

**University of Texas at Dallas  
Organization of Chemistry 1112  
Spring 2007**

**Dr. Sandhya Gavva**

**Office: BE 3.330 883-2279**

**Email: sgavva@utdallas.edu**

**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**

**Email: gmcgover@utdallas.edu**

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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

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***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:**

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

**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  $7.89 \times 10^{-4}$ . 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

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

**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.**