


CHEM 1111 General Chemistry I Laboratory		
	Professors	Sections
	Sandhya Gavva, Ph.D	103, 105, 111, 114, 115, 119, 601, 603
	Warren Goux, Ph.D	106, 107, 113, 117, 120, 122, 605
	Steven Nielsen, Ph.D	110, 112, 604
	Yanping Qin, Ph.D	101, 108, 116, 118, 121, 606
	Amandeep K. Sra, PhD	123, 124, 125, 126, 127
	Claudia Taenzler, Ph.D	104, 602
	Jie Zheng, Ph.D	102, 109
Term	Fall 2011	
Meetings	Workshops: SLC(MSET) 2.202 & 2.203 Labs: SLC(MSET) 3.202 & 3.210	

Professors' Contact Information

	Phones	Office	Email Addresses	Office Hours
Dr. Gavva	972-883-2279	SLC 3.501	sgavva@utdallas.edu	TBA
Dr. Goux	972-883-2660	BE 3.510	wgoux@utdallas.edu	W 11.00 AM
Dr. Nielsen	972-883-5323	BE 2.516	son051000@utdallas.edu	W 12.00 PM
Dr. Qin	972-883-6027	BE 3.516	yxq083000@utdallas.edu	T 3.00 PM
Dr. Sra	972-883-6027	BE 3.516	aks057000@utdallas.edu	T 10.00 AM
Dr. Taenzler	972-883-4686	SLC 3.505	xct080100@utdallas.edu	R 10.00 AM
Dr. Zheng	972-883-5768	RL 2.412	jxz087000@utdallas.edu	T 1.00 PM

General Course Information

Pre-requisites, Co-requisites, & other restrictions	One year of High School Chemistry. No Audits allowed.
Course Description	These courses reinforce the concepts of Freshman Chemistry in the lab via experiments. Students are offered the opportunity to acquire basic laboratory skills and an appreciation for the presence of chemistry in daily living. The experiments are designed to demonstrate concepts including properties of inorganic substances, principles of structure and bonding, and elementary quantitative analysis.
Expected Learning Outcomes	<i>Students should be able to:</i> <ol style="list-style-type: none"> 1. Be able to explain the importance of Lab Safety 2. Be able to collect and organize data in written laboratory reports 3. Know how to measure mass and volume of chemicals 4. Know how to separate a mixture 5. Learn the technique of titration
Required Texts & Materials	Laboratory Manual for General Chemistry laboratory I (CHEM 1111) ISBN: 9781121288386 <ul style="list-style-type: none"> • Z-87 rated Safety Glasses or Goggles • A Composition Notebook and a Calculator

Supplemental Texts, Readings, & Materials	<ul style="list-style-type: none"> • Students are financially responsible for items checked out of the stockroom • Other course materials may be recommended or required • Tutors: See the Chem. Dept. AA (BE 2.312) for an updated list of tutors • Interactive DVD-ROMs covering general chemistry are available via the CSA
Class Attendance	<p><i>It is typical for the enrollments of all CHEM 1111 sections to be at a maximum (set by the Fire Marshall's regulations for the SLC laboratories). If you are enrolled in one Section, you can <u>not</u> attend another Section.</i></p> <p><i>It is typical for the laboratory activities to utilize the entire 180 minutes of class time such that one can <u>not</u> simultaneously enroll in other classes whose meeting days and times conflict with those of CHEM 1112.</i></p>
Make-Up Labs	There are no make-up lab dates for any experiments!
Penalty Points	<p>Points can be deducted from your final grade to each experiment for any of the following reasons:</p> <ul style="list-style-type: none"> • Lack of participation in the workshop and/or the laboratory (absent* or inattentive) 5 – 50 points • Late lab report 10 points per day late • Safety violations (see posted notes for details) 5 – 50 points • Illegible handwriting or computer generated work (unless otherwise arranged) 5 – 10 points • Calculations that are not complete or cannot be followed 5 – 15 points • Misuse of laboratory time (e.g. using cell phone) 5 – 10 points • Failure to clean up equipment, glassware, working area, community equipment (e.g. balance) 5 – 10 points <p><small>* After a 15 minute grace period, students will not be allowed to attend the workshop and/or the lab.</small></p>

