

# CH142, Spring 2017

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### [CH142 Syllabus](#)

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## 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 registration/enrollment instructions](#)

## [Examinations](#)

## Approximate Lecture Schedule

Week of:	Probable topic:	Textbook chapter(s):
2/1	Chemical Kinetics	14
2/6	Reaction Mechanisms and Catalysis	14
2/13	Chemical Equilibria and Le Chatelier's Principle	15
2/20	Weak Acids and Bases	16
2/27	Lewis Acid & Bases and Molecular Structure	16
3/6	Buffers and Titrations	17
3/13	Solubility Equilibria	17
3/20	<b>Spring Break</b>	
3/27	Coordination Chemistry	23

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4/3	Thermodynamics	19
4/10	Spontaneity and Gibbs Free Energy	19
4/17	Oxidation-reduction chemistry	20
4/24	Electrochemistry and Electrochemical Cells	20
5/1	Nuclear Chemistry	21

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## General Chemistry Resources

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