CHEM 1111 General Chemistry I Laboratory				
	Professors	Sections		
	Sandhya Gavva, Ph.D	101, 104, 107, 118, 121, 124, 130,		
	Sulfanya Gavva, 1 n.2	137, 139		
	Yu Huang	102, 108, 111, 119, 122, 128, 134,		
	i u mang	136, 138, 141		
[UT]D	Shailseh Shah, Ph.D	110, 116, 123, 142, 143		
	Amandeep Sra, Ph.D	105, 127		
	Yanping Qin, Ph.D	109, 114, 115, 117, 125, 132, 133,		
		135		
	Vatia Wallson Dh D	103, 106, 112, 113, 120, 126, 129,		
	Katie Walker, Ph.D	131, 140		
Term	Fall 2016			
Meetings	Workshops: SLC 1.204, 2.202, 2.203, 2.303, 3.102 and CB 1.104			
	Labs: SLC 3.202, 3.210 & 3.220			

Professors' Contact Information

	Phone	Office	Email Address	Office Hours
Dr. Gavva	972-883-2279	SLC 3.501	sgavva@utdallas.edu	W 3:30-4:30 pm
				F 10-11 am
Mr. Huang	972-883-4817	BE 3.330B	yxh091220@utdallas.edu	W 1-3 pm
Dr. Shah	972-883-4817	BE 3.330B	XXXXX@utdallas.edu	W12.30-1.30pm
Dr. Sra	972-883-4818	SLC 3.513	amandeep.sra@utdallas.edu	M/W/F
				1-2 pm
Dr. Qin	972-883-6299	SLC 3.403	yxq083000@utdallas.edu	T 9-10 am
Du Wallson	972-883-4817	BE 3.330B	erink.walker@utdallas.edu	M 3-4 pm
Dr. Walker				R 10-11 am

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	Students should be able to: 1. Explain the importance of Lab Safety 2. Collect and organize data in written laboratory reports 3. Measure mass and volume of chemicals 4. Perform stoichiometric reactions 5. Learn the technique of titration		

Required Texts & Materials	An Atoms First Approach to the General Chemistry Laboratory, 2 nd edition ISBN: 9780077646424 (Two-semester) 9781308162027 (One Semester) • Z-87 rated Safety Glasses or Goggles • Only three types of calculators are allowed during labs and workshops. TI – 30 Xa, TI-30 XIIS and TI-30 XIIB • Access to eLearning is needed to complete your safety and Pre-lab quizzes
Supplemental Texts, Readings, & Materials	 Students are financially responsible for items checked out such as glassware and instruments Other course materials may be recommended or required Tutors: See the Chem. Dept. Office (BE 2.312) for an updated list of tutors (your instructor can guide you) Interactive DVD-ROMs covering general chemistry are available via the CSA
Class Attendance	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 <u>cannot</u> attend another Section. It is typical for the laboratory activities to utilize the entire 180 minutes of class time such that one <u>cannot</u> simultaneously enroll in other classes whose meeting days and times conflict with those of CHEM 1111. No cell phones or computers are allowed in the chemistry laboratories. If you need to make an emergency phone call, please step outside.
Make-Up Labs	There are no make-up lab dates for any experiments! There are no scheduled make-up periods in the Gen Chem Labs. Make-ups are done during other lab sections on a space-available basis. If you miss your regularly scheduled laboratory session, and have a valid university excuse, you can make arrangements through your Instructor to make-up the lab later in the same week (Tuesday to Monday). This will be your only chance to make-up that particular experiment. Make-ups for any lab are not possible outside this given time frame. To make-up a laboratory with another instructor, you must fill out the make-up lab form and turn in to the lab coordinator (Dr. Sra in SLC 3.513). The make-up lab form is posted on elearning. You will receive an email from the lab coordinator confirming your assignment to another lab section. Forms should be turned in as soon as possible. For students participating in UTD sports activities (the complete schedule must be attached and signed by responsible coach or team leader) and religious holidays the form should be submitted at least 2 weeks prior to the event. In case of medical absence attach a doctor's note.

