

(APR VOLUME ONE—SKELETAL AND MUSCULAR SYSTEMS)

**Chapter 1: Introduction: Becoming Familiar with *Anatomy and Physiology Revealed***

Overview: Getting started

Check Point: Becoming Familiar with *Anatomy and Physiology Revealed*

The Dissection Section

*Heads Up!*

Check Point: The Dissection Section

The Animation Section

Check Point: The Animation Section

The Imaging Section

Check Point: The Imaging Section

The Self-Test Section

*Heads Up!*

Check Point: The Self-Test Section

In Review

What Have I Learned?

**Chapter 2: The Skeletal System**

Overview: Skeletal System

Table 2.1: Summary of the Bones in an Adult Skeletal System

Check Point: Skeletal Overview

Naming Bone Processes and Other Landmarks

Table 2.2: Common Bony Landmarks

Check Point: Naming Bone Processes and Other Landmarks

**Exercise 2.1: Bony Landmarks**

Check Point: A Few Notes about Naming Processes

Animation: The Skull

Check Point: The Skull

*Heads Up!*

Head and Neck

Overview

*Heads Up!*

**Exercise 2.2: Locating Structures of the Head and Neck**

*Heads Up!*

Anterior View

**Exercise 2.3: Anterior View of Skull**

Check Point: Anterior View of the Skull

Inferior View

**Exercise 2.4: Inferior View of the Skull**

Check Point: Inferior View of the Skull

Lateral View

**Exercise 2.5: Lateral View of the Skull**

Check Point: Lateral View of the Skull

Mid-Sagittal View

**Exercise 2.6: Mid-Sagittal View of the Skull**

Check Point: Mid-Sagittal View of the Skull

Posterior View

**Exercise 2.7: Posterior View of Skull and Vertebral Column**

Check Point: Posterior View of Skull and Vertebral Column

**Exercise 2.8: Imaging**

In Review

Self Test

What Have I Learned?

Trunk, Shoulder Girdle, and Upper Limb

**Exercise 2.9: Thorax, Anterior View**

Check Point: Thorax, Anterior View

**Exercise 2.10: Abdomen, Anterior View**

Check Point: Abdomen, Anterior View

**Exercise 2.11: Pelvis, Superior View**

Check Point: Pelvis, Superior View

**Exercise 2.12: Back, Posterior View**

Check Point: Back, Posterior View

**Exercise 2.13: Shoulder and Arm, Anterior View**

**Exercise 2.14: Shoulder and Arm, Posterior View**

Check Point: Shoulder and Arm

**Exercise 2.15: Forearm and Hand, Anterior View**

**Exercise 2.16: Forearm and Hand, Posterior View**

Check Point: Forearm and Hand

**Exercise 2.17: Wrist and Hand, Anterior View**

**Exercise 2.18: Wrist and Hand, Posterior View**

Check Point: Wrist and Hand

In Review

What Have I Learned?

Pelvic Girdle and Lower Limb

**Exercise 2.19: Hip and Thigh, Anterior View**

**Exercise 2.20: Hip and Thigh, Posterior View**

Check Point: Hip and Thigh

**Exercise 2.21: Leg and Foot, Anterior View**

**Exercise 2.22: Leg and Foot, Posterior View**

Check Point: Leg and Foot

**Exercise 2.23: Foot, Plantar View**

Check Point: Foot, Plantar View

In Review

What Have I Learned?

## **Chapter 3: The Muscular System**

### Overview: Muscular System

Animation: Skeletal Muscle

### Head and Neck

**Exercise 3.1: Head and Neck, Anterior View**

Check Point: Head and Neck, Anterior View

Animation: Muscle Actions of the Frontalis, Levator Labii Superioris  
Alaeque Nasi, Orbicularis Oculi, Orbicularis Oris, and  
Sternocleidomastoid

**Exercise 3.2: Head and Neck, Lateral View**

Check Point: Head and Neck, Lateral View

Animation: Muscle Actions of the Frontalis, Levator Labii Superioris  
Alaeque Nasi, Orbicularis Oculi, Orbicularis Oris, and  
Sternocleidomastoid

**Exercise 3.3: Head and Neck, Mid-Sagittal View**

Check Point: Head and Neck, Mid-Sagittal View

**Exercise 3.4: Head and Neck, Posterior View**

Check Point: Head and Neck, Posterior View

In Review

Self Test

What Have I Learned?

### Trunk, Shoulder Girdle, and Upper Limb

**Exercise 3.5: Thorax, Anterior View**

Check Point: Thorax, Anterior View

Animation: Muscle Actions of the Deltoid, Rectus Abdominis, and  
Sternocleidomastoid

In Review

What Have I Learned?

**Exercise 3.6: Abdomen, Anterior View**

Check Point: Abdomen, Anterior View

Animation: Muscle Action of the Rectus Abdominis

In Review

What Have I Learned?

**Exercise 3.7: Pelvis, Superior View**

In Review

What Have I Learned?

