

## CHAPTER OVERVIEW

### 1: Introduction to Organic Structure and Bonding I

In this chapter, you will be introduced to some of the most fundamental principles of organic chemistry. With the concepts we learn about, we can begin to understand how carbon and a very small number of other elements in the periodic table can combine in predictable ways to produce a virtually limitless chemical repertoire. As you read through, you will recognize that the chapter contains a lot of review of topics you have probably learned already in an introductory chemistry course, but there will likely also be a few concepts that are new to you, as well as some topics which are already familiar to you but covered at a greater depth and with more of an emphasis on biologically relevant organic compounds.

[1.1: Prelude to Atoms, Electron Configurations, and Lewis Structures](#)

[1.2: Drawing Organic Structures](#)

[1.3: Functional groups and organic nomenclature](#)

[1.4: Structures of some important biomolecules](#)

[1.4.1: Introduction to Amino Acids and Proteins](#)

[1.4.2: Introduction to carbohydrate structure](#)

[1.4.3: Introduction to Lipid Structure](#)

[1.4.4: Introduction to nucleic acid \(DNA and RNA\) structure](#)

[1.5: Solutions to Chapter 1 Exercises](#)

[1.E: Problems for Chapter 1](#)

[1.1: Solutions to selected Chapter 1 problems](#)

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