

Course Syllabus

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Course Description































This is the first a two-semester sequence of general chemistry for science majors, intended to introduce you to the foundations of chemistry. The material is presented in what's referred to as an **atoms first** approach, which means that we begin by talking about the parts of the atom, then how they join together to create molecules, then what kind of reactions the molecules can go through. It is a gradual building up of the information that you need to understand the next topic, hopefully told in a coherent story. We approach problems in both a qualitative and quantitative manner, so math skills (basic arithmetic, algebra, and calculator skills) are a must!

Course Objectives

Upon successful completion of this course, learners will be able to:

1. Explain atomic structure and behavior on both the microscale and macroscale.
2. Use atomic-level behavior to predict and explain macroscopic behavior.
3. Use molecular structure to predict and explain reactions.
4. Apply tools and skills in solving chemical problems.
5. Critically assess chemical problems.

Course Summary:

Date	Details	Due
Tue Aug 19, 2025	 Start Here	
	Confirmation Quiz- Requires Respondus LockDown Browser	due by 11:59pm
	 Week 1 Homework	due by 11:59pm
Fri Aug 22, 2025	 Week 1 quiz	due by 11:59pm
	(1 student)	
	 Week 1 quiz	due by 11:59pm
Fri Aug 29, 2025	 Week 2 Homework	due by 11:59pm
	 Week 2 quiz	due by 11:59pm
Fri Sep 5, 2025	 Week 3 Homework	due by 11:59pm
	 Week 3 quiz	due by 11:59pm
Wed Sep 10, 2025	 Exam 1 - Weeks 1 - 3- Requires Respondus LockDown Browser	due by 11:59pm
Fri Sep 19, 2025	 Week 4 homework	due by 11:59pm
	 Week 4 quiz	due by 11:59pm
Fri Sep 26, 2025	 Week 5 Homework	due by 11:59pm
	 Week 5 quiz	due by 11:59pm
Fri Oct 3, 2025	 Week 6 homework	due by 11:59pm
	 Week 6 quiz	due by 11:59pm
Fri Oct 10, 2025	 Week 7 Homework	due by 11:59pm
Wed Oct 15, 2025	 Exam 2 - Weeks 4 - 7- Requires Respondus LockDown Browser	due by 11:59pm
Fri Oct 24, 2025	 Week 8 Homework	due by 11:59pm
	 Week 8 quiz	due by 11:59pm
Fri Oct 31, 2025	 Week 9 Homework	due by 11:59pm
	 Week 9 quiz	due by 11:59pm
Fri Nov 7, 2025	 Week 10 Homework	due by 11:59pm
	 Week 10 quiz	due by 11:59pm
Wed Nov 12, 2025	 Exam 3 - Weeks 8 - 10- Requires Respondus LockDown Browser	due by 11:59pm
Fri Nov 14, 2025	 Week 11 Homework	due by 11:59pm
	 Week 11 Quiz	due by 11:59pm
Fri Nov 21, 2025	 Week 12 Homework	due by 11:59pm
	 Week 12 quiz	due by 11:59pm
Fri Nov 28, 2025	 Week 13 Homework	due by 11:59pm
	 Week 13 Quiz	due by 11:59pm
Wed Dec 3, 2025	 Exam 4 - Weeks 11 - 13 - Requires Respondus LockDown Browser	due by 11:59pm
Wed Dec 10, 2025	 Final Exam- Requires Respondus LockDown Browser	due by 11:59pm

August 2025						
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27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Assignments are weighted by group:

Group	Weight
Homework	12.5%
Final Exam	20%
Quizzes	12.5%
Exams	50%
Total	95%