

Chemistry 1C, Summer session I, 2014

Instructor: Professor Ilan Benjamin

Lecture time and location: MWF 9:00 – 11:30 in PhysSciences 110

Overview

Chemistry 1C is the last part of a three-quarter general chemistry series. The topics covered in this class include: 1st and 2nd laws of thermodynamics, Spontaneity of Chemical Processes, Electrochemistry, Liquids, Solids and solutions and Nuclear Chemistry. These topics are covered in Chapters 9-11, 16,17 and 21 in the textbook. Some material from Chapter 6 will also be reviewed, although it is assumed to have been covered in Chem. 1A.

Prerequisite: Chem 1A, 1B, high school algebra

Required text: Chemical Principles, 7th Edition by S. S. Zumdahl

Course Credit will be assigned as follows:

Homeworks: 10%

First Exam: 40%

Second Exam: 50%

To pass the course you must score at least 50% of the total possible points.

Weekly Problem Sets: Online. These problems are taken from Zumdahl, 7th Ed.

Tentative lecture schedule:

Month				Reading	Topics
	<i>Mon.</i>	<i>Wed.</i>	<i>Fri</i>		
<i>June</i>	23	25	27	Chapters 9,10	1 st and 2 nd laws of thermodynamics
<i>June,July</i>	30	2	4-holiday	Chapter 10	Equilibrium, Entropy, Free energy
July	7	9	exam	Chapter 11	Electrochemistry
July	14	16	18	Chapter 16,17	Liquids, Solids and Solutions
July	21	23 Review	25 Exam		Nuclear Chemistry