

CHEM 1515 - General Chemistry 1

Fall 2026 Syllabus, Section 03, CRN 40703,

Credit hours: 3

Instructor

Susan Citrak

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Public Instructor Information

Instructor Title: Asst. Professor of Chemistry

Instructor Professional Qualifications: Ph.D. Inorganic Materials Chemistry, University of California, Santa Cruz

Bachelor's of Science, Chemistry Focus, Mills College, Oakland, CA

Instructor Office Location: Ward Beecher 5023

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Course Description

1515. General Chemistry 1. An introduction to the fundamental principles of chemistry, including measurement and calculation; chemical stoichiometry; the properties of gases; atomic and molecular structure; bonding; thermochemistry; and periodic properties. Intended for majors in the natural sciences and engineering. Three hours lecture. Prereq.: "C" or better in CHEM 1501 or equivalent and "C" or better in MATH 1513 or "C" or better in MATH 1510 or "C" or better in MATH 1510C. Coreq.: CHEM 1515L. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Chemistry, a Molecular Approach, 6th Edition		

via the inclusive access e-book and Mastering by Pearson through Blackboard.

This book was carefully selected due to how well it is written and for how many excellent on-line resources it has, including videos by the Author. Admittedly it takes way too many 'clicks' to get to the book, but it is worth it. I highly recommend using this excellent resource, as it will help with your journey through first semester chemistry.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Proposed Topic	Due/To Prepare for Class
Mon	8/24	Chapter 1: Matter, Measurement and Problem Solving	
Wed	8/26	Chapter 1: Matter, Measurement and Problem Solving	
Mon	8/31	Chapter 1: Matter, Measurement and Problem Solving	HW 1 (Suggested)
Wed	9/2	Chapter 2: Atoms and Elements	
Mon	9/7	Chapter 2: Atoms and Elements	
Wed	9/9	Chapter 3: Molecules and Compounds	HW 2 (Suggested)
Mon	9/14	Chapter 3: Molecules and Compounds	
Wed	9/16	Chapter 3: Molecules and Compounds	
Mon	9/21	Exam 1: Chapters 1-3	HW 3 (Suggested)

Wed	9/23	Chapter 4: Chemical Reactions and Chemical Quantities	
Mon	9/28	Chapter 4: Chemical Reactions and Chemical Quantities	HW 4 (Suggested)
Wed	9/30	Chapter 5: Introduction to Solutions and Aqueous Reactions	
Mon	10/5	Chapter 5: Introduction to Solutions and Aqueous Reactions	HW 5 (Suggested)
Wed	10/7	Chapter 6: Gases	HW 5 (Suggested)
Mon	10/12	Chapter 6: Gases	
Wed	10/14	Chapter 6: Gases	
Mon	10/19	Exam 2: Chapters 4-6	HW 6 (Suggested)
Wed	10/21	Chapter 7: Thermochemistry	
Mon	10/26	Chapter 7: Thermochemistry	
Wed	10/28	Chapter 8: Quantum Mechanical Model of the Atom	HW 7 (Suggested)
Mon	11/2	Chapter 8: Quantum Mechanical Model of the Atom	
Wed	11/4	Chapter 8: Quantum Mechanical Model of the Atom	
Mon	11/9	Chapter 9: Periodic Properties of the Elements	
Wed	11/11	Exam 3: Chapters 7-9	Chapter 8 (Suggested)
Mon	11/16	Chapter 10: Chemical Bonding I - Lewis Model	
Wed	11/18	Chapter 10: Chemical Bonding I - Lewis Model	
Mon	11/23	Chapter 11: Chemical Bonding II - Molecular Shapes, VSEPR, MO Theories	HW 9 (Suggested)
Wed	11/25	THANKSGIVING BREAK - No Classes	
Mon	11/30	Chapter 11: Chemical Bonding II - Molecular Shapes, VSEPR, MO Theories	
Wed	12/2	Chapter 11: Chemical Bonding II - Molecular Shapes, VSEPR, MO Theories	HW 10 (Suggested) ALL HW DUE BY THIS FRIDAY!! (Dec 4)
Mon	12/7	FINAL EXAM: 5:30-7:30pm in same lecture room	
Wed	12/9	Finals Week	

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