

Sample Syllabus for Chem 1151 Survey of Chemistry 1 including OpenStax link to readings. Students were required to read the chapters listed below in Openstax textbook prior attending the class

[https://openstaxcollege.org/files/textbook\\_version/hi\\_res\\_pdf/53/Chemistry-OP.pdf](https://openstaxcollege.org/files/textbook_version/hi_res_pdf/53/Chemistry-OP.pdf)

Read before attending class.

Date	Reading	Topic
8/17	1.1-1.2	Introduction, States of Matter
8/19	1.4-1.5	Significant Figures, Unit Conversion
8/24	1.6, 5.1	Density, Temperature, Specific Heat
8/26	2.1, 2.3-2.5	Atomic Theory, Periodic Table, Ionic Bonds, Covalent Bonds
8/31	2.6-2.7	Nomenclature, Review
9/2		<b><u>Exam 1</u></b>
9/9	3.1	Formula and Molecular Weights, Moles vs. Molecules
9/14	4.1-4.2	Balancing Reactions, Chemical Reactions (products and redox)
9/16	4.3-4.4	Mass Relationships, Limiting Reagents, Percent Yield
9/21	7.2-7.3	Octet Rule, Chemical Bonds, Lewis Dot Structures
9/23	7.4, 7.6	Resonance Structures, Molecular Geometry, Polarity, Review
9/28		<b><u>Exam 2</u></b>
9/30	10.1-10.2	Intermolecular Interactions, Liquid and Solid Behavior
10/5	10.3-10.5	Phase Change, Solutions
10/7	11.1, 3.3-3.4	Concentration
10/12	11.2-11.4	Concentration, Solvation, Colligative Properties
10/14	11.4-11.5	Osmotic Pressure, Colloids
10/19		<b><u>Exam 3</u></b>
10/21	9.1-9.3	States of Matter, Gas Laws
10/26	9.5	Kinetic Molecular Theory
10/28	12.1-12.3, 12.7	Reaction Rates, Orders
11/2	12.5, 21.2	Collision Theory, Radioactivity
11/4	21.3-21.6	Radioactivity, Emissions, Half-Life, Nuclear Medicine, Fusion, Fission
11/9		<b><u>Exam 4</u></b>
11/11	13.1-13.3	Reaction Equilibrium, Le Chatelier's Principle
11/16	14.1	Acids and Bases, Acid/Base Equilibrium
11/18	14.2-14.3	pK <sub>a</sub> , pH and pOH
11/30	14.6-14.7	Titrations, Buffers
12/2	14.6	pH of a Buffer, Review
12/7		<b><u>Exam 5</u></b>
12/9, 1:00-3:00pm		<b><u>Final Exam:</u></b> Cumulative