This textbook is intended for the one-semester GOB course. Although a two-semester GOB sequence is available at many colleges and universities, one-semester GOB offerings are increasing in popularity. This textbook is divided into approximately one-half general chemistry topics, one-fourth organic chemistry topics, and one-fourth biochemistry topics.

- Front Matter
- 1: Chemistry, Matter, and Measurement
- 2: Elements, Atoms, and the Periodic Table
- 3: Ionic Bonding and Simple Ionic Compounds
• 4: Covalent Bonding and Simple Molecular Compounds

• 5: Introduction to Chemical Reactions

• 6: Quantities in Chemical Reactions

• 7: Energy and Chemical Processes
8: Solids, Liquids, and Gases

9: Solutions

10: Acids and Bases

11: Nuclear Chemistry
12: Organic Chemistry - Alkanes and Halogenated Hydrocarbons

13: Unsaturated and Aromatic Hydrocarbons

14: Organic Compounds of Oxygen

15: Organic Acids and Bases and Some of Their Derivatives
16: Carbohydrates

17: Lipids

18: Amino Acids, Proteins, and Enzymes

19: Nucleic Acids
20: Energy Metabolism

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