Teaching Assistants and Lab Sections

Day/Time	Section		Teaching Assistant	E-mail
M 1.00 PM	101	Dr. Q	Melissa Love	mxl111230@utdallas.edu
	102	Dr. Z	Imalka Munaweera	msm110020@utdallas.edu
M 4.00 PM	103	Dr. G	Melissa Love	mxl111230@utdallas.edu
	104	Dr. T	Imlaka Munaweera	msm110020@utdallas.edu
M 7.00 PM	602	Dr. T	Elizabeth Braun	ein100020@utdallas.edu
T 7.00 AM	126	Dr. S	Shirangi Fernando	wkf090020@utdallas.edu
T 10.00 AM	105	Dr. G	Shirangi Fernando	wkf090020@utdallas.edu
	106	Dr. Go	Sajani Basnayake	sab096120@utdallas.edu
T 1.00 PM	102	Dr. G	David Bushdiecker	dkb053000@utdallas.edu
	107	Dr. Go	Elizabeth Braun	ein100020@utdallas.edu
T 4.00 PM	103	Dr. G	David Bushdiecker	dkb053000@utdallas.edu
	108	Dr. Q	Sajani Basnayake	sab096120@utdallas.edu
W 1.00 PM	109	Dr. Z	Rodrigo Vinluan	rdv081000@utdallas.edu
	110	Dr. N	Elizabeth Braun	ein100020@utdallas.edu
W 4.00 PM	111	Dr. G	Suchithra Senevirathne	sxs110030@utdallas.edu
	112	Dr. N	Rodrigo Vinluan	rdv081000@utdallas.edu
W 7.00 PM	603	Dr. G	Suchitra Senevirathne	sxs110030@utdallas.edu
	604	Dr. N	Imalka Munaweera	msm110020@utdallas.edu
R 7.00 AM	127	Dr. S	Shirangi Fernando	wkf090020@utdallas.edu
R 10.00 AM	113	Dr. Go	David Bushdiecker	dkb053000@utdallas.edu
	114	Dr. G	Sajani Basnayake	sab096120@utdallas.edu
R 1.00 PM	115	Dr. G	Xiaojing Wang	xxw096220@utdallas.edu
	116	Dr. Q	Sasha Sun	sxs116020@utdallas.edu
R 4.00 PM	117	Dr. Go	David Bushdiecker	dkb053000@utdallas.edu
	118	Dr. Q	Sajani Basnayake	sab096120@utdallas.edu
R 7.00 PM	605	Dr. Go	Xiaofeng Song	sxx110030@utdallas.edu

R	7.00 PM	606	Dr. Q	Sasha Sun	sxs116020@utdallas.edu
F	1.00 PM	119	Dr. G	Melissa Love	mxl111230@utdallas.edu
		120	Dr. Go	Xiaofeng Song	sxx110030@utdallas.edu
F	4.00 PM	121	Dr. Q	Sasha Sun	sxs116020@utdallas.edu
		122	Dr. Go	Xiaojing Wang	xxw096220@utdallas.edu
S	9.00 AM	123	Dr. S	Xiaofeng Song	sxx110030@utdallas.edu
S	12.00 PM	124	Dr. S	Suchitra Senevirathne	sxs110030@utdallas.edu
S	3.00 PM	125	Dr. S	Rodrigo Vinluan	rdv081000@utdallas.edu

Abbreviations:

Dr. G	Dr. Gavva
<i>Dr. Go</i>	Dr. Goux
Dr. N	Dr. Nielsen
Dr. Q	Dr. Qin
Dr. S	Dr. Sra
Dr. T	Dr. Taenzler
Dr. Z	Dr. Zheng

The easiest way to contact an instructor and/or TA is via e-mail. Every instructor and TA will check their e-mail frequently and they try to respond as fast as possible. Please always include both – your TA and your instructor – in your e-mail.

Assignments & Academic Calendar

There will be eleven lab experiments during the semester. There will be no makeup 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.

This schedule and timeline are subject to change at the discretion of the lab coordinator.

