

Ms. Anu Sharma *MS MEd MBA*
 Chemistry Department
 De Anza College

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Office Hours : 5:20 pm – 6:20 pm M & W
 SC2202

Chemistry – Chem 1A								
CRN	Subject	Course	Section	Units	Title		Campus	
		Start Date		End Date	Days	Times	Bldg	Room
32199	CHEM	1A	61	5.00	GENERAL CHEMISTRY		DeAnza College	
		JAN 9, 2017		MAR 22, 2017	Mon & Wed	02:30 PM - 5:20 PM	SC	SC2202

PLEASE NOTE: We will refer to MAIN COURSE syllabus by Dr. Pollom from time to time. These are general guidelines for the section that meets with me on Monday and Wednesday for Laboratory in room SC2202. I will be coordinating with Dr Pollom regarding your progress on a regular basis.

BOOKS AND SUPPLIES (REQUIRED)

- LAB MANUAL - <http://www.deanza.edu/chemistry/pdf/1A/Experiments/>
- LABORATORY NOTEBOOK (Carbon Copy)
- Laboratory safety goggles, toe-covered shoes, and scientific calculator.

GRADING

Graded Items	
10 Labs @ 10 points each	100
10 PreLabs @ 5 points each	50
1 Lab Exam @ 100 points each	100

TOTAL : 250

Homework

Homework also includes “Writing the PRELAB” which is DUE before each Lab. See Pre Lab Report Guidelines for details.

Labs

10 Experiments and ONE Work sheets : Lab reports are due the SAME DAY of the lab after completing the experiment. No points will be awarded for missed labs. Missing 2 Labs is a FAILING grade. Each lab report is 10 points. ALL calculations need to be SHOWN. Read the Lab Exercises prior to each session. PreLabs are 5 points and are due before the start of the lab session. PreLab is a 1 page report which primarily includes the “Procedures of experiments”. See handouts for more details.

Lab Final Exam

Lab Final Exam is CUMULATIVE. Attendance is Mandatory. No Take Homes allowed.

LABORATORY Participation

Attendance: A no call / no show absence for first 2 lab periods will be dropped and the slot will be allotted to next student waiting in line. During the semester, more than 3 absences will affect your conceptual understanding and may result in a failing grade for that assignment. You will be marked ABSENT for TRUANCY as well. Please be PUNCTUAL and ATTEND LAB SESSIONS regularly.

SPECIAL NEEDS ACCOMMODATIONS: De Anza College has excellent Program & Services for Students with Disabilities. Disabled Support Programs and Services Center (DSPS) operates under mandates set forth in Section 504 and Section 508 of the Rehabilitation Act of 1973; the Americans With Disabilities Act of 1990; and Title V of the California Code of Regulations. Please Schedule an appointment with a **Disability Support Services Counselor in Room 141** or by calling 408.864.8753 Please let me know what accommodations are needed. Please visit - <http://www.deanza.edu/dsps/>

MY TEACHING PHILOSOPHY:

I follow Jean Piaget's "**Constructivist Approach**" where a student learns by being an **active participant** in his/her learning. The instructor generates **inquiry** in the minds of the students by asking questions and the students obtain response through thinking, reading, guessing, discussing, experimenting, observing and researching. The students are encouraged to explore and look for patterns and derive conclusions. I understand that students have different **learning styles** and not everyone learns at the same pace, therefore I believe in giving opportunities for continuous learning, hence the curriculum remains **open ended**. I see my role as a facilitator in your learning. Please see **Howard Gardner's theory of Multiple Intelligences** (see chart on MI theory) and let me know your most preferred intellectual domain so I may understand you better and individualize your learning experience as needed. Constructivists also believe in the power of "**Cooperative Learning**" – that students learn from each other in **teams** and that they learn even more, when students **teach each other** – so, I do encourage sharing ideas, explaining concepts, presenting materials as and when needed. This form of teaching leads to **experiential learning** – where students learn through experiences. Therefore, **classroom participation** is very important and I expect each student to **add value** to the system in the best of their capacities. The focus during the course will be on building **higher order thinking skills** (see chart on **Bloom's Taxonomy**) with special emphasis on analysis and synthesis of knowledge and understanding. Constructivists believe in the power of building upon the innate knowledge present in individuals, therefore **pre studying** is critical to building a strong foundation for understanding. Pre studying will not only allow you to actively participate in the lectures, but also will give you the base to ask **intelligent** and **thoughtful questions** that bring value to the class as a whole. Students entering the class with an **open mind** benefit the most from this approach. More on Constructivist Theory of Learning can be read in the following link - [http://en.wikipedia.org/wiki/Constructivism_\(learning_theory\)](http://en.wikipedia.org/wiki/Constructivism_(learning_theory))

