Book: Cells - Molecules and Mechanisms (Wong)

This textbook was written for collegiate Cell and Molecular Biology courses and may be appropriate at both an introductory level and also as a resource for more advanced courses.

- Front Matter

- 1: Anatomy of a Cell - A Very Brief Overview
2: Basic Cell Chemistry - Chemical Compounds & their Interactions

3: Bioenergetics - Thermodynamics & Enzymes

4: Membranes - Structure, Properties & Function

5: Metabolism I – Catabolic Reactions
6: Metabolism II – Anabolic Reactions

- 7: DNA
- 8: Transcription
- 9: Gene Regulation
• 10: Translation

• 11: Protein Modification and Trafficking

• 12: Cytoskeleton

• 13: Extracellular Matrix and Cell Adhesion
14: Signal Transduction

15: Cell Cycle

16: Viruses, Cancer, & the Immune System

Back Matter

Thumbnail: A diagram of a typical prokaryotic cell. Image used with permission (Public Domain; Mariana Ruiz Villarreal, LadyofHats).