CHEM 211 Spring 218 Laboratory+

*Laboratory Requirements*-9 completed labs are required for a grade for the course, 10 labs will be scheduled. Lab # 10 can be doubled to replace a missed lab (form must be filled out and submitted to your TA). Prelab write-ups are due at the beginning of the lab session and the lab must be turned at the beginning of the next lab session. Quizzes will be given in the recitation sections. A passing grade in the laboratory is required to pass the course.

*Laboratory Makeups* **-**The only good reason for missing a lab is your own illness. If you are sick you must notify your T.A. that day. One lab can be made up by doubling the last lab as described above.

*Laboratory Checkout***-**You must checkout and pay for any breakage or you will be assessed $100 and given an incomplete until the bill is paid. All unpaid bills are entered on banner at the end of the semester.

Laboratory Assignments

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| Lab | Week of | description | points |
|  |  | safety lecture 1/17 or 1/18 |  |
|  | 1/22 | check in |  |
| 1 | 1/29 | Density lab | 10 |
| 2 | 2/5 | Emission Spectra and the Electronic Structure of Atoms | 10 |
| 3 | 2/12 | The Estimation of Avogadro’s number | 10 |
| 4 | 2/19 | Observing the Reactions of Household Chemicals: / pH/Lead testing | 10 |
| 5 | 2/26 | Determination of a Chemical Formula: I with Zn | 10 |
| 6 | 3/5 | The Chemistry of Oxygen | 10 |
| 7 | 3/12 | An introduction to titrations | 10 |
| 8 | 3/26 | Determination of a Chemical Formula by Titration: Ca with H2O | 10 |
| 9 | 4/2 | A Cycle of Copper Reactions | 10 |
| 10 | 4/9 | Calorimetry lab | 10 |
|  | 4/16 | lab checkout |  |