

Chemistry 113 Lab Policies

1. You must be registered for a lab to accompany a CHEM 113 lecture.
2. Attendance in lab is mandatory. You must pass lab to pass CHEM 113 lecture. Three unexcused absences will result in failure in both this lab and the class.
3. Absences: Labs will only be excused for documented excuses such as University sponsored functions, court appearances, illnesses, or death in the family. The appropriate agency will gladly provide you with an excuse. Without documentation an absence is unexcused and will receive a grade of zero. (i.e.: Claiming to have been sick but not going to a doctor or the infirmary and getting a note will be an unexcused absence and you will receive a zero for that lab.) Medical appointments should be scheduled in time slots other than scheduled classes.
4. Students are expected to adhere to the Universities Code of Ethics.
5. THERE WILL BE NO MAKE-UP LABS You must attend the **lab section to which you are assigned.**
6. At the discretion of your lab instructor (Dr. Bryan) students violating safety regulations may be dismissed from a specific lab and receive a zero for that experiment or may be dismissed for the remainder of the semester and receive zeros for any remaining labs. In the latter case if more than three labs remain in the semester a failing grade for the lab will be earned resulting in failure for CHEM 113 lecture.
7. Punctuality/Preparedness:
 - a. Students that arrive late will not be allowed to take a quiz, resulting in a loss of 10 points for punctuality.
 - b. Students arriving after the lab instructor has completed the prelab briefing will be considered absent and will not be allowed to perform the experiment. They will receive a grade of "0" for the lab period.
 - c. Students who are on time, but improperly clothed (sandals, shorts, no goggles, etc.) will be allowed to take a quiz and attend the lab briefing. They will then be given 15 minutes to find appropriate attire/goggles; if this is not possible, they will receive a grade of "0" for the lab period.

Chem 113 Grading

The overall lab grade will count as 25 % of the lecture grade in Chemistry 113. The lab reports will be averaged and will represent 80% of your lab grade. There will be a lab final that will be weighted at 20% of your lab grade. The lab final can replace a lower lab grade. Each lab report will be worth 100 points. Each report will be graded based upon the following:

Attendance and punctuality: Quiz ¹	10 Points
TA Discretionary	10 Points
Neatness of lab report	10 Points
Calculations page (most labs)	10 Points
Graphs (if any)*	30 Points
Key Terms (Lab Prep)	0 Points (but fair game for Lab Final)
PreLab Questions ²	3 Points Each
PostLab Questions ²	3 Points Each
Lab report quality	Remaining points

* All graphs must be computer generated to be graded.

¹Missed quizzes are not allowed to be made up.

²If you do calculations, you must show your work. Prelab and postlabs have enough room to show work below the problem, for calculations done to fill in the data tables, work must be shown on a separate calculations page.

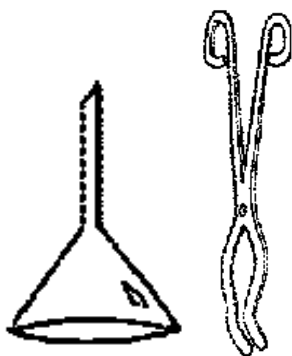
Safety Regulations for Chem 113 Lab

1. Always wear eye protection in chemical work, handling, and storage areas. Eye protection must meet the requirements of the American National Standard Practice for Occupational and Educational Eye and Face Protection, ANSIZ87.1-1989 are recommended. Regular glasses without sideshields are not to be considered suitable protection. Contact Lenses are not permitted in Chemical Laboratories!
2. For severe exposure conditions, in addition to Chemical Splash Goggles wear a face shield large enough to protect the ears and neck as well as the face.
3. Have information readily available on the hazards and physical and chemical properties of the materials used (e.g., corrosivity, flammability, reactivity, and toxicity). This information is contained in MSDS sheets.
4. Always wear clothing consistent with safety; chemically resistant lab coats or aprons are recommended. Do not wear shorts, cutoffs, or miniskirts. Do not wear high-heeled shoes, open-toed shoes, sandals, or shoes made of woven material. Do not wear tank-tops or midriff shirts. Confine long hair and loose clothing.
5. Always wash hands and arms with soap and water before leaving the work area. This applies even if one has been wearing gloves. (If wearing gloves, wash gloves before removing. Then, wash again.)
6. Never perform any work when alone in the chemical laboratory. At least two people must be present. Undergraduate students must be supervised by a lab instructor or trained lab assistant at all times.*
7. Never eat, drink, chew gum or tobacco, smoke, or apply cosmetics in areas where chemicals are used or stored.
8. Never perform unauthorized work, preparations, or experiments.
9. Never engage in horseplay, pranks, or other acts of mischief in chemical work areas.
10. Never remove chemicals from the facility without proper authorization.
11. All injuries, accidents, and “near misses” must be reported to the Lab Instructor.
12. Visitors in a lab are required to abide by all safety guidelines and dress codes.

