so we do this “one size fits all” and it is your responsibility to adjust your schedule to that of the lab or withdraw from the course. **BE ON TIME, BECAUSE WE START ON TIME.**

The lab starts with a brief quiz covering questions from the previous week’s lab and of the day’s lab. You should therefore have read and understood the manual. The TA may also go through some lecture material that the CHEM 162 lecture instructors have provided.

Next, the TA will give a brief presentation on the days’ lab. Then it’s your time to shine and do the experiment. You will be working in groups of two. Make sure that you have all data and understand all the things you have done so that you can write the lab report.

Grading: The lab report is due at the beginning of the following lab period a week later. **Late reports will be marked down 20%/day.** The lab reports will be graded and returned to you for you to track where you stand and to improve your work if necessary.

The final grade will be computed on the basis of the following distribution:

Quiz	20%
Homework	20%
Experiment & Lab Report	60%

Absences, make-up labs: Unexcused absences will yield a score of ZERO for the week. There will be NO MAKE-UP labs for ANY reason. If you miss more than two labs you will not earn a passing grade, NO EXCEPTIONS. Excused absences (court date, funeral, professional trip, athletic event) require PRIOR authorization by me. I decide what constitutes an excuse.

ACADEMIC DISHONESTY: I have a zero tolerance for plagiarism and any other form of submission of the work of others as your own. We catch you, you will be in a world of hurt, starting with a grade of “F” for the entire course.

Week	Dates	Monday	Tuesday	Wednesday	Thursday	Friday
1	08/26-08/30	Check-in & Safety	Check-in & Safety	Check-in & Safety	Check-in & Safety	Check-in & Safety
2	09/02-09/06	<i>Labor Day Holiday</i>	Basic lab techniques	Basic lab techniques	Basic lab techniques	Basic lab techniques
3	09/09-09/13	Basic lab techniques	Freezing Point Depression	Freezing Point Depression	Freezing Point Depression	Freezing Point Depression
4	09/16-09/20	Freezing Point Depression	Rate Law	Rate Law	Rate Law	Rate Law
5	09/23-09/27	Rate Law	Rate Law II	Rate Law II	Rate Law II	Rate Law II
6	09/30-10/04	Rate Law II	Equilibrium Constant	Equilibrium Constant	Equilibrium Constant	Equilibrium Constant
7	10/07-10/11	Equilibrium Constant	Acid-Base titrations	Acid-Base titrations	Acid-Base titrations	Acid-Base titrations
8	10/14-10/18	Acid-Base titrations	Weak Acids & Bases & Salts	Weak Acids & Bases & Salts	Weak Acids & Bases & Salts	Weak Acids & Bases & Salts
9	10/21-10/25	Weak Acids & Bases & Salts	Hydrolysis of salts	Hydrolysis of salts	Hydrolysis of salts	Hydrolysis of salts
10	10/28-11/01	Hydrolysis of salts	Dissociation constant	Dissociation constant	Dissociation constant	Dissociation constant
11	11/04-11/08	Dissociation constant	Solubility Product	Solubility Product	Solubility Product	Solubility Product
12	11/11-11/15	<i>Veterans Day Holiday</i>	Redox Titration	Redox Titration	Redox Titration	Redox Titration
13	11/18-11/22	Solubility Product	Electrochemical Cells & Thermo	Electrochemical Cells & Thermo	Electrochemical Cells & Thermo	Electrochemical Cells & Thermo
14	11/25-11/29	Redox Titration	---	---	<i>Thanksgiving Day</i>	<i>Non-instructional</i>
15	12/02-12/06	Electrochemical Cells & Thermo	---	---	---	---