

TONG De Anza College **Spring, 2016**  
Chem 25 Introductory Chemistry 5 units--12 weeks

Books &: Text: C.H. Corwin, "Introductory Chemistry," 7th ed, Pearson/Prentice (2014)

Materials Workbook: Study Guide to the above, recommended

Lab: Corwin, Chem Lab Manual for Intro. Chem, 6th ed (2012)

Scientific Calculator & Safety Goggles (available in the Bookstore).

**PRIMER** by Instructor TONG ( strongly recommended): Contains Notes discussed in lecture, copies of information used in overhead projections in class discussions, exercises & copies of past Exams.

Prerequisite: Satisfactory grade in Intro. Algebra and at least concurrent enrollment in Intermediate Algebra, (Math 105), and competency in English.  
Similar in contents to high school Honors Chemistry, but done in 3 months.

Grading: **Lecture** 75% Specifically No. Points

1 Test	100 pt + Assign + quizzes	180 pt	
( 3 one-hr) Lecture Exams	3 X 180 pt	540	
One of 4X180 pt dropped, therefore	3 of 4 180 pt = 540 pt		
one Final Exam scheduled	one	210 pt	
	750 pts total		

<b>Lab</b>	25%	Lab Tests	1 x 70 and 1 x 100	= 170 pts	
8 x Lab Write-ups, Discussion Participation & doing the lab work				80	
Grade Based	88+% A			250 pts	total
on 100%	78+ % B	<b>Lecture 750 + Lab 250 = TOTAL</b>	pts = 1000 pts		
_____ 60+% C	( + or - grade system is used)		or 100%		
_____ 50+% D					

Student progress will be primarily evaluated by quizzes & exams.

There will be no make-ups for missed worksheets, assignments or quizzes.

The **first** missed lecture exam is automatically dropped, regardless of excuse.

Other missed Exams (very unlikely) can be given only if (a) after the student has already missed one exam, then (b) for this 2nd exam, with emergency & official excuse as proof, it may be taken, but can be subjected to 15% to 25% reduction in grade, depending on the circumstances.

Framework: The course prepares the student to take college chemistry **or** to fulfill other

Science requirements, so students can move on after acquiring some knowledge of fundamental chemistry concepts, including bonding & stoichiometry, and some basic lab skills on completion of the course. **Safety goggles** must be worn in the lab. Students who have checked into the lab must check out, otherwise all the De Anza Grades will be withheld and not transferable to other colleges.

The Honor Code says cheating is not tolerated (unfair to other students) & students who cheat show no respect for other students, do not play a fair game and are subjected to penalties anywhere from class dismissal to expulsion from De Anza.

**Lab Work:** **Safety goggles must be worn** during lab work. The lab must be kept clean.  
**& Safety.** Examples: Any spilled chemicals must be cleaned up immediately, either

in the lab itself or in the Balance Room. Otherwise grade reduction will result.

**Waste Handling:** All waste chemicals must be disposed of in the waste bottles in the hood, marked with the

instructor's name and chem class. Only

one rinse (a very small volume of water, 10% to 15% of the volume of the container) is needed to remove any residual waste and also disposed of into the waste container. **All second or third rinses go down the sink.**

A student will NOT be allowed to stay in the lab if he/she does not wear safety goggles and proper attire while working on experiments in the lab.

**All pre-labs must be done before** a student shows up for the lab, and all

students (this means each and every single one of you) are to **participate** in lab discussions, including explaining what the pre-lab is all about and concepts/ terminology introduced.

**All missed lab work (i.e. not doing lab) will be graded as a zero, and unauthorized groups (like 3 students) will have reduction in grade.**

**SLO** Students will be introduced to the Periodic Table, basic math skills in unit analysis and mole concept calculations, gases, solutions and chemical bonding. In the lab, the basic lab skills like weighing, volume reading, use of Bunsen burner/heating skills and titration skills are introduced

Attendance: Each student is expected to be in attendance at all scheduled meetings of the class (Lecture and lab) (There are points given). **It is the student's responsibility** to follow up on any missed assignments, handouts, lecture discussions, test schedule changes. Students who miss accumulatively one week of classes (unexcused) will be dropped, and attendance is a factor for students' progress in the course.

Office Hours: In my Office Rm SC1226 MW at 5:00 to 5:25 PM, MW 10:20 to 10:50 PM, TTh at 5:20 PM. (my office is on the same floor level across from lab wing, my extension is X8678), (open office hours also during labs) or call (408) 864-8678 from outside the campus.

Study Habits & **Preview the lecture and lab materials before** coming to class. Continual Commitment: study rather than cramming reflects good study habits & effective learning. Students should devote **at least** 2 hours of study for every lecture hour, and at least 1 hour of study for every lab hour.

This means that **for every week,**

4-hour lecture x 2 = 8 hours

1 3-hour labs x 1 = 3 hours

11 hours/wk or about **2 hours/day**

No one who has average IQ and can walk and chew gum at the same time has ever failed the Chem 25 course if they followed the above Carnegie Commission on Higher Education 's Recommendations, spend **quality time** & be engaged (including writing notes) in the course.