

## 2017- 2018 CHEMISTRY SYLLABUS ONLINE

Instructor: Mr. Rosen

Room No. 7

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Course meets Wednesdays 9am during winter break and when school starts another time will be worked out

### COURSE DESCRIPTION

This course seeks to complete a fast-paced full year of chemistry into 6 weeks. The following concepts will be addressed: The properties and structures of matter, the periodic table, proper symbolic nomenclature and representation of chemical reactions, atomic structure, properties of salts, acids and bases. Ionic and covalent bonding will be covered along with the mole concept, molarity, molality, stoichiometry, solutions/mixtures, and reaction rates. These will be taught by a variety of methods including simulation, video, traditional and hands-on approaches.

### DAILY AGENDA

I will post a weekly agenda on my personal website teaching website <http://www.jeremyrosen.weebly.com>. On my website are included many additional links to resources, tutorials, simulations, videos, examples of class work, etc... it is my advice to get familiar with this website from the very beginning. It is every student's responsibility to make-up any missed assignments and/or quizzes/tests. Only 3 absences allowed.

### COURSE TEXTBOOK

Chemistry: PEARSON CHEMISTRY FOUNDATION EDITION

### GRADING SCALE:

A = 90 - 100 % \* Assignments \* 20 % \*(includes homework)

B = 80 - 89 Participation 20 %

C = 70 - 79 Quizzes/Tests 20 %

D = 60 - 69 Project/Labwork 20 % (variable throughout the week)

F = < 60 Midterm/Final 20 % (you will take a final on the last day we meet)

## GENERAL COURSE OUTLINE

### **WINTER ONLINE SESSION**

DEC. 20 Pre-week introduction

DEC. 27 Matter, energy, atomic structure & electron configuration, periodic table (chapters 1-4)

JAN. 3 Ionic, covalent, carbon and organic compounds, the mole (chapters 5-8)

JAN. 10 Chemical equations, stoichiometry, thermodynamics (chapters 9-11)

JAN. 17 Gases & liquids, solutions, chemical equilibrium (chapters 12-14)

JAN. 24 Acids & bases. Reaction rates (chapters 15 & 16)

FEB. 7 Electrochemistry & Nuclear chemistry (17 & 18)

I have listed what would be an exceptional pace if we were to be able to cover all this in 6 weeks. However, that probably will not happen and so I will often make updates. This is just the perfect plan to shoot for. Also during our weekly meetings I will go over specifically in each chapter what to study as covering entire chapters aren't always necessary.