Chapter 15 – Learning Objectives
  • What are the components of the digestive system?
  • What is the major function of each organ?
  • What are the accessory organs, and their functions?
  • How does digestion take place at the molecular level?
  • How are nutrients absorbed into the digestive system?
  • Why is the liver so important?
  • Describe any digestive disorders that were discussed in class: what are they, what causes them, and what is the significance of each?
  • What are macronutrients and micronutrients? What is the general composition of each in a healthy diet?
  • Describe the significance of any nutritional issues that were discussed in class.

Pay special attention to Figures 1, 2, 6, 7, 8, 10, 11, 13; Tables 1, 2, 3

Chapter 11 – Learning Objectives
  • What are the functions of blood?
  • What are components of blood?
  • What basic function of erythrocytes, leukocytes, and platelets?
  • How is blood cell production regulated?
  • What is the structure and significance of hemoglobin?
  • What is the molecular basis of the ABO blood groups?
  • What is the Rh factor, and how might it complicate a pregnancy?

Pay special attention to Figures 1, 2, 4, 5, 6, 7; Tables 1, 2

Chapter 12 – Learning Objectives
  • What are the components of the cardiovascular system?
  • Describe each type of blood vessel in terms of size, composition, and direction of blood flow.
  • Contrast how is blood moved through the arterial and venous systems.
  • What is blood pressure, and how is it measured? What are typical blood pressure readings?
  • Describe the basic structure of the heart, including chambers, valves, and blood flow.
  • What is the purpose heart valves?
  • How is the heartbeat controlled?
  • Describe any cardiovascular 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, 2, 3, 6, 7, 8, 9, 12, 17
Chapter 14 – Learning Objectives

• What is the function of the respiratory system?
• What are components of the respiratory system?
• What are four types of respiration? (see p. 269)
• Describe the mechanics of breathing, including the anatomical structures involved and pressure changes that drive the movement of air.
• Describe any respiratory 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, 2, 3, 8, 9, 10, 11; Table 1