Week of:	Exp. #	Experiment	Report Due Week of
August 29, 2011		Syllabus/Check-in/ /Lab Safety Basic Laboratory Operations	
Monday 09/05/2011		Labor Day	
09/06 – 09/12/2011	1	Copper Cycle	09/13
09/13 – 09/19/2011	2	Atomic Structure	09/20
09/20 – 09/26/2011	3	Properties of Light	09/27
09/27 – 10/03/2011	4	Periodic Trends	10/04
10/04 – 10/10/2011	5	Qualitative Analysis	10/11
10/11 – 10/17/2011	6	Molecular Geometry Part	10/18
10/18 – 10/24/2011	7	Percent Composition	10/25
10/25 – 10/31/2011	8	Limiting Reagent	11/01
11/01 – 11/07/2011	9	Titration	11/08
11/08 – 11/14/2011	10	Calorimetry	11/15
11/15 – 11/21/2011	11	Airbag Lab	11/28
11/22 – 11/25/2011		Thanksgiving Break	
11/28 – 12/02/2011		Check - out	

Everyone must checkout during the week of November 28th, 2011. Failure to checkout will result in withholding of grade.

Course Policies

Safety	<p>IMPORTANT: In accordance with University and Chemistry Department safety rules, any time anyone (student, TA, instructor, or visitor) is in a lab, Z87-rated safety eyewear must be worn. The first violation in the semester will result in a warning and removal from the lab until the safety eyewear is in-place. The second violation in the semester will result in dismissal from that lab period with no extra time being allowed for make-up of the work scheduled for that lab period. Similar penalties will apply if any other safety rules are violated. Please see “penalty points for details. In summary, all students are responsible for all information inside the undergraduate safety manual; it is located at:</p> <p style="text-align: center;">www.utdallas.edu/nsm/chemistry/resources/safety.html</p>
Lab Readiness	Each student will be evaluated with respect to their: adherence to good safety practices, advanced knowledge of the day’s experiment and the equipment involved, laboratory technical skills, and laboratory etiquette/professionalism. If you do not attend lab, you can not earn Lab Readiness Points.
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 be checked for completion but not collected
Notebook	<p>Students will work in a group of three. Each week students are expected to prepare for the lab by doing:</p> <ol style="list-style-type: none"> 1. Read the experiment 2. Answer preview questions (if assigned) 3. Be sure to include the following in your notebook <ol style="list-style-type: none"> a. Purpose of the lab b. Chemistry with equations. c. Step wise procedure in your own words. <p><i>Notebooks will be checked and graded but not collected.</i></p>
Lab Write-Ups	There are no formal lab reports 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 at the <u>beginning</u> of the next lab period (i.e., one week after the previous lab was completed). For example, if an experiment is performed between 8:30 - 11:30 AM on Tuesday, September 06, 2011, the write-up for that exp. will be due at 8:30 AM on Tuesday, September 13, 2011. 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. Your final lab write-up grade will be determined after dropping the lowest lab write-up score.
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. Do not erase any original data. Use scientific notations to improve accuracy. 0.000789 does not equal to 0.0008, it’s 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, s TA must review and sign your data sheet.
Clean-Up	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. Please see “penalty points” for detail.

Chemistry Stockroom SLC 3.221	<p><u>BROKEN ITEMS WILL NEED TO BE REPLACED BY VISITING THE CHEMISTRY STOCKROOM (SLC3.221) AND FILLING OUT A BREAKAGE FORM WITH THE APPROPRIATE INFORMATION. BROKEN CHARGES ARE SUMMED AND ENTERED INTO YOUR ACCOUNT AT THE END OF THE SEMESTER.</u></p> <p><u>YOU ARE ALSO REQUIRED TO GO TO THE BURSARS OFFICE AND PAY FOR ANY ITEMS IN YOUR LAB DRAWER THAT BECOME BROKEN OR LOST DURING THE SEMESTER. THIS WILL BE STRICTLY ENFORCED.</u></p> <p><u>FAILURE TO RECONCILE YOUR ACCOUNT WITH THE BURSAR WILL RESULT IN WITHHOLDING OF YOUR CHEM 1111 GRADE</u></p>																																											
Lab Drawers	Failure to check-out of your laboratory drawer before Finals Week will result in withholding of your CHEM 1111 Grade.																																											
Special Assignments	None																																											
Extra Credit	None																																											
Grading (credit) Criteria	<p>Summary of Points:</p> <table><tr><td></td><td></td><td><u>Pts.</u></td></tr><tr><td></td><td>Notebook/workshop</td><td>20</td></tr><tr><td></td><td>Lab Readiness</td><td>10</td></tr><tr><td></td><td>Lab Write Ups</td><td>70</td></tr><tr><td></td><td>Total</td><td>100</td></tr></table> <p>For details please see grade breakdown for each experiment.</p> <p>Your final letter grade for the course will be determined using a scale such as the one below where the class average is set at the “B-/C+” border (e.g., 79.5 points):</p> <table><tr><td>A+</td><td>97 & above</td><td>C</td><td>73-76</td></tr><tr><td>A</td><td>93-96</td><td>C-</td><td>70-72</td></tr><tr><td>A-</td><td>90-92</td><td>D+</td><td>67-69</td></tr><tr><td>B+</td><td>87-89</td><td>D</td><td>63-66</td></tr><tr><td>B</td><td>83-86</td><td>D-</td><td>60-62</td></tr><tr><td>B-</td><td>80-82</td><td>F</td><td>59 & below</td></tr><tr><td>C+</td><td>77-79</td><td></td><td></td></tr></table> <p><i>Note: Each Section is a unique course; sections are not graded together.</i></p>			<u>Pts.</u>		Notebook/workshop	20		Lab Readiness	10		Lab Write Ups	70		Total	100	A+	97 & above	C	73-76	A	93-96	C-	70-72	A-	90-92	D+	67-69	B+	87-89	D	63-66	B	83-86	D-	60-62	B-	80-82	F	59 & below	C+	77-79		
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B-	80-82	F	59 & below																																									
C+	77-79																																											
Field Trip Policies Off-Campus Instruction & Course Activities	<p><i>Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at the website address http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional information is available from the office of the school dean. Below is a description of any travel and/or risk-related activity associated with this course.</i></p> <p>None</p>																																											
Technical Support	If you experience any problems with your UTD account you may send an email to: assist@utdallas.edu or call the UTD Computer Helpdesk at 972-883-2911.																																											

