

University of Texas at Dallas

Organization of Chemistry 1112

Spring 2007

Dr. Sandhya Gavva

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Office Hour: T 10-11 AM

There will be nine wet lab, two dry lab experiments during the semester. . There will be no makeup wet labs, no makeup dry labs; and you are not allowed to perform your experiments in another Lab section. Your final grade for the lab will be determined after dropping the lowest wet lab score.

Saturday Section 110

Greg McGovern

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<u>Day/Time</u>	<u>Section</u>		<u>Teaching Assistant</u>	<u>Office</u>	<u>E-mail</u>
M	11:30-2:30	101	Georgia Serfling	BE3.502	glt012100@utdallas.edu
M	2:30-5:30	102	Marilou Cruz	BE3.502	med061000@utdallas.edu
T	8:30--11:30	103	Georgia Serfling	BE3.502	glt012100@utdallas.edu
T	11:30-2:30	104	Georgia Serfling	BE3.502	glt012100@utdallas.edu
T	2:30-5:30	105	Chalita Ratanatawanate	BE3.502	cxr056000@utdallas.edu
W	11:30-2:30	106	Chalita Ratanatawanate	BE3.502	cxr056000@utdallas.edu
W	2:30-5:30	107	Ana Christina Opina	BE3.502	aco052000@utdallas.edu
F	11:30-2:30	109	Ana Christina Opina	BE3.502	aco052000@utdallas.edu
F	2:30-5:30	108	Marilou Cruz	BE3.502	med061000@utdallas.edu
S	8:30--11:30	110	Chalita Ratanatawanate	BE3.502	cxr056000@utdallas.edu

Recitation:

You must enroll in the recitation section in order to receive lab grade. Recitation lectures are designed to prepare students for the upcoming experiments, therefore given a week ahead of actual lab sessions.

There will be a final exam on the material covered during recitation and lab towards the end of the semester . The final exam will count 20% of your lab grade. Your attendance, conduct and participation during recitation and lab will have an impact on your grade.

Lab Manual: University of Texas at Dallas: Chemistry Lab Manual 2004-2005

Materials: Safety goggles/glasses, composition note book, Calculator

Safety Policy: No individual will be allowed in the lab without safety glasses. No individual will be allowed in the lab wearing short pants or skirt, or open-toed shoes. Do not sit on the benches. Chemical residues might contaminate your clothing. Do not eat or drink in the laboratory. If you must take a break, wash your hands thoroughly before leaving. No individual will be allowed in the lab with contact lenses. Please refer to the *Undergraduate Laboratory Policies**. Given proper warning, students who do not comply with the safety rules will be asked to leave without receiving a grade for the experiment.

***<http://www.utdallas.edu/nsm/chemistry/resources/safety.html>**

Lab Grading:

Final Exam	20 %
Lab Preview	10 %
Lab Report	70 %
• Data Sheet	
• Calculations	
Cleanup*	?

Lab Preview: The lab experience is much more enjoyable when you have the basic, initial understanding of the experiment. Preview questions are designed to help you understand the concepts and techniques involved in each experiment. Previews will not be collected. However, you must show the preview, to the instructor at the beginning of the lab period to receive the grade. The lab preview questions will help you better prepare for the quizzes and the exams. LATE previews will not be accepted and you will be given a ZERO

Lab Readiness: You are responsible for all of the required material and equipment for each experiment. You must dress appropriately and have all of the required materials (ie. Goggles, close-toed shoes, lab manual, pen...etc.).

Lab write ups:

There is no formal report(s) required for this course. However, you will turn in the data sheets with all the required information for each experiment. Where appropriate, it is essential that you include calculations, detailed observations, balanced equations, percentage error, a brief conclusion* of the experiment, etc. Write ups are due on the next lab period (i.e., one week after the previous lab was completed). For example, if an expt. is performed between 11:30 AM on Monday,

January 22, 2007, the lab report for that exp. will be due at the beginning of the next lab period at 11:30 AM on Monday, January 29, 2007. LATE write ups will be accepted but 10% of the maximum points allowed will be subtracted from a late write up EACH DAY it is late.

Data:

Any data you collected during the experiment must be written in pen. In case of wrong entries, make a new table and explain what happened. Calculations can be written in pencil. Do not scratch off any original data. Use scientific notations to improve accuracy. 0.000789 does not equal to 0.0008, its 7.89×10^{-4} . Calculating this way might improve % error. Keep all the data and calculations neat. If we can't read them, obviously we cannot grade them. Before you leave the lab, TA must review and sign the data sheet.

Calculations:

If you made an error in the calculation, points will be taken off for that part; however, we will go through your calculation and use the wrong data to see if rest of the calculations are correct. Points will be deducted if you identify the wrong unknown or if you have high percentage errors. All materials in this lab come from the lab manual. Although some concepts might not be covered in the lecture, you should still be able to perform if you have read the manual carefully. Seek help if you have trouble.

Cleanup*:

Leave sufficient time at the end of laboratory period for cleaning up. Make sure you thoroughly clean all the equipment, glassware and also clean up your bench. If you do not comply with cleanup and other general rules pertaining to the lab, your grade for that lab will be lowered by 10%.

Stock Room:

Chemistry Stock Room: BE 2.412 (DOWN STAIRS) You will need to replace broken items from the Chemistry stockroom, BE 2.412. You need to fill out a breakage form with appropriate information. The items are charged to you as breakage at the end of the semester.

THIS WILL BE STRICTLY ENFORCED. YOU ARE ALSO REQUIRED TO PAY TO BURSARS OFFICE FOR ANY ITEMS IN YOUR LAB DRAWER THAT BECOME BROKEN OR LOST DURING THE SEMESTER

FAILURE TO PAY FOR BROKEN OR LOST DRAWER ITEMS WILL RESULT IN WITHHOLDING OF YOUR LAB GRADE

CHM 1112

Lab Schedule

Spring 2007

Week of		Exp. #	Experiment	Report Due
Jan 15	Safety		Recitation Begins/Check in /Safety	Jan 22
Jan 22	Dry Lab	12	Chemical Literature	Jan 29
Jan 29	Wet Lab	13	Synthesis of Alum	Feb 5
Feb 5	Wet Lab	14	Vapor Pressure	Feb 12
Feb 12	Wet Lab	15	Molar Mass Determination	Feb 19
Feb 19	Dry Lab	*****	Hand Out	Feb 26
Feb 26	Wet Lab	16	Rate Law Determination	Mar 12
Mar 12	Wet Lab	17	Hard Water Analysis	Mar 19
Mar 19	Wet Lab	18	Equilibrium Constant	Mar 26
Mar 26	Wet Lab	20	Antacid Analysis	Apr 2
Apr 2	Wet Lab	19	Molar Solubility Constant	Apr 9
Apr 9	Dry Lab	****	Hand Out	Apr 9
Apr 16	Wet Lab	22	Electrolysis/Checkout	Apr 20

Everyone will check out of the lab week of Apr 16 Failure to check out the lab will result in withholding of the lab grade. Jan 15 is a holiday. Monday sections will check in and perform exp. # 12, Chemical Literature on Jan 22.