Elementary Chemistry

CHEM 1110

Spring 2022

Instructor:	Matthew Rowley	**Office Hours:**	Daily 10:00 am – 11:00 am
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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 2:00-2:50 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. 10	Chemistry: The Central Science	1.1–1.2
	W, Jan. 12	Elements and the Periodic Table	1.3–1.6
	F, Jan. 14	Measuring Physical Quantitites	1.7–1.9
Week 2	M, Jan. 17	**Martin Luther King Day – No Class!**	
	W, Jan. 19	Numbers and Math in Chemistry	1.10–1.12
	F, Jan. 21	Temperature, Heat, and Derived Units	1.13–1.14
Week 3	M, Jan. 24	Atoms, Elements, and Isotopes	2.1–2.3
	W, Jan. 26	Atomic Weight, Periodic Table, and Atomic Structure	2.4–2.6
	F, Jan. 28	Electron Configuration	2.7–2.9
Week 4	M, Jan. 31	**Catch-up/Review Day - Midterm Exam 1 (Ch. 1–2)**	
	W, Feb. 2	Ions and Ionic Bonds	3.1–3.4
	F, Feb. 4	Ionic Compounds	3.5–3.7

	Date	Topic	Chapter
Week 5	M, Feb. 7	Naming Ionic Compounds	3.8–3.11
	W, Feb. 9	Molecular Compounds	4.1–4.3
	F, Feb. 11	Covalent Bonds and Molecules	4.4–4.7
Week 6	M, Feb. 14	Molecular Structure	4.8–4.9
	W, Feb. 16	Polarity and Binary Molecular Compounds	4.10–4.11
	F, Feb. 18	**Catch-up/Review Day - Midterm Exam 2 (Ch. 3–4)**	
Week 7	M, Feb. 21	**President's Day – No Class!**	
	W, Feb. 23	Balancing Chemical Reactions	5.1–5.3
	F, Feb. 25	Classes of Chemical Reactions	5.4–5.6
Week 8	M, Feb. 28	**Spring Break – No Class!**	
	W, Mar. 2	**Spring Break – No Class!**	
	F, Mar. 4	**Spring Break – No Class!**	
Week 9	M, Mar. 7	Redox Reactions	5.7–5.8
	W, Mar. 9	Chemical Calculations I	6.1–6.3
	F, Mar. 11	Chemical Calculations II	6.4–6.5
Week 10	M, Mar. 14	Chemical Reactions: Energy and Rates	7.1–7.3
	W, Mar. 16	Chemical Reactions: Equilibrium	7.4–7.6
	F, Mar. 18	Equilibrium Equations	7.7–7.9
Week 11	M, Mar. 21	**Catch-up/Review Day - Midterm Exam 3 (Ch. 5–7)**	
	W, Mar. 23	Gases and Kinetic Molecular Theory	8.1–8.3
	F, Mar. 25	Pressure and Gas Laws	8.4–8.7
Week 12	M, Mar. 28	Gas Laws	8.8–8.11
	W, Mar. 30	**Festival of Excellence – No Class!**	
	F, Apr. 1	Liquids and Solids	8.12–8.15

	Date	Topic	Chapter
Week 13	M, Apr. 4	Solutions	9.1–9.4
	W, Apr. 6	Solubility and Dilution	9.5–9.9
	F, Apr. 8	Ions in Solution: Electrolytes	9.10–9.13
Week 14	M, Apr. 11	Acids and Bases	10.1–10.5
	W, Apr. 13	Acids and Bases – Calculations	10.6–10.10
	F, Apr. 15	Buffers and Titrations	10.11–10.14
Week 15	M, Apr. 18	**Catch-up/Review Day - Midterm Exam 4 (Ch. 8–10)**	
	W, Apr. 20	Nuclear Chemistry	11.1–11.5
	F, Apr. 22	Nuclear Chemistry and Radiation	11.6–11.11
Finals Week	R, Apr. 28	**Final Exam** – 1:00–2:50 *Bring a pencil and scantron!*	