Teaching Assistants and Lab Sections

Day/Time	Section	Instructor	Teaching Assistant	E-mail
M 7:00AM	101	Dr. Gavva	Kallu, Jyothi	jxk162030@utdallas.edu
	102	Mr. Huang	Berry, Danielle	drb160230@utdallas.edu
	103	Dr. Walker	Calabaquib, Erika	elc160430@utdallas.edu
M 10:00 AM	104	Dr. Gavva	Calabaquib, Erika	elc160430@utdallas.edu
	105	Dr. Sra	Kallu, Jyothi	jxk162030@utdallas.edu
	106	Dr. Walker	Berry, Danielle	drb160230@utdallas.edu
M 1:00 PM	107	Dr. Gavva	Coffer, Meagan	mac151630@utdallas.edu
	108	Mr. Huang	Abeyrathna, Sameera	ssa161030@utdallas.edu
	109	Dr. Qin	Cue, John	joc160230@utdallas.edu
M 4:00 PM	110	Dr. Shah	Cue, John	joc160230@utdallas.edu
	111	Mr. Huang	Coffer, Meagan	mac151630@utdallas.edu
	112	Dr. Walker	Abeyrathna, Sameera	ssa161030@utdallas.edu
M 7:00 PM	142	Dr. Shah	Nguyen, Do Duc	dxn111130@utdallas.edu
T 7:00AM	113	Dr. Walker	Martinez, Patricia	pxm125730@utdallas.edu
T 10:00AM	114	Dr. Qin	Martinez, Patricia	pxm125730@utdallas.edu
T 1:00PM	115	Dr. Qin	Paliaththa Kumarage, Dileepa	pxd150930@utdallas.edu
	116	Dr. Shah	Nguyen, Do Duc	dxn111130@utdallas.edu
T 4:00 PM	117	Dr. Qin	Welch, Raymond	rpw031000@utdallas.edu
W 7:00AM	118	Dr. Gavva	Dickens, Angela	add130130@utdallas.edu
	119	Mr. Huang	Malekpour, Soheil	sxm165830@utdallas.edu
	120	Dr. Walker	Tutol, Jasmine	jnt160330@utdallas.edu
W 10:00 AM	121	Dr. Gavva	Malekpour, Soheil	sxm165830@utdallas.edu
	122	Mr. Huang	Dickens, Angela	add130130@utdallas.edu
	123	Dr. Shah	Tutol, Jasmine	jnt160330@utdallas.edu
W 1:00 PM	124	Dr. Gavva	Mowery-Batnij, Sharif (Alex)	sam160830@utdallas.edu
	125	Dr. Qin	Ranathunga, Dineli	dxr161130@utdallas.edu
	126	Dr. Walker	Tegaboue, Augustin	axt127230@utdallas.edu
W 4:00 PM	127	Dr. Sra	Tegaboue, Augustin	axt127230@utdallas.edu
	128	Mr. Huang	Mowery-Batnij, Sharif (Alex)	sam160830@utdallas.edu
	129	Dr. Walker	Ranathunga, Dineli	dxr161130@utdallas.edu
R 7:00AM	130	Dr. Gavva	Gorby, Amanda	ajg150830@utdallas.edu
	131	Dr. Walker	Youn, Jonghae	jxy140930@utdallas.edu
R 10:00 AM	132	Dr. Qin	Youn, Jonghae	jxy140930@utdallas.edu