STUDENT CODE OF CONDUCT – Please refer to Student Handbook for more :-

A conduct that fosters learning is expected from students. Unacceptable behaviors are -

Plagiarism = Copying others' work for grade and without acknowledging the author

Fabrication = Falsification of data

Deception = False excuses or false claim to submission of work

Cheating = Obtaining assistance on tests

Sabotage = Willfully disruption of class exercises/experiments/lectures

Harassment = Sexual and/or Intimidation (towards other students and/or professor)

Obstruction = Of teaching activities/administrative work/learning environment/ lectures

Defiance = Disobedience and/or Insulting behavior (towards other students & professor)

Possession = Firearms and/or drugs

Vandalizing = College property and/or of others

Stealing = Property belonging to college (including work sheets/tests/grade book)

Discrimination = Race, gender, religion, age, national origin, disability and statuses protected by law

Copying is cheating hence an act of **Academic Dishonesty** which will earn you a "0" and a referral.

LABORATORY CLASS ROOM DISCIPLINE

Please follow the **GOLDEN RULE** of politeness, courtesy, good manners, respect and honesty.

BESIDES PRACTING SAFETY RULES AT ALL TIMES, PLEASE follow these **CLASS RULES** :

PLEASE DO -

- 1) Control your anger & stay calm
- 2) Raise your hand before speaking
- 3) Let others get a fair chance to take part

PLEASE DON'T -

- 1) Distract other students with negative talk or gossip
- 2) Interrupt the instructions with questions or comments
- 3) Argue or talk back rudely with instructor and other students

In cases when instructions & learning are effected, Following preventive actions will be taken -

Preventive actions :

1st event : Personal Discussion

2nd event : Warning - Drop in a letter grade (as the case may be)

3rd event : Referral to higher authorities – Drop the class (as the case may be)

CALL SECURITY for immediate action (as the case may be)

REMEMBER : As in all human relationships, **Respect Fosters Respect**. Respect the rights of the instructor to teach and of students to learn. Speak with me in person in case you are experiencing difficulties. We are preparing you for STEM careers. Lets seek for solving problems in professional ways, just like they do in real world work places.

LABORATORY POLICIES**GENERAL SAFETY RULES :**

- 1. Behavior: DO NOT SCREAM** in event of accident. **STAY CALM.** Call me.
- 2. Discipline:** Be on time. No horse playing, running, loud talking.
- 3. Safety Goggles:** Must be worn at all times in the lab. Use only prescribed ones.
- 4. Shoes:** Must NOT be open toed, high heeled, sandals, flip-flops or dress shoes.
- 5. Food:** Must be inside your bags. No eating, chewing, or drinking is allowed.
- 6. Dress code:** No mini skirts, shorts, tank tops, sleeveless and midriff bearing tops. Neither very long flowing fabrics, delicate loose garments, skin tight attire, formal or fancy dress. Long hair should be pinned and tied in buns or braids. Remove heavy jewelry. Hats should be removed. Make up shouldn't be applied inside the lab. Ideal dress is jeans, T-shirt or buttoned up long sleeve shirt and boots or sneakers.
- 7. Waste Disposal:** Broken glasses, chemicals – used or unused go in labeled bins. Do your part. Clean up after each use of space – hoods, bench, common areas, sinks and waste sites. Notify me in case of spillage or breakage.
- 8. Chemicals & Apparatus:** Handle with care. Do not mix, touch or fiddle with unassigned lab materials. Turn off water and gas knobs. Keep hood sashes low. Please place back the common lab apparatus and chemicals after each use. Read labels. Keep all areas clean. Wash your lab apparatus in your lab kit after finishing the experiment.

