



# General Chemistry

Full Year: 26 Labs

Version 3

## Introduction to Science

- Lab 1: Introduction to Science
- Lab 2: General Chemistry Lab Safety
- Lab 3: Chemical Nomenclature

## Fundamentals

- Lab 4: Compound Formulas
- Lab 5: Qualitative Analysis of Reactions
- Lab 6: Electron Configuration
- Lab 7: Chemical Bonding
- Lab 8: Gas Laws
- Lab 9: Enthalpy and Specific Heat
- Lab 10: Acid-Base Titrations
- Lab 11: Gravimetric Analysis
- Lab 12: Molar Mass and Freezing Point Depression
- Lab 13: Molar Volume of Gases
- Lab 14: Molar Mass and Vapor Density

## Advanced

- Lab 15: Nuclear Chemistry
- Lab 16: Reaction Rates
- Lab 17: Equilibrium Constants
- Lab 18: Preparation of Buffer Solutions
- Lab 19: Standardization of a Solution
- Lab 20: Titration Indicators





# General Chemistry

- Lab 21: Oxidation-Reduction Reactions
- Lab 22: Separation by Chromatography
- Lab 23: Electrochemical Series
- Lab 24: Electrochemical Cells
- Lab 25: Organic Compounds
- Lab 26: Coordination Compounds and Isomers

Appendix: Good Lab Techniques