

Welcome to Open Chemistry Online – Chem 1

Thank you for choosing Open Chemistry Online for your pursuit of chemistry knowledge! My name is Dr. Alex Saltzman and I look forward to walking you through chemistry's unique view of the world.

The course is organized into the following modules, following the corresponding chapters in the [OpenStax Chemistry 2e](#) textbook:

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|------------|------------------------------|---|
| Module 0: | Course Introduction | |
| Module 1: | Units and Conversions | Ch. 1 (Especially 1.4-1.6) |
| Module 2: | Atomic Discovery | Ch. 2.1-2.3 (Especially 2.3) |
| Module 3: | Ions and Molecules | Ch. 2.4-2.6 (Especially 2.6) |
| Module 4: | Balancing Chemical Reactions | Ch. 3.1, 4.1, 4.3 (Especially 3.1) |
| Module 5: | Net Ionic Reactions | Ch. 4.2, 4.4 (Especially 4.2) |
| Module 6: | Gases | Ch. 9.1-9.2 |
| Module 7: | Gas Mixtures | Ch. 9.3 |
| Module 8: | Thermochemistry | Ch. 5.1-5.3 |
| Module 9: | Lewis Structures | Ch. 7.1-7.3 (Especially 7.3) |
| Module 10: | Molecular Geometry | Ch. 7.6 |
| Module 11: | Intermolecular Forces | Ch. 10.1 |

The modules within this document should stand well enough alone, but if you are looking to use this resource as comprehensively as possible, here are things to consider for getting the most out of each subject.

- 1) These modules do not necessarily make up a comprehensive Chem 1 course! The intention of this resource is to complement an existing class, provide a refresher for a student, or structure a self-guided program.
- 2) Each module contains an "introduction" file, which holds learning objectives and suggested readings. Begin there if you are looking for a more comprehensive experience. This file also contains captions and attribution information for all figures.
- 3) After completing each video, complete the corresponding 10-question quiz without use of the key, then check your work. If you are getting 8-9 correct, you are well on your way! Consider viewing the video again and retaking the quiz for 100%.

Remember, chemistry is a subject of scientific inquiry – continue to ask questions, find answers in the videos, text, and further literature, and discuss the subject with your peers and experts – and you will find success!



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