

# CHEM 283

## Detailed Syllabus

Fall 2019

A daily syllabus.

### 1

1. Welcome and notecard
2. Syllabus
3. Unit 0 learning objectives.
4. Stoichiometry review question.
5. Introduce the first experiment.

Assignments: 1) Return safety contract 2) Brainstorm ideas for zinc layer experiment.

### 2

1. Collect safety contract.
2. Introduce website, shared folder, and textbook.
3. Whiteboard procedure for the zinc layer experiment.
4. Data collection.

### 3

1. Finish and discuss calculations.
2. Chapter 1 problem set: 32, 38, 40, 42, 76. Active learning: 8, 14, 16.

Assignments: 1) Read Chapter 2 2) Chapter 2 problem set: 10, 12, 22, 24, 32, 56, 62, 68 (a-d), 76.

### 4

1. Show college board unit guide and ap classroom.
2. Whiteboard presentations: Chapter 1 and 2
3. R. Hoffmann reading.

## 5

1. Topic 1.1: Moles and molar mass. Ranking of increasing number of particles.

Assignment: 1) Read Chapter 3, sections 1-4.

## 6

1. Mass spectroscopy (POGIL)
2. Elemental composition of pure substances
3. Lecture: Percent composition and empirical formula.

Assignments: 1) Read 3.6-3.7 2) Questions 45 and 46 in Chapter 3.

## 7