Chemistry 2025-2026

# Instructor information

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| Instructor | Email | Phone number |
| Jenny Choate | jennyrn13@gmail.com | **Building C, 3PM-5PM, Tuesdays** |

# General information

## Description

We will explore the basic concepts and applications of chemistry. We will review the textbook material and complete as many experiments as possible.

## Expectations and goals

I expect each student to show up on time and be ready with any readings and assignments completed. I expect students to bring all necessary items for class including books, pencils, etc. I expect students to participate in classroom activities and discussions. There are 34 weeks to complete 16 chapters. This will give us a two-week cushion if needed while covering material and will hopefully allow for review and further experimentation at the end. We will aim to cover a full chapter every two weeks. We will attempt to divide the chapters in half with the student reading half of each chapter before class. We will be reviewing the material and completing any experiments we have time to cover. Test will be left to the parents to administer and grade.

## Required materials

In the past Apologia has been used for this course. To be able to easily continue with Dr. Jay L. Wile’s material, it was necessary to switch textbooks. These can be purchased from Berean Builders’ website, ChristianBooks, Amazon, and Rainbow Resource Center. It can also be found used on ebay.

* Discovering Design with Chemistry, by Dr. Jay L Wile, Published by Berean Builders
* Answer Key and Test for DDC
* Composition notebook or something similar for a lab notebook
* Calculator
* A one-time $30 lab fee is due at the beginning of the year

## Optional materials

Discovering Design with Chemistry Audio Book on USB Flash Drive on USB Flash Drive

# Course schedule

| Week | Topic |
| --- | --- |
| Week 1 | Chapter 1: Measuring Up |
| Week 2 | Chapter 1: Measuring Up |
| Week 3 | Chapter 2: What’s the Matter |
| Week 4 | Chapter 2: What’s the Matter |
| Week 5 | Chapter 3: Making Sense of Atoms and Elements |
| Week 6 | Chapter 3: Making Sense of Atoms and Elements |
| Week 7 | Chapter 4: The Modern View of Atoms and Their Chemistry |
| Week 8 | Chapter 4: The Modern View of Atoms and Their Chemistry |
| Week 9 | Chapter 5: Covalent Compounds and Their Molecular Geometry |
| Week 10 | Chapter 5: Covalent Compounds and Their Molecular Geometry |
| Week 11 | Chapter 6: Physical and Chemical Change |
| Week 12 | Chapter 6: Physical and Chemical Change |
| Week 13 | Chapter 7: Stoichiometry |
| Week 14 | Chapter 7: Stoichiometry |
| Week 15 | Chapter 8: Still More on Stoichiometry |
| Week 16 | Chapter 8: Still More on Stoichiometry |
| Week 17 | Chapter 9: Chemists Have Solutions |
| Week 18 | Chapter 9: Chemists Have Solutions |
| Week 19 | Chapter 10: It’s a Gas! |
| Week 20 | Chapter 10: It’s a Gas! |
| Week 21 | Chapter 11: Some Pretty Basic (and Acidic) Chemicals |
| Week 22 | Chapter 11: Some Pretty Basic (and Acidic) Chemicals |
| Week 23 | Chapter 12: Reduction and Oxidation |
| Week 24 | Chapter 12: Reduction and Oxidation |
| Week 25 | Chapter 13: The Heat is On |
| Week 26 | Chapter 13: The Heat is On |
| Week 27 | Chapter 14: Thermodynamics |
| Week 28 | Chapter 14: Thermodynamics |
| Week 29 | Chapter 15: Kinetics |
| Week 30 | Chapter 15: Kinetics |
| Week 31 | Chapter 16: Chemical Equilibrium |
| Week 32 | Chapter 16: Chemical Equilibrium |
| Week 33 | Catch up/Review |
| Week 34 | Catch up/Review |