R 1:00 PM	133	Dr. Qin	Paliaththa Kumarage, Dileepa	pxd150930@utdallas.edu
	134	Mr. Huang	Martin, Thomas	tjm150230@utdallas.edu
R 4:00 PM	135	Dr. Qin	Welch, Raymond	rpw031000@utdallas.edu
	140	Dr. Walker	Panangala Samitha	sdp140230@utdallas.edu
	141	Mr. Huang	Martin, Thomas	tjm150230@utdallas.edu
F 7:00 AM	136	Mr. Huang	Gorby, Amanda	ajg150830@utdallas.edu
	137	Dr. Gavva	Zhou, Qinhan	qxz160530@utdallas.edu
F 10:00 AM	143	Dr. Shah	Wang, Zhong	zxw161030@utdallas.edu
F 1:00 PM	138	Mr. Huang	Zhou, Qinhan	qxz160530@utdallas.edu
	139	Dr. Gavva	Wang, Zhong	zxw161030@utdallas.edu

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.

<u>Please always include both – your TA and your instructor – in your e-mail.</u> Emails should include your section number, day and time your lab meets.

Assignments & Academic Calendar- CHEM 1111

There will be twelve lab experiments during the semester. <u>There will be no makeup labs and you are not allowed to perform your experiments in another</u> Lab section.

Your final grade for the lab will be determined after dropping the lowest lab score (experiments # 1-12).

Experiment 14 is a capstone experiment and cannot be dropped.

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

Week of:	Exp.	Experiment	Pre-Lab No.	Report Due Week of
		Syllabus/Check-in/Lab Safety		Lab safety quiz
8/29 - 9/02/2016				on elearning
				9/06
9/06 – 9/12/2016	1	Basic Laboratory Operations	1	09/13
9/13 – 9/19/2016	3	Properties of Light	3	09/20
9/20 - 9/26/2016	4	Atomic Structure	4	09/27
9/27-10/3/2016	2	Copper Cycle	2	10/04
10/04 - 10/10/2016	5	Periodic Trends	5	10/11
10/11 – 10/17/2016	6	Molecular Geometry and Polarity	6	10/18
10/18 – 10/24/2016	7	Percent Composition	7	10/25
10/25 – 10/31/2016	8	Limiting Reagent	8	11/01
11/01 – 11/07/2016	9	Qualitative Analysis	9	11/08
11/08 – 11/14/2016	10	Titration I	10	11/15
11/15 – 11/28/2016	12	Calorimetry	12	11/29
11/21 – 11/25/2016		Fall Break		
11/20 12/5/2017	14	Capstone: Airbag Lab & Check out	14 -	11/29
11/29 – 12/5/2016		Experiment 14 cannot be dropped	Research	

Nov 21th (Monday) is fall break and student needs to do CALORIMETRY experiment on Nov 28th (Monday). Everyone must checkout during the week of November 29th, 2016. <u>Failure to checkout will result in withholding of grade</u>.

Course Policies

Course Policies	,
Safety	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: www.utdallas.edu/nsm/chemistry/resources/safety.html In addition arms, legs and feet should be covered in lab. Short pants and skirts (which expose calves or thighs) are not allowed. Sleeveless shirts (including spaghetti strap shirts), or shirts that expose your midriff are also not allowed—however, a lab coat may be worn over these shirts during lab. Closed-toed shoes that fully cover your foot are also required. Hair longer than shoulder length must be tied in an appropriate manner to keep it out of harm's way.
Safety Quiz	Login to the elearning lab course. Read the syllabus and the three safety documents in the safety folder. A safety quiz will pop-up ONLY after you have reviewed the safety documents. Begin the safety quiz. You have multiple attempts to obtain a 100% on the safety quiz. The pre lab quizzes will NOT open up until you complete and obtain 100% on the safety quiz.
Pre-lab	Each week students are expected to prepare for the lab by: A. Reading and understanding the experiment B. Answering about 5-6 questions on eLearning for that particular lab. You will be given 30 minutes to answer the questions. It is absolutely imperative that you have read and UNDERSTOOD the lab prior to beginning the pre-lab quiz. The pre-lab quiz questions will be displayed one at a time, and you will not be permitted to go back, once you have submitted an answer. Students are expected to take the pre-lab quiz on their own, without help from anyone or the internet. However, students are permitted to use their lab manuals or textbook during the pre-lab quiz. Pre-labs will be due at midnight the evening before you perform the experiment. Students who do not complete the pre-lab quiz and/or receive a score of zero will not be permitted in the workshop and the lab for that day. No make-up lab will be allowed.
Workshops	Students will work in groups during the first 45 min of the lab period. Workshops are <i>open discussions</i> designed to help you understand the concepts and techniques involved in each experiment. The goal here is to make the lab experience more enjoyable by assisting students to reach a basic, overall understanding of the experiment and the science. It is advised to read and gain an initial understanding the lab prior to the lab period in order to be better prepared for both the Workshops and the Experiments. Student work in the workshop will be collected at the end of the workshop period. Workshops count for 10% of the course grade.
Lab Etiquette	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 cannot earn Lab Readiness Points. • Students who miss more than three experiments FOR ANY REASON are advised to withdraw from the course.

