CHEM 1111 General Chemistry I Laboratory				
	Professors	Sections		
UTD	Sandhya Gavva, Ph.D	101		
	Amandeep Sra, Ph.D	103, 105		
	Yanping Qin, Ph.D	102, 104, 106, 107		
Term	Spring 2017			
Mootings	Workshops: SLC 3.102			
Meetings	Labs: SLC 3.202			

Professors' Contact Information

	Phone	Office	Email Address	Office Hours
Dr. Gavva	972-883-2279	SLC 3.501	sgavva@utdallas.edu	T 10 - 12 pm
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 1 - 2 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	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 2.502) for an updated list of tutors (contact your instructor for further guidance) 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.
	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.
Make-Up Labs	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
T 07:00 AM	101	Dr. Gavva	Welch, Raymond	rpw031000@utdallas.edu
T 10:00 AM	102	Dr. Qin	Welch, Raymond	rpw031000@utdallas.edu
T 1:00 PM	103	Dr. Sra	Malekpour, Soheil	sxm165830@utdallas.edu
R 10:00 AM	104	Dr. Qin	Vienes, Jevalyne	jsv160530@utdallas.edu
R 1:00 PM	105	Dr. Sra	Vienes, Jevalyne	jsv160530@utdallas.edu
F 7:00 AM	106	Dr. Qin	Martinez, Patricia	pxm125730@utdallas.edu
F 1:00 PM	107	Dr. Qin	Martinez, Patricia	pxm125730@utdallas.edu

The easiest way to contact an instructor and/or TA is via e-mail. Instructors and TAs check their e-mail frequently and try to respond as fast as possible. Please always include both – your TA and your instructor – in your e-mail. Emails should include your section number, and day & time your lab meets.

Assignments & Academic Calendar- CHEM 1111

There will be twelve 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 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
1/17 – 1/23/2017				on elearning
				1/24
1/24 – 1/30/2017	1	Basic Laboratory Operations	1	1/31
1/31 – 2/06/2017	3	Atomic Structure	3	2/7
2/7 – 2/13/2017	4	Properties of Light	4	2/14
2/14 - 2/20/2017	2	Copper Cycle	2	2/21
2/21 – 2/27/2017	5	Periodic Trends	5	2/28
2/28 – 3/06/2017	6	Molecular Geometry and Polarity	6	3/7
3/7 – 3/20/2017	7	Percent Composition	7	3/21
3/13 – 3/18/2017		Spring Break		
3/21 – 3/27/2017	8	Limiting Reagent	8	3/28
3/28 – 4/3/2017	9	Qualitative Analysis	9	4/4
4/4 – 4/10/2017	10	Titration I	10	4/11
4/11 – 4/17/2017	12	Calorimetry	12	4/18
4/18 – 4/24/2017	14	Capstone: Airbag Lab & Check out	14 - Research	4/18
4/10 - 4/24/2017		Experiment 14 cannot be dropped		

Everyone must checkout during the week of April 18^{th} , 2017. Failure to checkout will result in withholding of your final grade.

Course Policies

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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. Lab coats are provided to all students and must be worn at all times.
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 <u>prior to</u> the lab period in order to be better prepared for both the <u>Workshops</u> and the <u>Experiments</u> . 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.

Lab Write-Ups	 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 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, January 24, 2017, the write-up for that exp. will be due at 10:00 AM next Tuesday, January 31, 2017. 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 <u>must be written in pen</u> . In case of wrong entries, mark through the incorrect entry with a single line, then write the correct entry next to it. If an entire table is wrong, cross out the old table and 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.			
Clean-Up	Leave sufficient time at the end of the laboratory period for cleaning up. Make sure you thoroughly clean all the equipment, glassware, and your lab 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.			
Penalty Points	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) • Late lab report • Same day late lab report submission • Safety violations (see posted notes for details) • Safety violations (see posted notes for details) • Illegible handwriting or computer generated work (unless otherwise arranged) • Calculations that are not complete or cannot be followed • Calculations that are not complete or cannot be followed • Failure to clean up equipment, glassware, working area, community equipment (e.g. balance) • 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. 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	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."			he same:
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.edu/syllabus-policies for these policies.			

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