

Recommended Readings – Campbell Biology, 10e

The Central Dogma (Genes to Proteins)

Chapter 5 pp. 75-89 (Proteins and Nucleic Acids)

Chapter 17 pp. 328-330, 333-344, Figure 17.24 (From Gene to Protein)

Chapter 18 pp. 360-373 (The Control of Gene Expression)

Molecular Biology

Chapter 20 pp. 408-419 (DNA Technology). Note: We will not cover all of this material in detail!

The Cell

Chapter 6 pp. 93-121 (An Overview of the Cell)

Chapter 7 Figure 7.3 (Membrane Structure and Function)

Chapter 11 pp. 210-229 (Cell Communication)

[Chapter 43 pp. 953 (Antibody Structure)] (useful, but not necessary, for understanding immunostaining)

Mitosis & Meiosis

Chapter 12 pp. 232-240, 242-246 (Mitosis & Cytokinesis)

Chapter 13 pp. 254-256, 257-262 (Meiosis and Sexual Life Cycles)

Chapter 46 pp. 1013-1028 (Spermatogenesis, Oogenesis and Hormones; we will review some of this)

Overview of Development [redundant with reading from Gilbert]

Chapter 18, pp. 376-383; Chapter 21, pp. 457-458 (Genetics of Development)

Chapter 32, p. 668-669; Ch. 46 pp. 1028-1034; Ch. 47 pp. 1037-1058 (Animal Development)

Recommended Readings – Campbell Biology, 9e

The Central Dogma (Genes to Proteins)

Chapter 5 pp. 77-89 (Proteins and Nucleic Acids)

Chapter 17 pp. 325-330, 331-336, Figure 17.25 (From Gene to Protein)

Chapter 18 pp. 356-366 (The Control of Gene Expression)

Molecular Biology

Chapter 20 pp. 396-411 (DNA Technology). Note: We will not cover all of this material in detail!

The Cell

Chapter 6 pp. 94-122 (An Overview of the Cell)

Chapter 7 Figure 7.5 (Membrane Structure and Function)

Chapter 11 pp. 206-225 (Cell Communication)

[Chapter 43 pp. 935-936 (Antibody Structure)] (useful, but not necessary, for understanding immunostaining)

Mitosis & Meiosis

Chapter 12 pp. 228-236, 238-242 (Mitosis & Cytokinesis)

Chapter 13 pp. 248-260 (Meiosis and Sexual Life Cycles)

Chapter 46 pp. 1002-1015 (Spermatogenesis, Oogenesis and Hormones; we will review some of this)

Overview of Development [redundant with reading from Gilbert]

Chapter 20, pp. 412-416; Chapter 21, pp. 445-447 (Genetics of Development)

Chapter 32, p. 654-655; Ch. 47 pp. 1021-1042 (Animal Development)