

Syllabus 1445 (2023-2024)
GENERAL CHEMISTRY 1
(CHEM 101)

Textbook: *Raymond Chang*, Chemistry, 14th edition, 2022

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<i>Matter and Measurements</i>		
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1.2 The Scientific Method	4	
1.3 Measurements	6	
1.4 Handling Numbers	13	
1.5 Dimensional Analysis in Solving Problems	20	
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<i>Atoms, Molecules and Ions</i>		
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2.5 Molecules and Ions	54	
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<i>Stoichiometry and Chemical Equations</i>		
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3.4 The Mass Spectrometer	88	
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3.6 Experimental Determination of Empirical Formulas	93	
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3.8 Amounts of Reactants and Products	100	
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<i>Quantum Theory and the Electronic Structure of Atoms</i>		
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12.5 The Effect of Pressure on the Solubility of Gases	538	
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