

Week	Date	Lecture	Seminar
1	Jan6	No lecture	Introduction to Chemistry
	Jan9	Measurements (McMurry pp.39-56). Physical and chemical properties (McMurry pp.72).	
2	Jan13	Matter: Elements (McMurry pp.68-74). Mixtures and compounds. Chemical formulas. Naming chemical compounds (McMurry pp. 91-102, 163-164)	
	Jan16	Atomic, molecular and molar mass relationships. (McMurry pp.75-88)	
3	Jan20	Percent composition and empirical/molecular formulas. Chemical equations, stoichiometry (McMurry pp.118-136)	
	Jan23	The electromagnetic spectrum. Atomic spectra. The Bohr model of hydrogen atom. The quantum mechanical model of atom (McMurry pp.196-218)	
4	Jan27	Electron configurations and the periodic table. Classification of the elements. Periodic trends. (McMurry pp.218-228, 243-254)	
	Jan30	Summary of general chemistry 1	
5	Feb3	Chemical bonds: metallic, ionic, and covalent bonds. Electron-dot structures (McMurry pp.927-928, 234-240, 251-277)	
	Feb6	VSEPR and valence bond theory (McMurry pp.290-306)	
6	Feb10	Intermolecular forces (McMurry pp.306-318)	
	Feb13	The gaseous state (McMurry pp.387-411)	
7	Feb17	Liquid and solid state, phase changes. The chemistry of water (McMurry pp.439-450, 146-152, 154-155)	
	Feb20	Summary of general chemistry 2	
8	Feb24	Solutions. Electrolytes and non-electrolytes (McMurry pp.140-145, 155-156, 476-489)	
	Feb27	Chemical equilibrium (McMurry pp.582-612)	
9	Mar3	Acids and bases 1 (McMurry pp.632-648)	
	Mar6	Acids and bases 2 (McMurry pp.649-663)	
10	Mar10	Thermochemistry: internal energy and state functions. Enthalpy. Hess's law (McMurry pp.340-363)	
	Mar13	Redox reactions. Activity series of the elements. Galvanic cells (McMurry pp.158-166, 785-794, 797-801)	
11	Mar17	Summary of general and inorganic chemistry 3	
	Mar20	The main group elements. s-, p-, d-block metals and hydrogen.	
12	Mar24	Nonmetals : halogens and noble gases, oxygen and sulfur, nitrogen, phosphorus and carbon	
	Mar27	Covalent bonding in organic compounds. Classification of organic compounds.	
13	Mar30	Stereochemistry.	
	Apr3	Alkanes: nomenclature and isomerism. Reactions of alkanes. Cycloalkanes	
14	Apr7	Unsaturated hydrocarbons	
	Apr10	Summary of organic and inorganic chemistry 1.	
15	Apr14	Aromatic compounds 1: aromaticity, classification and nomenclature, reactions	
	Apr17	Aromatic compounds 2:	
16	Apr21	NO LECTURE-EASTER	Problem solving for hydrocarbons
	Apr24	Organic halogen compounds	
17	Apr28	Alcohols and phenols	
	May1	NO LECTURE-LABOR DAY	Summary of aromatic compounds and organic halogen compounds
18	May5	Ethers. Organic sulphur compounds	
	May8	Aldehydes, ketones and quinones	
19	May12	Summary of organic chemistry 2	
	May15	Nitrogen containing organic compounds: aliphatic amines	
20	May19	Nitrogen containing organic compounds: heterocyclic amines. Amines with biological importance	
	May22	Carboxylic acids I.	
21	May26	Carboxylic acids II. Substituted carboxylic acids.	
	May29	Substituted carboxylic acids. Carboxylic acid derivatives1: esters and amides	
22	Jun2	Carboxylic acid derivatives2: halides and anhydrides; salts and detergents	
	Jun5	Summary of organic chemistry 3	
23	Jun9	NO LECTURE-PENTECOST	Summary of organic chemistry
	Jun12		Information about FE (discussion)