

ELEMENTARY CHEMISTRY
CHEM 1110

Spring 2021

Instructor:	Matthew Rowley	Office Hours:	Daily 1:00 pm - 2:00 pm
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Please include the course number in the subject line of all correspondence.

Tentative Schedule

This class will meet on Mondays, Wednesdays, and Fridays from 2:00 pm to 2:50 pm in room 114 of the Science Center (SC).

For the best lecture experience, read the indicated textbook chapter *before* each lecture.

	Date	Topic	Chapter
Week 1	M, Jan. 11	Chemistry: The Central Science	1.1–1.2
	W, Jan. 13	Elements and the Periodic Table	1.3–1.6
	F, Jan. 15	Measuring Physical Quantities	1.7–1.9
Week 2	M, Jan. 18	Martin Luther King Day – No Class!	
	W, Jan. 20	Numbers and Math in Chemistry	1.10–1.12
	F, Jan. 22	Temperature, Heat, and Derived Units	1.13–1.14
Week 3	M, Jan. 25	Atoms, Elements, and Isotopes	2.1–2.3
	W, Jan. 27	Atomic Weight, Periodic Table, and Atomic Structure	2.4–2.6
	F, Jan. 29	Electron Configuration	2.7–2.9
Week 4	M, Feb. 1	Catch-up/Review Day	
	W, Feb. 3	Ions and Ionic Bonds	3.1–3.4
	F, Feb. 5	Ionic Compounds	3.5–3.7

	Date	Topic	Chapter
Week 5	M, Feb. 8	Naming Ionic Compounds	3.8–3.11
	W, Feb. 10	Molecular Compounds	4.1–4.3
	F, Feb. 12	Covalent Bonds and Molecules	4.4–4.7
Week 6	M, Feb. 15	President's Day – No Class!	
	W, Feb. 17	Molecular Structure	4.8–4.9
	F, Feb. 19	Polarity and Binary Molecular Compounds	4.10–4.11
Week 7	M, Feb. 22	Catch-up/Review Day	
	W, Feb. 24	Balancing Chemical Reactions	5.1–5.3
	F, Feb. 26	Classes of Chemical Reactions	5.4–5.6
Week 8	M, Mar. 1	Spring Break – No Class!	
	W, Mar. 3	Spring Break – No Class!	
	F, Mar. 5	Spring Break – No Class!	
Week 9	M, Mar. 8	Redox Reactions	5.7–5.8
	W, Mar. 10	Chemical Calculations I	6.1–6.3
	F, Mar. 12	Chemical Calculations II	6.4–6.5
Week 10	M, Mar. 15	Catch-up/Review Day	
	W, Mar. 17	Chemical Reactions: Energy and Rates	7.1–7.3
	F, Mar. 19	Chemical Reactions: Equilibrium	7.4–7.6
Week 11	M, Mar. 22	Equilibrium Equations	7.7–7.9
	W, Mar. 24	Gases and Kinetic Molecular Theory	8.1–8.3
	F, Mar. 26	Pressure and Gas Laws	8.4–8.7
Week 12	M, Mar. 29	Gas Laws	8.8–8.11
	W, Mar. 31	Festival of Excellence – No Class!	
	F, Apr. 2	Liquids and Solids	8.12–8.15

	Date	Topic	Chapter
Week 13	M, Apr. 5	Solutions	9.1–9.4
	W, Apr. 7	Solubility and Dilution	9.5–9.9
	F, Apr. 9	Ions in Solution: Electrolytes	9.10–9.13
Week 14	M, Apr. 12	Catch-up/Review Day	
	W, Apr. 14	Acids and Bases	10.1–10.5
	F, Apr. 16	Acids and Bases – Calculations	10.6–10.10
Week 15	M, Apr. 19	Buffers and Titrations	10.11–10.14
	W, Apr. 21	Nuclear Chemistry	11.1–11.5
	F, Apr. 23	Nuclear Chemistry and Radiation	11.6–11.11
Finals Week	R, May 2	Final Exam — Details will be given closer to finals week	