PLEASE NOTE : There will be DEDUCTON of 10 points for any INFRACTION in the safety policies. NO grades awarded for that experiment in case of REPEATED VIOLATIONS.

General Laboratory Guidelines:

Laboratory is a community environment. You will be working either singly in the lab or in pairs or small groups. Please, share all glassware, chemicals and apparatus. Do NOT remove items from common areas. Place all common use supplies back to the original spot immediately after each use.

CLEANLINESS is a very important requirement while working in the lab environment. Keep your bags, water bottles, food, books away from the working area. All accidental spills and breakages need to be notified to the instructor immediately. Do your part at the sink. Wipe the work bench with a paper towel when done before leaving. In a community environment, groups often watch for those who don't do their part in maintaining cleanliness, those who leave mess in the sink, fume hoods, common areas, those who don't play fair. **Please be advised that 10 points will be deducted for not cleaning the lab apparatus after use.**

Please familiarize yourself with the scheduled experiment before coming to the lab. Do the PELAB WRITE UP. Be prepared for laboratory discussions. Get my signatures on the Data Table in the Lab Report in each lab period, as a mark of attendance in the lab. All data, observations, and notes must be recorded directly onto the laboratory notebook in black or blue ink. If you make an error, put a single line through it and rewrite next to it. Do not erase it and do not use whiteout.

Do not copy answers from other student and do not allow other student to copy your answers. However tallying the results, discussion of theories and ideas are encouraged. It's OK to make mistakes. Please write the ERROR ANALYSIS based on your data.

Guidelines for Writing Lab Reports:

Please see separate handout for instructions on Writing a Good Lab Report.

A Little bit about myself.

Born and raised in northern India, I have been living in US for past 25 years now. I hold **MS Organic Chemistry** (Clemson University), **M Ed Secondary Education** (Texas Christian University) and **MBA General Business Administration** (University of Phoenix) and 16+ years of industrial experience in pharmaceutical R&D space. I have been a recipient of Graduate Research Assistantship from National Science Foundation (NSF) to conduct research on CONSTRUCTIVIST approach in teaching science. For two consecutive years, I had applied the methodologies in this style of pedagogy, to teaching undergraduate students from various disciplines at Clemson University.

I bring with me > 26 semesters of higher education teaching experience in community colleges and university classes. I have been teaching lecture and labs of college chemistry courses – Chem 1A at De Anza College; Chem 30A & Chem 30B at Berkeley City College; Chem 30A & Chem 31 at Chabot College & Las Positas College; Chem 210 Lab at Skyline College; and Organic Chemistry Laboratories at Clemson University in Clemson, SC.

While in graduate school, I was awarded Greenville Hospital Systems Graduate Research Assistantship to conduct research in the design of antitumor agents. Professionally, I had worked in drug discovery programs as a **Medicinal Chemist** with Chiron / Novartis in Emeryville, CA for almost a decade. Employing structure based drug design techniques, my work as a bench chemist involved multistep synthesis of small organic molecules to address structure activity relationships on biological targets for desired therapeutic effects. During this time, I was also a contributor on 3 PATENTS on several new compounds which exhibited specific biological activities on cancer, diabetes and obesity projects.

Beside part time teaching, I have been working as a Senior Executive for companies that are headquartered in Hungary, Sweden, France, Spain and in USA, managing sales and marketing of cheminformatics software in worldwide territories. Apart from other requirements in this position, I have been giving webinars, and providing training through web demonstrations; attending and presenting at conferences held all over United States and in several parts of Europe. As you can imagine, this leg of my career alone has led me to travel far and wide, allowing me exposure to understand trends in drug discovery and enjoy a variety of world cultures.

For more, please see my profile - www.linkedin.com/in/anusharma1

I live with my son and a dog (Corgi + King Charles Spaniel mix) in the east bay and enjoy nature and watching sunsets on the beach. I enjoy teaching Chemistry and I look forward to an exciting semester with you all.

Anu

Ms. Anu Sharma MS MEd MBA

Adjunct Professor – Chemistry- DeAnza, Skyline, Chabot, Las Positas and Berkeley City College !
Cheminformatics – Drug Discovery & R& D – Pharmaceutical & Biotechnology
Marketing, Sales & Business Development – Consultant – Cheminformatics