	All members of the group must be present during the entire experiment.		
	Any member that leaves early or takes long breaks during the experiment		
	will receive a grade of zero for that experiment.		
	No experiments can be made up		
	No section switching is allowed		
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 beginning of the next lab period. For example, if an experiment is performed between 10:00 – 12:45 PM on Tuesday, September 06, 2016, the write-up for that exp. will be due at 10:00 AM next Tuesday, September, 13, 2016. Lab reports submitted later on the same day will receive a 5 point deduction. Any further LATE lab reports will be accepted but will receive a 10 point deduction EACH DAY it is late. Any student found working on the lab report during workshop will automatically receive a 20 point deduction – 10 points for lab report being turned in late and 10 points for lack of participation in the workshop.		
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 7.89x10 ⁻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, the TA must review and sign your data sheet.		
	Leave sufficient time at the end of laboratory period for cleaning up. Make sure you		
Clean-Up	thoroughly clean all the equipment, glassware and also clean-up your bench. If you		
Стеан-Ор	do not comply with cleanup and other general rules pertaining to the lab, your grad		
	for that lab will be lowered. Please see "penalty points" for detail.		
	Points can be deducted from your final grade to each experiment for any of the		
	following reasons:		
	• Lack of participation in the workshop and/or the laboratory (absent* or		
	inattentive) 5 – 50 points		
	• Late lab report 10 points per day late		
	• Late lab report (same day late submission) 5 points		
	• Safety violations (see posted notes for details) 5 – 50 points		
	Illegible handwriting or computer generated work (unless otherwise		
	arranged) 5 – 10 points		
Penalty Points	Calculations that are not complete or cannot be followed The points		
1 charty 1 omits	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		
	• After a 10 minute grace period, students will not be allowed to attend		
	the workshop and the lab. At the discretion of the instructor, under		
	extenuating circumstances, the student may be allowed to participate in		
	the lab but all points for the workshop will be deducted.		
	Any student who does not complete the pre-lab quiz will not be permitted		
	to perform that day's experiment. Therefore, students should read and		
	understand the lab BEFORE they attempt the pre-lab quiz.		

Chemistry Stockroom SLC 3.221	Broken items will need to be replaced by filling out a breakage form with the appropriate information. The TA will assist in filling the breakage form and submitting it to the Chemistry stockroom manager along with a copy of your comet card. Broken charges are summed and entered into your account at the end of the semester. 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. Failure to reconcile your account with the Bursar office will result in withholding of your CHEM 1111 grade.			
Lab Drawers		out of your laborator or CHEM 1111 Grade.		ore Finals Week will result in
Special Assignments	None			
Extra Credit	None			
Grading (credit) Criteria	Summary of Points: Each experiment: Pre-lab quiz 20 Workshop 10 Lab Write Ups 70 Total 100			
Comet Creed	This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same: "As a Comet, I pledge honesty, integrity, and service in all that I do."			
UT Dallas Syllabus Policies and Procedures	The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please go to http://go.utdallas.edw/syllabus-policies for these policies.			

These descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.