Drawer Equipment For General Chemistry



Clay Triangle



Funnel

Tongs



Dropper



Test Tube Holder



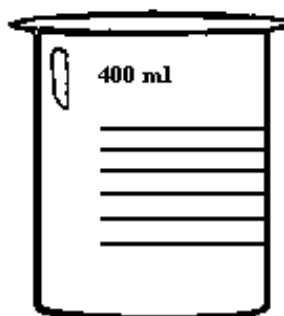
2-50-mL Beakers



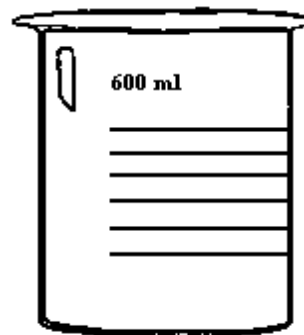
2-100mL Beakers



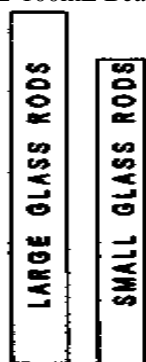
2- 250-mL Beakers



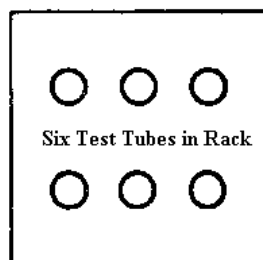
2-400-mL Beakers



600 mL Beaker(or larger)



Glass Rods



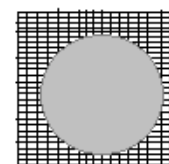
Test Tubes in Rack



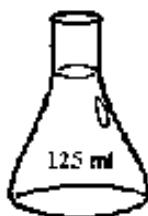
Spatula



Scoupula



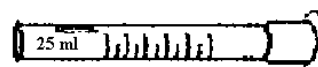
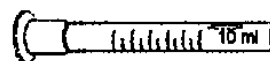
Wire Gauze



125 ml Erlenmeyer Flask



3-250 mL Erlenmeyer Flasks

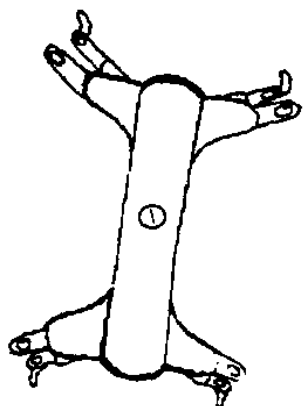


Graduated Cylinders

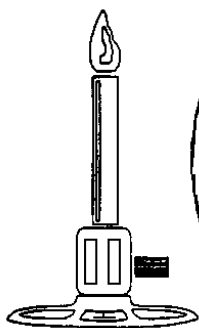
{10,

3 any combo-(25, 50 or 100) mL}

Cabinet Equipment For General Chemistry



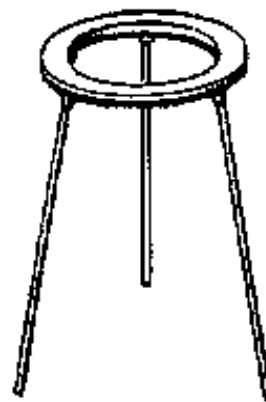
Burette Holder



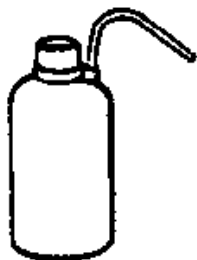
Bunsen Burner



w/ Tubing



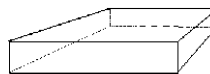
Tripod



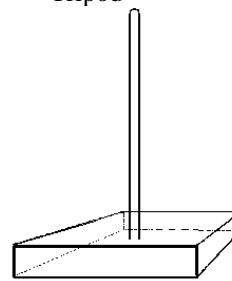
Wash Bottle



2-Test Tube Brushes



2-Wooden Blocks



Ring Stand



Iron Ring

Periodic Table

1A																	8A
1 H 1.008																2 He 4.003	
2A												3A	4A	5A	6A	7A	
3 Li 6.941	4 Be 9.012											5 B 10.81	6 C 12.01	7 N 14.01	8 O 16.00	9 F 19.00	10 Ne 20.18
11 Na 22.99	12 Mg 24.31											13 Al 26.98	14 Si 28.09	15 P 30.97	16 S 32.06	17 Cl 35.45	18 Ar 39.95
19 K 39.10	20 Ca 40.08	21 Sc 44.96	22 Ti 47.88	23 V 50.94	24 Cr 52.00	25 Mn 54.94	26 Fe 55.85	27 Co 58.93	28 Ni 58.69	29 Cu 63.55	30 Zn 65.38	31 Ga 69.72	32 Ge 72.59	33 As 74.92	34 Se 78.96	35 Br 79.90	36 Kr 83.80
37 Rb 85.47	38 Sr 87.62	39 Y 88.91	40 Zr 91.22	41 Nb 92.91	42 Mo 95.94	43 Tc (98)	44 Ru 101.1	45 Rh 102.9	46 Pd 106.4	47 Ag 107.9	48 Cd 112.4	49 In 114.8	50 Sn 118.7	51 Sb 121.8	52 Te 127.6	53 I 126.9	54 Xe 131.3
55 Cs 132.9	56 Ba 137.3	57 La* 138.9	72 Hf 178.5	73 Ta 180.9	74 W 183.9	75 Re 186.2	76 Os 190.2	77 Ir 192.2	78 Pt 195.1	79 Au 197.0	80 Hg 200.6	81 Tl 204.4	82 Pb 207.2	83 Bi 209.0	84 Po (209)	85 At (210)	86 Rn (222)
87 Fr (223)	88 Ra 226	89 Ac† (227)	104 Unq	105 Unp	106 Unh	107 Uns	108 Uno	109 Une									

58 Ce 140.1	59 Pr 140.9	60 Nd 144.2	61 Pm (145)	62 Sm 150.4	63 Eu 152.0	64 Gd 157.3	65 Tb 158.9	66 Dy 162.5	67 Ho 164.9	68 Er 167.3	69 Tm 168.9	70 Yb 173.0	71 Lu 175.0
90 Th 232.0	91 Pa (231)	92 U 238.0	93 Np (237)	94 Pu (244)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (252)	100 Fm (257)	101 Md (258)	102 No (259)	103 Lr (260)