

ELEMENTARY CHEMISTRY  
CHEM 1110

Fall 2024

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**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.

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## Tentative Schedule

This class will meet on Mondays, Wednesdays, and Fridays from 2:00 – 2:50 am in room 226 of the Science Center (SC).

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

	Date	Topic	Chapter
Week 1	W, Aug. 27	Chemistry: The Central Science	1.1–1.2
	F, Aug. 29	Elements and the Periodic Table	1.3–1.5
Week 2	M, Sep. 1	<b>Labor Day – No Class!</b>	
	W, Sep. 3	Measuring Physical Quantities	1.6–1.8
	F, Sep. 5	Numbers and Math in Chemistry	1.9–1.10
Week 3	M, Sep. 8	Temperature, Heat, and Derived Units	1.11–1.12
	W, Sep. 10	Atoms, Elements, and Isotopes	2.1–2.3
	F, Sep. 12	Atomic Weight, Periodic Table, and Atomic Structure	2.4–2.6
Week 4	M, Sep. 15	Electron Configuration	2.7–2.9
	W, Sep. 17	<b>Catch-up/Review Day - Exam 1 (Ch. 1–2)</b>	
	F, Sep. 19	Monoatomic Ions	3.1–3.4
Week 5	M, Sep. 22	Polyatomic Ions	3.5–3.7
	W, Sep. 24	Ionic Compounds	3.8–3.11
	F, Sep. 26	Molecular Compounds	4.1–4.3

	Date	Topic	Chapter
Week 6	M, Sep. 29	Covalent Bonds and Molecules	4.4–4.7
	W, Oct. 1	Molecular Structure	4.8–4.9
	F, Oct. 3	Polarity and Binary Molecular Compounds	4.10–4.11
Week 7	M, Oct. 6	<b>Catch-up/Review Day - Exam 2 (Ch. 3–4)</b>	
	W, Oct. 8	Balancing Chemical Reactions	5.1–5.2
	F, Oct. 10	Solubility and Acid/Base Reactions	5.3–5.4
Week 8	M, Oct. 13	<b>Fall Break – No Class!</b>	
	W, Oct. 15	Redox Reactions	5.5–5.7
	F, Oct. 17	Chemical Calculations I	6.1–6.3
Week 9	M, Oct. 20	Chemical Calculations II	6.4–6.5
	W, Oct. 22	Chemical Reactions: Energy and Rates	7.1–7.3
	F, Oct. 24	Chemical Reactions: Equilibrium	7.4–7.6
Week 10	M, Oct. 27	Equilibrium Equations	7.7–7.9
	W, Oct. 29	<b>Catch-up/Review Day - Exam 3 (Ch. 5–7)</b>	
	F, Oct. 31	Gases and Kinetic Molecular Theory	8.1–8.3
		Pressure and Gas Laws	8.4–8.7
Week 11	M, Nov. 3	Gas Laws	8.8–8.11
	W, Nov. 5	Liquids and Solids	8.12–8.14
	F, Nov. 7	Solutions	9.1–9.3
Week 12	M, Nov. 10	Solubility and Dilution	9.4–9.8
	W, Nov. 12	Electrolyte Solutions	9.9–9.11
	F, Nov. 14	Acids and Bases	10.1–10.2
Week 13	M, Nov. 17	Acids and Bases – Calculations	10.3–10.8
	W, Nov. 19	Buffers and Titrations	10.9–10.11
	F, Nov. 21	<b>Catch-up/Review Day - Exam 4 (Ch. 8–10)</b>	

	Date	Topic	Chapter
Week 14	M, Nov. 24	<b>Thanksgiving Break – No Class!</b>	
	W, Nov. 26	<b>Thanksgiving Break – No Class!</b>	
	F, Nov. 28	<b>Thanksgiving Break – No Class!</b>	
Week 15	M, Dec. 1	Nuclear Chemistry	11.1–11.5
	W, Dec. 3	Nuclear Chemistry and Radiation	11.6–11.9
	F, Dec. 5	<b>Catch-up/Review Day - Final Exam</b>	
Finals Week	R, May 2	<b>Final Exam 3:00–4:50 pm: Bring a pencil and scantron</b>	