CHEM 1112 General Chemistry II Laboratory			
	Professors	Sections	
DALLA PARTIES AND	Sandhya Gavva PhD	-118 and 119	
Term	Spring 2023		
Meetings	Workshops: SLC 1.102 and SLC 3.102 Labs: SLC 1.205 and SLC 1.211		

Professor and TA's Contact Information

Name	Sections	Email Address
Mauricio Gerardo Martil De La	118	Mauricio.martil@utdallas.edu
Garza		
Upeksha Dissanayake	119	upekshad@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. Please always include both – your TA and your instructor – in your e-mail.

Office hours: M 11AM -12 Noon

TA will post their booking hours on eLearning.

General Course Information

Pre-requisites, Co-requisites, & other restrictions	Passing Grades in both CHEM 1311 and CHEM 1111 (General Chemistry I Lecture and Lab) or equivalents. No Audits allowed.		
Course Description			
Expected Learning Outcomes	4. Determine equilibrium constant of a chemical system		
Required Texts & Materials	• Access to online labs through LabFlow. https://labflow.com . You will need to purchase an access code either online through their website or		

Class Attendance Course Access	download it at https://openstax.org/details/books/chemistry-atoms-first-2e Regular and punctual class attendance is expected regardless of modality. Students who fail to attend class regularly are inviting scholastic difficulty. This course can be accessed using your UT Dallas NetID account on the elearning website. Please see the course access and navigation section of the Getting Started with elearning webpage for more information. To become familiar with the elearning tool, please see the
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The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from Server completing a time sensitive assessment activity, the instructor will provide Unavailability an appropriate accommodation based on the situation. Students should or Other immediately report any problems to the instructor and also contact the **Technical** online eLearning Help Desk. The instructor and the eLearning Help Desk **Difficulties** will work with the student to resolve any issues at the earliest possible time. The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom Classroom materials may not be reproduced or shared with those not in **Materials** class or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct. Any recording made will be available to all students registered for this class as they are intended to supplement the classroom experience. Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student Access Ability has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. If the instructor or a UTD Class school/department/office plans any other uses for the recordings, consent **Recordings** of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law. Failure to comply with these University requirements is a violation of the Student Code of Conduct. The instructor may record meetings of this course. These recordings will be made available to all students registered for this class if the intent is to supplement the classroom experience. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law.

Assignments & Academic Calendar – CHEM 1112

There will be 11 lab experiments during the semester. <u>There will be no makeup labs and you are required to attend your own Lab section.</u>

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

Day	Exp. #	Experiment	Report Due	
Jan 23 -Jan 27	1	Syllabus, Check-in & Lab Safety	Jan 30 -Feb 3	
Jan 30 -Feb 3	2	Excel Exercise	Feb 6 -Feb 10	
Feb 6 -Feb 10	3	Constant Pressure Calorimetry	Feb 13 -Feb 17	
Feb 13 -Feb 17	4	Molar Mass Determination through Freezing Point Depression	Feb 20 -Feb 24	
Feb 20 -Feb 24	5	Kinetics of Iodine Clock Reaction	Feb 27 -Mar 3	
Feb 27 -Mar 3	6	Le Chatelier's Principle	Mar 6 – Mar 10	
Mar 6 – Mar 10	7	Buffer Solutions	Mar 20 – Mar 24	
Mar 13 – Mar 19		Spring Break		
Mar 20 – Mar 24	8	Determination of Molar Mass and Identity of a Diprotic Acid	Mar 27 – Mar 31	
Mar 27 – Mar 31	9	Determination of Solubility Product Constant	Apr 3 – Apr 7	
Apr 3 – Apr 7	10	Entropy of Borax Dissolution	Apr 10 – Apr 14	
Apr 10 – Apr 14	11	Voltaic Cell	Apr 17 – Apr 21	

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. In addition, arms, legs, and feet should be <u>covered</u> 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 <u>fully</u> cover your foot are also required. Hair longer than shoulder length must be put up in an appropriate manner to keep it out of harm's way. In summary, all students are responsible for all information inside the undergraduate safety manual uploaded on eLearning. Additional recommendation: Read the additional safety documents in the safety folder on eLearning.
Pre-labs	Prelabs will be conducted on LabFlow platform. Each week students are expected to prepare for the lab by: A. Reading and understanding the experiment. B. Answering about 10-12 questions on LabFlow for that particular lab. You will be given 2-hour window to complete the prelab quiz. You will have two attempts to complete the pre-lab quiz. It will be due the night before the lab at 11:59 pm (midnight). For example, if your lab section meets anytime on Thursday, the pre-lab for that exp. will be due at 11:59 PM (midnight) on Wednesday in the same week. It is imperative that you have read and UNDERSTOOD the lab prior to beginning the pre-lab quiz. 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 materials on LabFlow and/or textbook during the pre-lab quiz. Students who do not complete the pre-lab quiz will receive a score of zero for that pre-lab. There will be no extensions provided for the pre-lab.
Workshops (Lab Lecture)	Workshops (Lab Lectures) 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 to be better prepared for both the discussion and the experiments. Attendance in workshop is mandatory. Failure to participate in the

	_		_	duction from lab grade. Repeated articipate in the lab.
Post-Lab Assignments	your data on I attempts) and a Note that the 2 get Q.6 incorre attempt you ne Most experime You will be given will be due at 1 Note: A hando course page.	LabFlow. You answering que attempts are ect but Q.7 co ed to change onts will end waven a week or lab meets on attempts on writing out on writing	estions in leastions in leastions in least orrect in y Q.6 and cavith an execution Tuesday idnight) not generated.	ed for this course. You will be entering performing the analysis of the data (2 LabFlow. dent of each other. For example: If you your first attempt, then in your second alculate new values for Q.7. ecutive summary of your lab. complete the post-lab write-up. For y, Jan 31, 2023, the post-lab for that exp. ext Monday, Feb 6, 2023. utive summary is posted on eLearning
Data	your data to is	mprove accur	racy. 0.0	significant figures when manipulating 000789 does not equal to 0.0008, it's t improve % error.
	Summary of F Each experime Pre-lab quiz Post Lab Assig (data + executi	nt: nments	Pts. 25	75
	Total 100			
Grading (credit) Criteria	as the one below where the class average is set at the "B-/C+" border (e.g.,			
	A+	97 & ab	oveC	73-76
	A	93-96	C-	70-72
	A-	90-92	D+	67-69
	B+	87-89	D	63-66
	В В-	83-86	D- F	60-62
	B- C+	80-82 77-79	Г	59 & below
	Note: Each Section is a unique course; sections are not graded together, but			e: sections are not graded together but
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	If you suspect that an assignment has been graded incorrectly, you have <u>one</u> week, after the assignment is returned to you, to contact the TA/instructor to have the grade changed.
Extra Credit	None
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.edu/syllabus-policies for these policies.

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