CHEM 1M, General Chemistry Lab, UC Santa Cruz

Please see the Syllabus page in Canvas, too

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Materials:

- Purchased access to online WebAssign lab materials and assignments at http://webassign.net (ISBN 978-1-92-855080-8 General Chemistry Labs CHEM 1M and 1N). Your TA will provide the section-specific WebAssign class key at your first section. Please register that class key using your legal name and correct student ID number (#######) before the second section meets. Your correct student ID must be associated with your WebAssign account.
- Lab notebook that makes duplicate copies (available at the bookstore or online retailers); scientific calculator; Microsoft Excel® (available for download @ucsc.edu credentials at https://its.ucsc.edu/software/student-software.html)

Grading (subject to updates)*:

Written prelabs	14%	in lab notebook
Scholarship	24%	arrival time, preparedness, in-lab actions, etc.
WebAssign inlabs	42%	in WebAssign
Canvas videos	8%	in Canvas
Written abstracts	12%	in Canvas and/or print copy (TBA)

*Because lab is a hands-on experience where you get the opportunity to link experiment with concepts and calculations, please attend all lab sections and turn in all assignments to pass the course.

Your TA (your first and primary contact):

Make sure you have their contact information. **If you have questions, please email your TA first as soon as you can.** It is okay to email all of us, too. That we can get you the help you need as soon as possible. We can also set up office hours for you if you contact us. We do ask that you allow us enough time to respond to your request.

Attendance:

We require that you attend the section in which you are officially enrolled.* Please arrive on time ready to participate fully in the lab section in the correct attire with your assignments for that class meeting completed.

*If you get into the course after the first section meets, please contact your TA so that you are ready for the next section meeting.

Absences:

Please do not miss section.* Due to safety, space, and capacity constraints, we are not able to provide make-up opportunities (*e.g.*, we cannot permit you to attend a different section nor can we keep equipment/reagents/etc. available).

*If you must be absent, you must notify us (the instructor and your TA) in advance. Deductions may apply. All absences will be reviewed on a case-by-case basis. If you do not contact the instructor and TA in a timely manner, you may not be able to complete the assignments. This can result in a non-passing course grade.

*Please do not attend if you are sick. Please email the instructor and your TA for accommodations.

Assignments:
We use WebAssign, Canvas, and written paper submission for course assignments. Please note that it is your responsibility to keep track of due dates and times. Deductions for late work, including turning work in at the end of the lab period, are generally a minimum of 25% per day. Please submit original work; plagiarism/cheating will result in a failing grade in the course and possible disciplinary action.

The course materials are the intellectual property of their creators. As a student, you have access to course materials for the purpose of learning, engaging with your peers in the course, completing assignments, etc. You have a moral and legal obligation to respect the rights of others by only using course materials for purposes associated with the class. For instance, you are not permitted to: share, upload, stream, sell, republish, or share the course login information for; disseminate any of the course materials (*e.g.*, video and audio files, assignments or assignment prompts, slides, notes, handouts, procedures, syllabus, simulations, data sets, discussions, etc.).

Written procedure and data tables (WP+DTs):
Please complete each **pre-section WP+DT** before the section during which you will complete that experiment; please see the instructions in Canvas. Your assignment will be checked the start of section; you may be asked to turn in your assignment after completing the experiment.

WebAssign assignments:
Please complete the **online inlab assignments in WebAssign** by the specified due date/time. This assignment includes data, data analysis, results, and brief concept assessment questions. Calculations and significant figures are graded. Your TA will score the free-response questions after the assignment closes. You have **10 submissions per answer blank in WebAssign**, no deductions. *Inlabs that are incomplete and/or contain nonsensical or incorrect values generally result in a minimum of 50% off.*

Written abstracts:
You will write two **abstracts** for specified experiments and submit your work in Canvas (this may change to on paper) by the start of the next lab section. An abstract is a brief statement discussing procedure, results, and error analysis. Please see the guidelines and rubrics in Canvas and consult with your TA on the format and content.

Scholarship points:
Lab settings are dynamic where Principles of Community are critical. It is important that you act according to rules and regulations that keep you safe, that allow for effective learning, and that show

respect for your lab mates, TA, instructor, and staff as well as chemicals/reagents, equipment, glassware, instrumentation, facilities, and waste.*
*If your actions are not those compatible with effective and safe lab work, you may lose scholarship points (and may be asked to leave the lab).

Accommodations through the DRC:
UC Santa Cruz is committed to creating an academic environment that supports its diverse student body. If you are a student with a disability who requires accommodations to achieve equal access in this course, please submit your Accommodation Authorization Letter from the Disability Resource Center (DRC) to your TA privately during office hours, before or after section, or by appointment, preferably within the first two weeks of the quarter. We can also discuss ways to ensure your full participation in the course. We encourage all students who may benefit from learning more about DRC services to contact DRC by phone at 831-459-2089 or by email at drc@ucsc.edu.

Service animals:
Please notify us as soon as possible if you have a service animal who will be coming to lab with you. Please include details (*e.g.*, species, breed/size, physical proximity needs, etc.). We want to keep you and your companion safe.

For more information on other policies and resources, please see the document available in Canvas (Campus resources and policies).

Schedule (subject to updates):

Date	Exp.	Title	Due by the start of your section
6/21	---	Introduction, course policies, first WP+DT, etc.	Please read the procedure for lab #1 *You will work on WP+DT for lab #1 in section.
6/23	1	Density	Lab room video and lab locker video in Canvas Intro to WA and tutorials in WebAssign WP+DT lab #1 (lab notebook) Density and pycnometry video in Canvas
6/28	2	Empirical formula*	Inlab #1 and review #1 in WebAssign WP+DT lab #2 (lab notebook) Empirical formula video in Canvas
6/30	4	Antacid analysis	Inlab #2 and review #2 in WebAssign *Abstract lab #2 in Canvas WP+DT lab #4 (lab notebook) Intro to the buret and titration video and Intro to volumetric pipets and flasks video in Canvas
7/5	6	Atomic emission	Inlab #4 and review #4 in WebAssign WP+DT lab #6 (lab notebook) Review Using Excel for Slopes and Graphical Analysis file in Canvas
7/7	9	Allura red*	Inlab #6 and review #6 in WebAssign WP+DT lab #9 (lab notebook) Intro to the Spec 20 in Canvas
7/12	12	Kinetics	Inlab #9 and review #9 in WebAssign *Abstract lab #9 in Canvas WP+DT lab #12 (lab notebook)
7/14	14	Vitamin C analysis	Inlab #12 and review #12 in WebAssign WP+DT lab #14 (lab notebook) Inlab and review #14 will be discussed