Related Information: What the Student Should Know

Application: What the Student Should Be Able to Do

Module 1: Organization of the Human Body

- 1. The terms *anatomy* and *physiology*
- 2. General regions of the body
- 3. Major body structures in order of increasing complexity
- 4. Functions of the major organ systems
- 5. Major organs and structures in each of the major organ systems
- 6. Primary physiological characteristics of the body that are affected by the hormones of the endocrine system

- Complete the crossword puzzle of terms (Objectives 1–6)
- 8. Construct a model of an organ of the human body
- 9. Analyze a cosmetology scenario
- 10. Complete Module 1 review

Module 2: Biochemistry and Microbiology

- 1. The terms biochemistry and microbiology
- 2. The role of chemistry in human health
- 3. The term homeostasis
- 4. The terms *element* and *atom*
- 5. Parts of an atom
- 6. The term molecule
- 7. The terms *compound*, *mixture*, and *solution*
- 8. Primary role of each of the principle elements and compounds in the human body
- 9. Role of electrolytes in human health
- 10. Role of acids and bases in human health
- 11. Cell theory
- 12. Principal types of protoplasm
- 13. Major parts of a cell

Related Information: What the Student Should Know

Application: What the Student Should Be Able to Do

Module 2: Biochemistry and Microbiology (continued)

- 14. Functions of the major parts of a cell
- 15. Major parts of a cell nucleus
- 16. Specialized structures in cells
- 17. Functions of the specialized structures in cells
- 18. Functions of a cell
- 19. Classes of microorganisms
- 20. Class of microorganisms as classified by their shape
- 21. Characteristics of bacteria
- 22. Characteristics of viruses
- 23. Characteristics of fungi
- 24. Common parasites that afflict humans

Module 3: Infection, Immunology, and Sanitation

- 1. The term infection
- 2. The effects of infection on a human host
- Methods used to reduce the spread of infection
- 4. Types of infections and diseases
- Role of the body's portals of entry and portals of exit in the spread of infectious diseases
- 6. Functions of the body's physical barriers to infection
- 7. Types of immunity
- 8. Methods used to control the spread of microorganisms
- 9. Reasons certain industries must control the growth of microorganism
- 10. Types of antimicrobial-control methods

- 25. Complete the crossword puzzle of terms (Objectives 1–10)
- Complete the crossword puzzle of terms (Objectives 11–18)
- 27. Construct a model of a typical cell
- Complete the crossword puzzle of terms (Objectives 19–24)
- 29. Develop a presentation on bacteria, viruses, fungi, or parasites
- 30. Analyze cosmetology scenarios
- 31. Complete Module 2 review

Related Information: What the Student Should Know

Application: What the Student Should Be Able to Do

Module 3: Infection, Immunology, and Sanitation (continued)

- 11. Factors that contribute to the spread of nosocomial infections
- 12. Organisms that cause common nosocomial infections
- Complete the crossword puzzle of terms (Objectives 1–4)
- 14. Complete the crossword puzzle of terms (Objectives 5–12)
- 15. Conduct a sanitation inspection of the salon/laboratory and classroom
- 16. Analyze cosmetology scenarios
- 17. Complete Module 3 review

Module 4: Tissues

- 1. The term *tissue*
- 2. Basic types of tissue and their descriptions
- 3. Functions of the basic types of tissue
- 4. Types of connective tissue and their functions
- 5. Basic types of nerve tissue
- 6. Functions of the basic parts of a neuron
- 7 How neurons function in the nervous system
- 8. Factors that determine muscle-tissue classifications
- 9. The term organ
- 10. How organ systems function

Module 5: Integumentary System

- 1. The term integument
- 2. Major structures that make up the integument
- 3. Characteristics of the skin
- 4. Functions of the skin
- 5. Major structures of the skin

- Complete the crossword puzzle of terms (Objectives 1–10)
- 12. Develop a presentation on basic tissue of the human body
- 13. Complete Module 4 review

Related Information: What the Student Should Know

Application: What the Student Should Be Able to Do

Module 5: Integumentary System (continued)

- 6. Layers of the epidermis
- 7. Layers of the dermis
- 8. The term auxiliary appendage
- 9. Characteristics of hair
- 10. Characteristics of nails
- 11. Functions of the glands in the skin
- 12. Types of nerve endings found in the skin
- 13. Identification of the major structures of the integument
- 14. Common disorders and diseases of the scalp and hair
- 15. Common disorders and diseases of the sebaceous glands
- 16. Common disorders and diseases of the skin
- 17. Common disorders and diseases of the hand and nails

Module 6: Skeletal System

- 1. The term skeletal system
- 2. Functions of the skeletal system
- 3. Types of bones as classified by their location
- 4. The long bones of the skeleton
- 5. Major divisions of the human skeleton
- 6. Major bones of the anterior and posterior appendicular skeleton
- 7. Descriptions of the major bones of the cranium and face
- 8. Identification of the major bones of the cranium and face
- 9. Characteristics of the hyoid bone

- Complete the crossword puzzle of terms (Objectives 1–7)
- Complete the crossword puzzle of terms (Objectives 8–14)
- 20. Complete the crossword puzzle of terms (Objectives 15 and 16)
- 21. Complete the crossword puzzle of terms (Objective 17)
- 22. Create a graphic organizer
- 23. Review the structures, layers, and glands of the skin
- 24. Analyze cosmetology scenarios
- 25. Complete Module 5 review

