

# CH142, Spring 2020

## This is the home of General Chemistry, CH142

---

No blog posts found.

---

### CH142 Syllabus

### Weekly class assignments

### CH142 Laboratory

[CH142 message board](#)

[Kevin's Calendar](#)

[Section A Lecture Videos](#) | [Section B Lecture Videos](#)

### CH142 Learning Goals

1. For students to deepen their appreciation for the relevance of chemistry, not just as it pertains to scientists, but also as a facet of liberal learning.
2. For students to gain a broad understanding of chemistry that leaves them prepared for organic chemistry and beyond.
  - a. To strengthen communication skills using the nomenclature used by chemists.
  - b. To learn the basic principles of mass balance and chemical equilibria.
  - c. To understand the fundamental kinetics and thermodynamics that govern chemical reactions.
3. For students to sharpen their quantitative skills in a scientific context.
4. For students to improve skills in solving problems that involve the integration and synthesis of new knowledge and to master the interface between narrative and mathematical problem solving.

### Homework (MasteringChemistry) - MasteringChemistry enrollment instructions

### Examinations

### Approximate Lecture Schedule

Week of:	Probable topic:	Textbook chapter(s):
2/5	Solution Chemistry	13
2/10	Chemical Kinetics	14
2/17	Reaction Mechanisms and Catalysis	14
2/24	Chemical Equilibria and Le Chatleier's Principle	15
3/2	Weak Acids and Bases	16
3/9	Titrations	16, 17
3/16	Lewis Acid & Bases and Molecular Structure	17
3/23	<b>Spring Break</b>	
3/30	Buffers	17

---

4/6	Solubility Equilibria & Coordination Chemistry	17, 23
4/13	Thermodynamics	19
4/20	Spontaneity and Gibbs Free Energy	19
4/27	Oxidation-reduction chemistry / Electrochemistry	20
5/4	Electrochemical Cells & Nuclear Chemistry	20, 21

---

## General Chemistry Resources

---

Search CH142 Wiki