

Chemistry Department, University of California, Santa Cruz
General Chemistry Lab

Chemistry 1N,

****this is still in progress****

Materials: Purchased access to online lab materials and assignments
through <http://webassign.net>

[\(Links to an external site.\)](#)

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)

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|----------|---------------------------------------|-----|
| Grading: | Written procedure and data tables (7) | 35% |
| | Online prelabs (7) | 5% |
| | Online in-lab assignments (7) | 35% |
| | Online reviews (7) | 5% |
| | Formal abstracts (2) | 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 perform all experiments**; turn in all pre-lab outlines/tables; and, finish and submit all pre-lab, in-lab, and review assignments by the required due date/time.* 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.** However, if you must be absent, you must notify the instructor and your TA in advance of an absence. A makeup experiment cannot be offered, but you will be allowed to use your partner's data to complete the assignments. Full credit is possible if the reason for the absence is approved; for an unapproved reason, you must complete the assignments for a maximum of 10% credit on each. You must finish the assignments. Approved reasons for absence are illness or injury emergencies requiring immediate medical attention, UCSC-sanctioned trips, and immediate family funerals. Missing two or more experiments will result in a non-passing course grade. 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 will not be able to complete the assignments 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 (Written Procedure/Data Tables, WPDT) of the day's experiment in your lab notebook, along with your best attempt at data tables. Please see the more thorough description in the file, *WrittenProceduresDataTables2017.pdf*. If you do not complete these tasks, you will not receive credit. 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).

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 can attend any and all TA office hours. 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.

Faculty Supervisor: Dr. Randa Roland 459-5486 Thimann 317
randaro@ucsc.edu

| Week of | Exp. # | Title |
|-----------|--------|---|
| 1/9-1/11 | --- | Requirements, locker check-in, safety, webassign; worksheet |
| 1/16-1/18 | 3 | Thermodynamics/Hess's law |
| 1/23-1/25 | 5 | Unknown Acid Analysis – abstract |
| 1/20-2/1 | 8 | Acids, Bases, and Buffers |
| 2/6-2/8 | 10 | K _{sp} Determination for Ca(OH) ₂ |

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|-----------|----|--|
| 2/13-2/15 | 11 | Spectroscopic Determination of K_{eq} – <i>abstract</i> |
| 2/20-2/22 | 13 | Electrochemistry |
| 2/27-3/1 | 7 | Freezing Point Depression; Check-out |

| Online Assignment Type | First Visible | Due |
|--------------------------------|---------------------------------|---------------------------------|
| Inlab | 0 min after previous lab begins | 12 hr 2 min before next lab day |
| Review | 0 min after previous lab ends | 12 hr 1 min before next lab day |
| Prelab | 0 min after previous lab ends | 12 hr before next lab day |
| Written Proc Outline/Tables | consult eBook | at the start of the current lab |

| TA | email | Office hour information |
|------------------|-------------------|--|
| Staci Adams | staadams@ucsc.edu | Th 10:00 am-11:00 am PSB 341 & by appt. |
| Stephanie Holmes | sgholmes@ucsc.edu | Tu 12:00 pm-1:00 pm Thimann 345 & by appt. |
| Anna Johnston | ajohnst3@ucsc.edu | Mon 9:00 am-10:00 am PSB 341 & by appt. |
| Danai Moschidi | dmoschid@ucsc.edu | Mon 10:00 am-11:00 am PSB 459 & by appt. |

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|--------------|--|---|
| Kaitlyn Vian | kvian@ucsc.edu | Th 12:00 pm-1:00 pm in Thimann 345 & by appt. |
| Bin Yao | byao4@ucsc.edu | Mon 4:00 pm-5:00 pm PSB145 & by appt. |

| CHEM 1N | Day | Time | Room | WA Class Key | TA |
|---------|-----|------------------|---------------|----------------|------------------|
| 01A | T | 12:00 P - 3:00 P | Nat Sci 2 273 | ucsc 7335 0777 | Staci Adams |
| 01B | T | 3:30 P - 6:30 P | Nat Sci 2 273 | ucsc 0154 6607 | Anna Johnston |
| 01C | T | 7:00 P - 10:00 P | Nat Sci 2 273 | ucsc 2510 1015 | Kaitlyn Vian |
| 01D | W | 8:30 A - 11:30 A | Nat Sci 2 273 | ucsc 0012 8314 | --- |
| 01E | W | 1:30 P - 4:30 P | Nat Sci 2 273 | ucsc 4730 7465 | Danai Moschidi |
| 01F | W | 5:00 P - 8:00 P | Nat Sci 2 273 | ucsc 8544 3326 | Kaitlyn Vian |
| 01G | Th | 12:00 P - 3:00 P | Nat Sci 2 273 | ucsc 8208 1013 | Staci Adams |
| 01H | Th | 3:30 P - 6:30 P | Nat Sci 2 273 | ucsc 1367 3588 | Stephanie Holmes |
| 01I | Th | 7:00 P - 10:00 P | Nat Sci 2 273 | ucsc 2668 0533 | Anna Johnston |
| 01J | T | 12:00 P - 3:00 P | Nat Sci 2 283 | ucsc 3009 9722 | Bin Yao |
| 01K | T | 3:30 P - 6:30 P | Nat Sci 2 283 | ucsc 7905 2900 | Bin Yao |
| 01L | T | 7:00 P - 10:00 P | Nat Sci 2 283 | ucsc 2834 8088 | Danai Moschidi |
| 01M | W | 8:30 A - 11:30 A | Nat Sci 2 283 | ucsc 2261 8107 | --- |
| 01N | W | 1:30 P - 4:30 P | Nat Sci 2 283 | ucsc 6115 2878 | Stephanie Holmes |