

De Anza College
Chemistry Department
Spring 2018

COURSE TITLE

Chemistry 1A-01 & 02 General Chemistry

Class 04/09/18 to 06/28/18

Meeting times: Sec 01/02 Lecture 11:20 AM – 12:20 PM, MWF, Room SC1102
 Sec 01 Lab 7:30 – 10:20 PM, MW, Room SC2202
 Sec 02 (Salehi) Lab 2:30 – 5:20 PM, MW, Room SC2202

INSTRUCTOR

Dr. John Cihonski

Contact: School e-mail: cihonskijohn@fhda.edu

OFFICE HOURS

MW 10:30-11:30 AM in Chem Faculty office area

REQUIRED MATERIALS

- 1) Text: Silberberg, Chemistry: The Molecular Nature of Matter and Change, any edition
- 2) General Chemistry Laboratory (De Anza 2015 edition) – see lab PDFs at <http://deanza.edu/chemistry/Chem1B.html>
- 3) 8.5 x 11 permanent bound laboratory notebook with carbon copies.
- 4) Safety Goggles (must be approved by instructor)
- 6) Scientific calculator

Grading Scheme

Minimum Course Score	Grade	Course Score formula	
92	A	$(3M + F + L)/580 = \text{Grade}$	
80	B		Possible points
65	C	3 Midterm Exam (M) scores	300
55	D	F = Final exam score	200
		L = Laboratory score	110
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Total Possible Points			590

Dropping - It is the responsibility of the student to drop the class and to check out of the laboratory.

Attendance - Attendance is required for **all** laboratory sessions and highly encouraged for lectures. The course is impacted; there is neither lab make-up time nor space for you to work in other lab sections. If you miss a lab, you need to discuss the issue with the instructor (valid reason and written documentations will be required).

- The 1st unexcused missed lab will result in a zero.
- The 2nd unexcused missed lab will result in failing the course.

Lecture - Each of the three exams will be worth 100 points and the comprehensive final exam will be worth 200 points. If a student is absent during any exam, he/she will receive a grade of zero. **At the discretion of the instructor, a makeup exam may be allowed for an urgent medical or legal situation** which prevents a student from attending class. In such cases, all of the following requirements will apply: 1) Student must present documentation of the reason for absence (letter from doctor or court official, including address and phone number) to the instructor on the day student returns to school, 2) **Exam must be made up within two days of missed exam**, 3) **Only one make-up exam is allowed per quarter. Work must be shown on all problems (exam, homework, etc.) to receive credit.** Bathroom breaks during an exam are discouraged. Unethical behavior of any kind will result in penalties commensurate with the significance of the behavior.

Homework – Homework as noted on the Lecture and Exam schedule is optional. However it is important for your learning the material. “Homework” constitutes the problems related to each lesson (excluding the Comprehensive Exercises) that address the material covered and are answered in the back of the text.

Laboratory - All laboratories are expected to be completed (see Attendance). Lab reports are due the next lab period within the first five minutes of the scheduled lab period. If a lab report is late it will be penalized twenty percent per *class* day. For all laboratory experiments, the advance study assignment sheet must be completed and initialed by the instructor prior to the beginning of the lab period. Laboratory data sheets

must also be initialed by the instructor before leaving the lab. An incomplete report will receive a zero. Coming sufficiently late for a lab (as determined by the instructor) may result in your *not* being permitted to do the experiment.

Chemistry 1A: Sec 01/02 Lecture 11:30 AM – 12:20 PM, MWF Room SC1102

	Topic	Chapter	Problems
1	Introduction & Measurement	C1	*
2	Theory & Structure of the Atom	2.1 to 2.6, C7, 8.1 & 8.2	*
3	Periodic Table & Trends	8.3 & 8.4	*
Exam 1			
4	Chemical Bonding	2.7, C9	*
5	Electronic & Geometric Molecular Structure	C10	*
6	VBT & MOT	C11	*
7	Nomenclature	2.8 + worksheet	*
8	Molecular Stoichiometry	3.1 & 3.2	*
Exam 2			
9	Chemical Reactions	3.3, C4	*
10	Reaction Stoichiometry	3.4	*
11	Thermodynamics	C6	*
Exam 3			
Final Exam Monday, June 25 th 11:30 AM – 1:30 PM			

* Problems are from Silberberg text(s). Homework constitutes those problems related to each lesson that address the lecture material and where the answers are provided in the back of the text. These problems are indicated by a colored problem number (red, blue, etc. depending on the text edition).

Student Learning Outcome(s):

- *Identify and explain trends in the periodic table.
- *Construct balanced reaction equations and illustrate principles of stoichiometry.
- *Apply the first law of thermodynamics to chemical reactions.