

## Chemistry 1C, Summer Session II, 2018

**Instructor:** Professor Ilan Benjamin

**Lecture time and location:** MW 9:00 – 12:30 in Thimann 001

### Overview

Chemistry 1C is the last part of a three-quarter general chemistry series. The topics covered in this class include: 1<sup>st</sup> and 2<sup>nd</sup> 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 20 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, 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.

### Lecture schedule:

Month			Reading	Topics
	<i>Mon.</i>	<i>Wed.</i>		
<i>July, Aug</i>	30	1	Chapters 9,10	1 <sup>st</sup> and 2 <sup>nd</sup> laws of thermodynamics
<i>Aug</i>	6	8	Chapters 10, 11	Equilibrium, Entropy, Free energy
Aug	13	15 1 <sup>st</sup> exam	Chapter 11	Electrochemistry
Aug	20	22	Chapters 16,17	Liquids, Solids and Solutions
Aug	27	29 2 <sup>nd</sup> Exam	Chapter 20	Nuclear Chemistry