

ELEMENTARY CHEMISTRY  
CHEM 1110

Spring 2023

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<b>Instructor:</b>	Matthew Rowley	<b>Office Hours:</b>	Daily 10:00 am – 11:00 am
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Please include the course number in the subject line of all correspondence.

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## Tentative Schedule

This class will meet on Mondays, Wednesdays, and Fridays from 2:00 – 2:50 am in room 230 of the science center (SC). Note that this classroom is in the corner of the building, and not in one of the main hallways:

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

	Date	Topic	Chapter
Week 1	M, Jan. 9	Chemistry: The Central Science	1.1–1.2
	W, Jan. 11	Elements and the Periodic Table	1.3–1.6
	F, Jan. 13	Measuring Physical Quantities	1.7–1.9
Week 2	M, Jan. 16	<b>Martin Luther King Day – No Class!</b>	
	W, Jan. 18	Numbers and Math in Chemistry	1.10–1.12
	F, Jan. 20	Temperature, Heat, and Derived Units	1.13–1.14
Week 3	M, Jan. 23	Atoms, Elements, and Isotopes	2.1–2.3
	W, Jan. 25	Atomic Weight, Periodic Table, and Atomic Structure	2.4–2.6
	F, Jan. 27	Electron Configuration	2.7–2.9
Week 4	M, Jan. 30	<b>Catch-up/Review Day - Midterm Exam 1 (Ch. 1–2)</b>	
	W, Feb. 1	Ions and Ionic Bonds	3.1–3.4
	F, Feb. 3	Ionic Compounds	3.5–3.7

	Date	Topic	Chapter
Week 5	M, Feb. 6	Naming Ionic Compounds	3.8–3.11
	W, Feb. 8	Molecular Compounds	4.1–4.3
	F, Feb. 10	Covalent Bonds and Molecules	4.4–4.7
Week 6	M, Feb. 13	Molecular Structure	4.8–4.9
	W, Feb. 15	Polarity and Binary Molecular Compounds	4.10–4.11
	F, Feb. 17	<b>Catch-up/Review Day - Midterm Exam 2 (Ch. 3–4)</b>	
Week 7	M, Feb. 20	<b>President's Day – No Class!</b>	
	W, Feb. 22	Balancing Chemical Reactions	5.1–5.3
	F, Feb. 24	Classes of Chemical Reactions	5.4–5.6
Week 8	M, Feb. 27	<b>Spring Break – No Class!</b>	
	W, Mar. 1	<b>Spring Break – No Class!</b>	
	F, Mar. 3	<b>Spring Break – No Class!</b>	
Week 9	M, Mar. 6	Redox Reactions	5.7–5.8
	W, Mar. 8	Chemical Calculations I	6.1–6.3
	F, Mar. 10	Chemical Calculations II	6.4–6.5
Week 10	M, Mar. 13	Chemical Reactions: Energy and Rates	7.1–7.3
	W, Mar. 15	Chemical Reactions: Equilibrium	7.4–7.6
	F, Mar. 17	Equilibrium Equations	7.7–7.9
Week 11	M, Mar. 20	<b>Catch-up/Review Day - Midterm Exam 3 (Ch. 5–7)</b>	
	W, Mar. 22	Gases and Kinetic Molecular Theory	8.1–8.3
	F, Mar. 24	Pressure and Gas Laws	8.4–8.7
Week 12	M, Mar. 27	Gas Laws	8.8–8.11
	W, Mar. 29	Liquids and Solids	8.12–8.15
	F, Mar. 31	Solutions	9.1–9.4

	Date	Topic	Chapter
Week 13	M, Apr. 3	Solubility and Dilution	9.5–9.9
	W, Apr. 5	Ions in Solution: Electrolytes	9.10–9.13
	F, Apr. 7	Acids and Bases	10.1–10.5
Week 14	M, Apr. 10	Acids and Bases – Calculations	10.6–10.10
	W, Apr. 12	Buffers and Titrations	10.11–10.14
	F, Apr. 14	<b>Catch-up/Review Day - Midterm Exam 4 (Ch. 8–10)</b>	
Week 15	M, Apr. 17	Nuclear Chemistry	11.1–11.5
	W, Apr. 19	Nuclear Chemistry and Radiation	11.6–11.11
	F, Apr. 21	<b>Catch-up/Review Day - Final Exam</b>	
Finals Week	R, Apr. 27	<b>Final Exam 1:00–2:50 Bring a pencil and scantron</b>	