**CHAPTER 12 STUDY OUTLINE**

**DNA**

12.2 The Structure of DNA (pg. 344 – 348)

1. The Components of DNA
	1. Nucleic Acids and Nucleotides
	2. Nitrogenous Bases and Covalent Bonds
2. Solving the Structure of DNA
	1. Chargaff’s Rule
	2. Franklin’s X-Rays
	3. The Work of Watson and Crick
3. The Double-Helix Model
	1. Antiparallel Strands
	2. Hydrogen Bonding
	3. Base Pairing

12.3 DNA Replication (pg. 350-353)

1. Copying the Code
	1. The Replication Process
	2. The Role of Enzymes
	3. Telomeres
2. Replication in Living Cells
	1. Prokaryotic DNA Replication
	2. Eukaryotic DNA Replication