Student Conduct and Discipline	<p>The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD printed publication, <i>A to Z Guide</i>, which is provided to all registered students each academic year.</p> <p>The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the <i>Rules and Regulations, Series 50000, Board of Regents, The University of Texas System</i>, and in Title V, Rules on Student Services and Activities of the university's <i>Handbook of Operating Procedures</i>. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391) and online at</p> <p>http://www.utdallas.edu/judicialaffairs/UTDJudicialAffairs-HOPV.html</p> <p>A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.</p>
Academic Integrity	<p>The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.</p> <p>Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.</p> <p>Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.</p>
Copyright Notice	<p>The copyright law of the United States (Title 17, United States Code) governs the making of photocopies or other reproductions of copyrighted materials, including music and software. Copying, displaying, reproducing, or distributing copyrighted works may infringe the copyright owner's rights and such infringement is subject to appropriate disciplinary action as well as criminal penalties provided by federal law. Usage of such material is only appropriate when that usage constitutes "fair use" under the Copyright Act. As a UT Dallas student, you are required to follow the institution's copyright policy (Policy Memorandum 84-I.3-46). For more information about the fair use exemption, see</p> <p>http://www.utsystem.edu/ogc/intellectualproperty/copypol2.htm</p>
Email Use	<p>The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email</p>

	<p>correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.</p>
Withdrawal from Class	<p>The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, the instructor(s) cannot drop or withdraw any student. The student must do the proper paperwork to ensure that he/she will not receive a final grade of "F" in a course if he/she chooses not to attend the class once he/she is enrolled.</p> <p>Undergraduates last day to withdraw with WP/WF = Tuesday, November 01, 2011.</p>
Student Grievance Procedures	<p>Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's <i>Handbook of Operating Procedures</i>.</p> <p>In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.</p> <p>Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.</p>
Incomplete Grades	<p>As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of <u>F</u>.</p>

<p>Disability Services</p>	<p>The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m. and Friday, 8:30 a.m. to 5:00 p.m.</p> <p>The contact information for the Office of Disability Services is: The University of Texas at Dallas, SU 22 PO Box 830688 Richardson, Texas 75083-0688 (972) 883-2098 (voice or TTY) disabilityservice@utdallas.edu</p> <p>If you anticipate issues related to the format or requirements of this course, please meet with the Coordinator of Disability Services. The Coordinator is available to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you be registered with Disability Services to notify them of your eligibility for reasonable accommodations. Disability Services can then plan how best to coordinate your accommodations.</p> <p>It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after the first class meeting or as soon as possible.</p>
<p>Religious Holy Days</p>	<p>The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.</p> <p>The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.</p> <p>If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.</p>

These descriptions and timelines are subject to change at the discretion of the Professor.