

CHEM 1516 - General Chemistry 2

Fall 2026 Syllabus, Section 02, CRN 41091,

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

1516. General Chemistry 2. A continuation of the study of the principles of chemistry, including solution properties; acids and bases; chemical equilibrium; thermodynamics; reaction kinetics; and electrochemistry. Intended for majors in the natural sciences and engineering. Three hours lecture. Prereq.: "C" or better in CHEM 1515 and "C" or better in CHEM 1515L. Coreq.: CHEM 1516L; CHEM 1516R if major or repeating CHEM 1516. 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 second 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
Tue	8/25	Chapter 12: Intermolecular Forces	
Thu	8/27	Chapter 12: Intermolecular Forces Chapter 13: Solids	
Tue	9/1	Chapter 14: Solutions	HW 1 (Suggested)
Thu	9/3	Chapter 14: Solutions	
Tue	9/8	Chapter 14: Solutions	
Thu	9/10	Chapter 16: Chemical Equilibrium	HW 2 (Suggested)
Tue	9/15	Chapter 16: Chemical Equilibrium	
Thu	9/17	Chapter 16: Chemical Equilibrium	
Tue	9/22	Exam 1: Chapters 12-14, 16	HW 3 (Suggested)
Thu	9/24	Chapter 17: Acids and Bases	
Tue	9/29	Chapter 17: Acids and Bases	HW 4 (Suggested)

Thu	10/1	Chapter 17: Acids and Bases	
Tue	10/6	Chapter 18: Aqueous Ionic Equilibria	HW 5 (Suggested)
Thu	10/8	Chapter 18: Aqueous Ionic Equilibria	
Tue	10/13	Chapter 18: Aqueous Ionic Equilibria	
Thu	10/15	Chapter 18: Aqueous Ionic Equilibria	
Tue	10/20	Exam 2: Chapters 17-18	HW 6 (Suggested)
Thu	10/22	Chapter 15: Chemical Kinetics	
Tue	10/27	Chapter 15: Chemical Kinetics	
Thu	10/29	Chapter 15: Chemical Kinetics	
Tue	11/3	Chapter 19: Free Energy and Thermodynamics	HW 7 (Suggested)
Thu	11/5	Chapter 19: Free Energy and Thermodynamics	
Tue	11/10	Chapter 19: Free Energy and Thermodynamics	
Thu	11/12	Chapter 19: Free Energy and Thermodynamics	
Tue	11/17	Exam 3: Chapters 15 and 19	HW 8 (Suggested)
Thu	11/19	Chapter 20: Electrochemistry	
Tue	11/24	Chapter 20: Electrochemistry	HW 9 (Suggested)
Thu	11/26	THANKSGIVING BREAK - No Classes	
Tue	12/1	Chapter 21: Radioactivity and Nuclear Chemistry	
Thu	12/3	Chapter 22: Organic Chemistry	HW 10 (Suggested) ALL HW DUE BY THIS FRIDAY!! (Dec 4)
Tue	12/8	Finals Week	
Thu	12/10	FINAL EXAM: 8:00am in same lecture room	

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.