

# ELEMENTARY CHEMISTRY

CHEM 1110

Fall 2021

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<b>Instructor:</b>	Matthew Rowley	<b>Office Hours:</b>	Mon, Wed, Fri 2:00 pm - 2:50 pm
<b>Telephone:</b>	(435) 586-7875		Tue, Thu, 11:00 am - 11:50 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:

- Section 02 – 12:00 pm - 12:50 pm in room 016 of the science Center (SC)
- Section 04 – 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, Sep. 8	Chemistry: The Central Science	1.1–1.2
	F, Sep. 10	Elements and the Periodic Table	1.3–1.6
Week 2	M, Sep. 13	Measuring Physical Quantities	1.7–1.9
	W, Sep. 15	Numbers and Math in Chemistry	1.10–1.12
	F, Sep. 17	Temperature, Heat, and Derived Units	1.13–1.14
Week 3	M, Sep. 20	Atoms, Elements, and Isotopes	2.1–2.3
	W, Sep. 22	Atomic Weight, Periodic Table, and Atomic Structure	2.4–2.6
	F, Sep. 24	Electron Configuration	2.7–2.9
Week 4	M, Sep. 27	<b>Review/Make-up Day</b>	
	W, Sep. 29	Ions and Ionic Bonds	3.1–3.4
	F, Oct. 1	Ionic Compounds	3.5–3.7

	Date	Topic	Chapter
Week 5	M, Oct. 4	Naming Ionic Compounds	3.8–3.11
	W, Oct. 6	Molecular Compounds	4.1–4.3
	F, Oct. 8	Covalent Bonds and Molecules	4.4–4.7
Week 6	M, Oct. 11	Molecular Structure	4.8–4.9
	W, Oct. 13	Polarity and Binary Molecular Compounds	4.10–4.11
	F, Oct. 15	<b>Review/Make-up Day</b>	
Week 7	M, Oct. 18	Balancing Chemical Reactions	5.1–5.3
	W, Oct. 20	Classes of Chemical Reactions	5.4–5.6
	F, Oct. 22	Redox Reactions	5.7–5.8
Week 8	M, Oct. 25	Chemical Calculations I	6.1–6.3
	W, Oct. 27	Chemical Calculations II	6.4–6.5
	F, Oct. 29	<b>Review/Make-up Day</b>	
Week 9	M, Nov. 1	Chemical Reactions: Energy and Rates	7.1–7.3
	W, Nov. 3	Chemical Reactions: Equilibrium	7.4–7.6
	F, Nov. 5	Equilibrium Equations	7.7–7.9
Week 10	M, Nov. 8	Gases and Kinetic Molecular Theory	8.1–8.3
	W, Nov. 10	Pressure and Gas Laws	8.4–8.7
	F, Nov. 12	Gas Laws	8.8–8.11
Week 11	M, Nov. 15	Liquids and Solids	8.12–8.15
	W, Nov. 17	Solutions	9.1–9.4
	F, Nov. 19	Solubility and Dilution	9.5–9.9
Week 12	M, Nov. 22	Ions in Solution: Electrolytes	9.10–9.13
	W, Nov. 24	<b>Thanksgiving Break – No Class!</b>	
	F, Nov. 26	<b>Thanksgiving Break – No Class!</b>	

	Date	Topic	Chapter
Week 13	M, Nov. 29	<b>Review/Make-up Day</b>	
	W, Dec. 1	Acids and Bases	10.1–10.5
	F, Dec. 3	Acids and Bases – Calculations	10.6–10.10
Week 14	M, Dec. 6	Buffers and Titrations	10.11–10.14
	W, Dec. 8	Nuclear Chemistry	11.1–11.5
	F, Dec. 10	Nuclear Chemistry and Radiation	11.6–11.11
Week 15	M, Dec. 13	<b>Review/Make-up Day</b>	
Finals Week		<b>Bring a pencil and scantron to your final</b>	
	T, Dec. 14	<b>Section 04 Final Exam 11:00 am–12:50 pm</b>	
	W, Dec. 15	<b>Section 02 Final Exam 11:00 am–12:50 pm</b>	