

BMC1 2025/2026 1st semester CHEMISTRY

Week	Date	Lecture
1	Sep8	Measurements (McMurry pp.39-56). Physical and chemical properties (McMurry pp.72).
	Sep9	Matter: Elements (McMurry pp.68-74). Mixtures and compounds. Chemical formulas. Naming chemical compounds (McMurry pp. 91-102, 163-164)
2	Sep15	The atomic theory. Structure of the atom, nuclear arithmetic. Atomic, molecular and molar mass relationships. (McMurry pp.75-88)
	Sep16	Percent composition and empirical/molecular formulas. Chemical equations, stoichiometry (McMurry pp.118-136)
3	Sep22	The electromagnetic spectrum. Atomic spectra. The Bohr model of hydrogen atom. The quantum mechanical model of atom (McMurry pp.196-218)
	Sep23	Electron configurations and the periodic table. Classification of the elements. Periodic trends. (McMurry pp.218-228, 243-254)
4	Sep29	Summary of general chemistry 1
	Sep30	Chemical bonds: metallic, ionic, and covalent bonds. Electron-dot structures (McMurry pp. 498, 254-261, 273-298)
5	Oct6	TEST #1 (Oct 6, Monday 6 pm)
	Oct7	VSEPR and valence bond theory (McMurry pp.313-329)
6	Oct13	Intermolecular forces (McMurry pp.329-339)
	Oct14	Thermochemistry: internal energy and state functions. Enthalpy. Hess's law (McMurry pp.362-385)
7	Oct20	Summary of general chemistry 2
	Oct21	Summary of general chemistry 2-Problem solving
8	Oct27	TEST#2 (Oct 27, Monday 6 pm)
	Oct28	The gaseous state (McMurry pp.409-432)
9	Nov3	Liquid and solid state, phase changes. The chemistry of water (McMurry pp.457-459, 462-463, 465, 467-469, 485-486, 496-498)
	Nov4	Solutions. Electrolytes and non-electrolytes (McMurry pp.151-156, 166-167, 529-543)
10	Nov10	Chemical equilibrium 1
	Nov11	Chemical equilibrium 2 (McMurry pp.636-667)
11	Nov17	Summary of general chemistry 3
	Nov18	Acids and bases 1 (McMurry pp.689-704)
12	Nov24	TEST #3 (Nov 24, Monday 6 pm)
	Nov25	Acids and bases 2 (McMurry pp.705-719)
13	Dec1	Redox reactions. Activity series of the elements. (McMurry pp.169-179, 848-852)
	Dec2	Galvanic cells (McMurry pp.853-866)
14	Dec8	Summary of general chemistry 4
	Dec9	TEST #4 (Dec 9, Tue 8 am)