Chapter 10 – Learning Objectives
• What is the function of the endocrine system?
• What is a hormone? What are two broad classes of hormones?
• Explain the relationship between hormones and receptors.
• What is negative feedback?
• Describe how the parathyroid and thyroid glands regulate calcium levels.
• Describe how the pituitary gland maintains homeostasis.
• Describe how the pancreas maintains homeostasis.
• What is diabetes, and what are the distinctions between Type I and Type II diabetes?
• Describe any endocrine disorders that were discussed in class: what are they, what causes them, and what is the significance of each?

Pay special attention to Figures 2, 6, 11, 13, 18

Chapter 17 – Learning Objectives
• What is a gonad?
• What is the origin and significance of testosterone?
• Describe the structures of the male reproductive system and their functions.
• What is the composition of semen?
• Describe the structures of the female reproductive system and their functions.
• What is the menstrual cycle? The ovarian cycle? The uterine cycle?
• Explain the significance of FSH, LH, estrogen, and progesterone in the female reproductive system.
• Describe any disorders that were discussed in class: what are they, what causes them, and what is the significance of each?

Pay special attention to Figures 1, 3, 6, 9; Tables 1, 2, 3, 4, 5

Chapter 18 – Learning Objectives
• Describe the process of fertilization.
• Where does fertilization usually occur?
• What are defining features of the pre-embryo, embryo, and fetus?
• What is a blastocyst? Where does implantation usually occur?
• Describe any reproductive disorders that were discussed in class: what are they, what causes them, and what is the significance of each?

Pay special attention to Figures 2, 3, 6, 9; Table 1
Chapter 19 – Learning Objectives
• What is the significance of DNA?
• What are genes? What are chromosomes?
• Describe differences between duplicated and unduplicated chromosomes.
• Contrast mitosis and meiosis.
• Describe any genetic disorders that were discussed in class: what are they, what causes them, and what is the significance of each?

Pay special attention to Figures 1, 3, 4, 5, 7, 8, 10

Chapter 20 – Learning Objectives
• Distinguish the terms genotype and phenotype.
• How is the Punnett square used to predict inheritance?
• What is the difference between dominant and recessive traits?
• Explain the inheritance of X-linked traits.

Pay special attention to Figures 1, 3, 4, 5, Table 1