

BMC1 2026/2027 1st semester CHEMISTRY

Week	Date	Lecture
1	Sep7	Measurements (McMurry pp.39-56). Physical and chemical properties (McMurry pp.72).
	Sep8	Matter: Elements (McMurry pp.68-74). Mixtures and compounds. Chemical formulas. Naming chemical compounds (McMurry pp. 91-102, 163-164)
2	Sep14	The atomic theory. Structure of the atom, nuclear arithmetic. Atomic, molecular and molar mass relationships. (McMurry pp.75-88)
	Sep15	Percent composition and empirical/molecular formulas. Chemical equations, stoichiometry (McMurry pp.118-136)
3	Sep21	The electromagnetic spectrum. Atomic spectra. The Bohr model of hydrogen atom. The quantum mechanical model of atom (McMurry pp.196-218)
	Sep22	Electron configurations and the periodic table. Classification of the elements. Periodic trends. (McMurry pp.218-228, 243-254)
4	Sep28	Summary of general chemistry 1
	Sep29	Chemical bonds: metallic, ionic, and covalent bonds. Electron-dot structures (McMurry pp. 498, 254-261, 273-298)
5	Oct5	TEST #1 (Oct 5, Monday 6 pm)
6	Oct6	VSEPR and valence bond theory (McMurry pp.313-329)
	Oct12	Intermolecular forces (McMurry pp.329-339)
7	Oct13	Thermochemistry: internal energy and state functions. Enthalpy. Hess's law (McMurry pp.362-374, 379-385)
	Oct19	Summary of general chemistry 2
8	Oct20	Summary of general chemistry 2-Problem solving
	Oct26	TEST#2 (Oct 26, Monday 6 pm)
9	Oct27	The gaseous state (McMurry pp.409-432)
	Nov2	Liquid and solid state, phase changes. The chemistry of water (McMurry pp.457-459, 462-463, 465, 467-469, 485-486, 496-498)
10	Nov3	Solutions. Electrolytes and non-electrolytes (McMurry pp.151-156, 166-167, 529-543)
	Nov9	Chemical equilibrium 1
11	Nov10	Chemical equilibrium 2 (McMurry pp.636-667)
	Nov16	Summary of general chemistry 3
12	Nov17	Acids and bases 1 (McMurry pp.689-704)
	Nov23	TEST #3 (Nov 23, Monday 6 pm)
13	Nov24	Acids and bases 2 (McMurry pp.705-719)
	Nov30	Redox reactions. Activity series of the elements. (McMurry pp.169-179, 848-852)
14	Dec1	Galvanic cells (McMurry pp.853-866)
	Dec7	Summary of general chemistry 4
	Dec8	TEST #4 (Dec 8, Tue 8 am)

Text book: McMurry: Chemistry 8th edition, Global edition