Related Information: What the Student Should Know

Application: What the Student Should Be Able to Do

Module 6: Skeletal System (continued)

- 10. Descriptions of the regions and the major bones and structures of the vertebral column
- 11. Identification of the regions and the major bones and structures of the vertebral column
- 12. Characteristics of the ribs and sternum
- 13. Major bones and structures of the ribs and sternum

- 14. Complete the crossword puzzle of terms (Objectives 1–6)
- 15. Complete the crossword puzzle of terms (Objectives 7–13)
- 16. Locate and identify bones of the cranium
- 17. Locate and identify bones of the face
- 18. Analyze cosmetology scenarios
- 19. Complete Module 6 review

Module 7: Muscular System

- 1. The term *muscular system*
- 2. Functions of the muscular system
- 3. Major classifications of muscle tissue
- 4. Major structures of skeletal muscles and their definitions
- 5. Identification of the major structures of skeletal muscles
- 6. Characteristics of the bone/muscle attachments of skeletal muscles
- 7. How skeletal muscles function
- 8. Terms that describe the functional characteristics of muscle tissue
- 9. Types of muscles as classified by their actions
- 10. Functions of the major muscle groups
- 11. Functions of the major muscles of the head, face, and neck
- 12. Identification of the major muscles of the head, face, and neck
- 13. Functions of the major muscles of the torso
- 14. Identification of the major muscles of the torso

Related Information: What the Student Should Know

Application: What the Student Should Be Able to Do

Module 7: Muscular System (continued)

- 15. Functions of the major muscles of the arm
- 16. Identification of the major muscles of the arm
- 17. Functions of the major muscles of the legs
- 18. Identification of the major muscles of the legs
- Complete the crossword puzzle of terms (Objectives 1–8)
- 20. Complete the crossword puzzle of terms (Objective 9)
- 21. Complete the crossword puzzle of terms (Objectives 10–12)
- 22. Locate and identify major muscles of the head, face, and neck
- Complete the crossword puzzle of terms (Objectives 13–16)
- 24. Complete the crossword puzzle of terms (Objectives 17–18)
- 25. Analyze cosmetology scenarios
- 26. Complete Module 7 review

Module 8: Nervous System

- 1. The term nervous system
- 2. Functions of the nervous system
- 3. Major subsystems of the nervous system
- 4. Major subsystems of the peripheral nervous system
- 5. Major subsystems of the autonomic nervous system
- 6. The term *nerve tissue*
- 7. Basic types of nerve tissue
- 8. Functions of the major structures of a neuron
- 9. Identification of the major structures of a neuron
- 10. Types of neurons
- 11. Description of a reflex arc
- 12. Major structures within the spinal canal

Related Information: What the Student Should Know

Application: What the Student Should Be Able to Do

Module 8: Nervous System (continued)

- 13. Structure and function of the spinal cord
- 14. Functions of the nerves of the head, face, and neck
- 15. Complete the crossword puzzle of terms (Objectives 1–5)
- 16. Complete the crossword puzzle of terms (Objectives 6–13)
- 17. Complete the crossword puzzle of terms (Objective 14)
- 18. Participate in a "Face Off"
- 19. Analyze cosmetology scenarios
- 20. Complete Module 8 review

Module 9: Circulatory System

- 1. The term circulatory system
- 2. Functions of the circulatory system
- 3. Subsystems of the circulatory system
- 4. Major organs of the circulatory system
- 5. Major components of blood
- 6. The normal physical characteristics of blood.
- 7. Major components of blood plasma
- 8. The term cardiovascular system
- 9. Size and position of the heart
- 10. Major structures of the heart
- 11. Characteristics of the chambers of the heart
- 12. Characteristics of the major veins of the heart
- 13. Characteristics of the major arteries of the heart
- 14. Characteristics of the major valves of the heart
- 15. Identification of the major structures of the heart

Related Information: What the Student Should Know

Application: What the Student Should Be Able to Do

Module 9: Circulatory System (continued)

- 16. The term vascular system
- 17. Major structures of the vascular system
- 18. Major arteries that extend from the aortic arch
- 19. Identification of the major arteries of the systemic circulation system
- 20. Characteristics of capillaries
- 21. Characteristics of veins
- 22. The term pulse point
- 23. The term blood pressure
- 24. The term *lymphatic system*

Module 10: Respiratory, Digestive, and Urinary Systems

- 1. The term *respiratory system*
- 2. Characteristics of pulmonary ventilation
- 3. Major organs and structures of the respiratory system
- 4. The term *digestive system*
- 5. Functions of the digestive system
- 6. The term accessory glands
- 7. Major organs and structures of the digestive system
- 8. Functions of the liver
- 9. The term urinary system
- 10. Functions of the urinary system
- 11. Major organs and structures of the urinary system

- 25. Complete the crossword puzzle of terms (Objectives 1–7)
- Complete the crossword puzzle of terms (Objectives 8–24)
- 27. Construct a model of the human heart
- 28. Research the route of a blood cell through the circulatory system
- 29. Analyze cosmetology scenarios
- 30. Complete Module 9 review

- 12. Complete the crossword puzzle of terms (Objectives 1–11)
- 13. Participate in a "Face Off"
- 14. Analyze cosmetology scenarios
- 15. Complete Module 10 review