

ELEMENTARY CHEMISTRY
CHEM 1110

Fall 2022

Instructor:	Matthew Rowley	Office Hours:	MWF 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 11:00 am – 11:50 am in room 130 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. 31	Chemistry: The Central Science	1.1–1.2
	F, Sep. 2	Elements and the Periodic Table	1.3–1.6
Week 2	M, Sep. 5	Labor Day – No Class!	
	W, Sep. 7	Measuring Physical Quantities	1.7–1.9
	F, Sep. 9	Numbers and Math in Chemistry	1.10–1.12
Week 3	M, Sep. 12	Temperature, Heat, and Derived Units	1.13–1.14
	W, Sep. 14	Atoms, Elements, and Isotopes	2.1–2.3
	F, Sep. 16	Atomic Weight, Periodic Table, and Atomic Structure	2.4–2.6
Week 4	M, Sep. 19	Electron Configuration	2.7–2.9
	W, Sep. 21	Catch-up/Review Day - Midterm Exam 1 (Ch. 1–2)	
	F, Sep. 23	Ions and Ionic Bonds	3.1–3.4
Week 5	M, Sep. 26	Ionic Compounds	3.5–3.7
	W, Sep. 28	Naming Ionic Compounds	3.8–3.11
	F, Sep. 30	Molecular Compounds	4.1–4.3

	Date	Topic	Chapter
Week 6	M, Oct. 3	Covalent Bonds and Molecules	4.4–4.7
	W, Oct. 5	Molecular Structure	4.8–4.9
	F, Oct. 7	Polarity and Binary Molecular Compounds	4.10–4.11
Week 7	M, Oct. 10	Catch-up/Review Day - Midterm Exam 2 (Ch. 3–4)	
	W, Oct. 12	Balancing Chemical Reactions	5.1–5.3
	F, Oct. 14	Classes of Chemical Reactions	5.4–5.6
Week 8	M, Oct. 17	Fall Break – No Class!	
	W, Oct. 19	Redox Reactions	5.7–5.8
	F, Oct. 21	Chemical Calculations I	6.1–6.3
Week 9	M, Oct. 24	Chemical Calculations II	6.4–6.5
	W, Oct. 26	Chemical Reactions: Energy and Rates	7.1–7.3
	F, Oct. 28	Chemical Reactions: Equilibrium	7.4–7.6
Week 10	M, Oct. 31	Equilibrium Equations	7.7–7.9
	W, Nov. 2	Catch-up/Review Day - Midterm Exam 3 (Ch. 5–7)	
	F, Nov. 4	Gases and Kinetic Molecular Theory	8.1–8.3
Week 11	M, Nov. 7	Pressure and Gas Laws	8.4–8.7
	W, Nov. 9	Gas Laws	8.8–8.11
	F, Nov. 11	Liquids and Solids	8.12–8.15
Week 12	M, Nov. 14	Solutions	9.1–9.4
	W, Nov. 16	Solubility and Dilution	9.5–9.9
	F, Nov. 18	Ions in Solution: Electrolytes	9.10–9.13
Week 13	M, Nov. 21	Thanksgiving Break – No Class!	
	W, Nov. 23	Thanksgiving Break – No Class!	
	F, Nov. 25	Thanksgiving Break – No Class!	

	Date	Topic	Chapter
Week 14	M, Nov. 28	Acids and Bases	10.1–10.5
	W, Nov. 30	Acids and Bases – Calculations	10.6–10.10
	F, Dec. 2	Buffers and Titrations	10.11–10.14
Week 15	M, Dec. 5	Catch-up/Review Day - Midterm Exam 4 (Ch. 8–10)	
	W, Dec. 7	Nuclear Chemistry	11.1–11.5
	F, Dec. 9	Nuclear Chemistry and Radiation	11.6–11.11
Finals Week	T, Dec. 13	Final Exam 11:00–12:50 Bring a pencil and scantron	