

# General Chemistry Laboratory II

CHEM 162L

Instructor: Daniel Brayton

Contact: [dbrayton@hawaii.edu](mailto:dbrayton@hawaii.edu)

Bilger 213

**How to communicate with us:** Email is best, mine is above and your TAs can be found on the UH chemistry department webpage (<http://manoa.hawaii.edu/chem/position/teaching-assistant/>).

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.

The laboratory manual is available 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 posted on laulima (and at the bottom of this document)

**How we communicate with you:** Your TA or I will communicate with you through Laulima or 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, and TA points 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 DOCUMENTATION (some kind of official paperwork, NOT a boarding pass) PRIOR authorization by me. I decide what constitutes an excuse. *Think of each lab as an exam in your lecture courses!*

**ACADEMIC DISHONESTY:** I have a zero tolerance for plagiarism and any other form of submission of the work of others as your own. If we catch you, you will be getting a grade of “F” for the entire course.

**Chem 162L  
Spring 2018**

Date	Monday	Tuesday	Wednesday	Thursday	Friday
Jan 8-12	No Lab	No Lab	No Lab	No Lab	No Lab
Jan 15-19	Martin Luther King Day	Safety	Safety	Safety	Safety
Jan 22-26	Safety	Basic Lab Techniques	Basic Lab Techniques	Basic Lab Techniques	Basic Lab Techniques
Jan 29-Feb 2	BLT & FPD	Freezing Pt. Depression	Freezing Pt. Depression	Freezing Pt. Depression	Freezing Pt. Depression
Feb 5-9	Rate Law 1	Rate Law 1	Rate Law 1	Rate Law 1	Rate Law 1
Feb 12-16	Rate Law 2	Rate Law 2	Rate Law 2	Rate Law 2	Rate Law 2
Feb 19-23	Presidents Day	No Lab	No Lab	No Lab	No Lab
Feb 26-Mar 2	Weak Acids & Bases	Weak Acids & Bases	Weak Acids & Bases	Weak Acids & Bases	Weak Acids & Bases
Mar 5-9	Acid-Base Titration	Acid-Base Titration	Acid-Base Titration	Acid-Base Titration	Acid-Base Titration
Mar 12-16	Hydrolysis	Hydrolysis	Hydrolysis	Hydrolysis	Hydrolysis
Mar 19-23	Dissociation Constant	Dissociation Constant	Dissociation Constant	Dissociation Constant	Dissociation Constant
Mar 26-30	Spring Recess	Spring Recess	Spring Recess	Spring Recess	Spring Recess
Apr 2-6	Solubility Product	Solubility Product	Solubility Product	Solubility Product	Solubility Product
Apr 9-13	Vitamic C Titration	Vitamic C Titration	Vitamic C Titration	Vitamic C Titration	Vitamic C Titration
Apr 16-20	Electrochemical Cells	Electrochemical Cells	Electrochemical Cells	Electrochemical Cells	Electrochemical Cells