**Exercise 3.8: Back, Posterior View**

Check Point: Back, Posterior View

Animation: Muscle Action of the Rectus Abdominis

**Exercise 3.9: Shoulder and Arm, Anterior View**

Check Point: Shoulder and Arm, Anterior View

Animation: Muscle Actions of the Biceps Brachii and Deltoid

**Exercise 3.10: Shoulder and Arm, Posterior View**

Check Point: Shoulder and Arm, Posterior View

**Exercise 3.11: Forearm and Hand, Anterior View**

Check Point: Forearm and Hand, Anterior View

**Exercise 3.12: Forearm and Hand, Posterior View**

Check Point: Forearm and Hand, Posterior View

**Exercise 3.13: Wrist and Hand, Anterior View**

Check Point: Wrist and Hand, Anterior View

**Exercise 3.14: Wrist and Hand, Posterior View**

Check Point: Wrist and Hand, Posterior View

Pelvic Girdle and Lower Limb

**Exercise 3.15: Hip and Thigh, Anterior View**

Check Point: Hip and Thigh, Anterior View

Animation: Muscle Actions of the Quadriceps Femoris

**Exercise 3.16: Hip and Thigh, Posterior View**

Check Point: Hip and Thigh, Posterior View

**Exercise 3.17: Leg and Foot, Anterior View**

Check Point: Leg and Foot, Anterior View

**Exercise 3.18: Leg and Foot, Posterior View**

Check Point: Leg and Foot, Posterior View

Animation: Muscle Action of the Gastrocnemius

**Exercise 3.19: Foot, Plantar View**

Check Point: Foot, Plantar View

(APR VOLUME TWO—NERVOUS SYSTEM)

**Chapter 4: The Nervous System**

Overview: The Nervous System

*Heads Up!*

Animation: Divisions of the Brain

*Heads Up!*

The Brain

**Exercise 4.1: Brain, Coronal View**

*Heads Up!*

*Heads Up!*

Check Point: Brain, Coronal View

Animation: CSF Flow

**Exercise 4.2: Brain, Lateral View**

Check Point: Brain, Lateral View

Animation: Meninges

Animation: Dural Sinus Blood Flow

**Exercise 4.3: Brain, Superior View**

Check Point: Brain, Superior View

**Exercise 4.4: Brain, Inferior View**

Check Point: Brain, Inferior View

**Exercise 4.5: Brain, Inferior View (close-up)**

Check Point: Brain, Inferior View (close-up)

**Exercise 4.6: Imaging**

In Review

What Have I Learned?

Cranial Nerves

**Exercise 4.7: Cranial Nerves, Inferior Brain (CNI-XII)**

**Exercise 4.8: Cranial Nerves, CN I Olfactory**

Check Point: Cranial Nerves, CN I Olfactory

**Exercise 4.9: Cranial Nerves, CN II Optic**

Animation: Vision

**Exercise 4.10: Cranial Nerves, CN III Oculomotor**

**Exercise 4.11: Cranial Nerves, CN IV Trochlear**

**Exercise 4.12: Cranial Nerves, CN V Trigeminal**

**Exercise 4.13: Cranial Nerves, CN VI Abducens**

**Exercise 4.14: Cranial Nerves, CN VII Facial**

**Exercise 4.15: Cranial Nerves, CN VIII Vestibulocochlear**

Animation: Hearing

**Exercise 4.16: Cranial Nerves, CN IX Glossopharyngeal**

**Exercise 4.17: Cranial Nerves, CN X Vagus**

**Exercise 4.18: Cranial Nerves, CN XI Accessory**

**Exercise 4.19: Cranial Nerves, CN XII Hypoglossal**

Animation: Action Potentials and Synapses

In Review

What Have I Learned?

Spinal Cord

Overview

**Exercise 4.20: Spinal Cord, Overview**

*Heads Up!*

Check Point: Spinal Cord

**Exercise 4.21: Spinal Cord, Typical Spinal Nerve**

Check Point: Typical Spinal Nerve

Animation: Typical Spinal Nerve

Cervical Region

**Exercise 4.22: Spinal Cord, Cervical Region**

Check Point: Spinal Cord, Cervical Region

Thoracic Region

**Exercise 4.23: Spinal Cord, Thoracic Region**

Lumbar Region

**Exercise 4.24: Spinal Cord, Lumbar Region**

Check Point: Spinal Cord, Lumbar Region

In Review

What Have I Learned?

Peripheral Nerves

**Exercise 4.25: Peripheral Nerves, Cervical Plexus**

Check Point: Peripheral Nerves, Cervical Plexus

**Exercise 4.26: Peripheral Nerves, Brachial Plexus**

Check Point: Peripheral Nerves, Brachial Plexus

**Exercise 4.27: Peripheral Nerves, Upper Limb, Anterior View**

Check Point: Peripheral Nerves, Upper Limb, Anterior View

**Exercise 4.28: Peripheral Nerves, Upper Limb, Posterior View**

Check Point: Peripheral Nerves, Upper Limb, Posterior View

**Exercise 4.29: Peripheral Nerves, Trunk**

Check Point: Peripheral Nerves, Trunk

**Exercise 4.30: Peripheral Nerves, Lumbosacral Plexus**

Check Point: Peripheral Nerves, Lumbosacral Plexus

**Exercise 4.31: Peripheral Nerves, Lower Limb, Anterior View**

Check Point: Peripheral Nerves, Lower Limb, Anterior View

**Exercise 4.32: Peripheral Nerves, Lower Limb, Posterior View**

Check Point: Peripheral Nerves, Lower Limb, Posterior View

Autonomic Nervous System

**Exercise 4.33: Sympathetic (ANS), Overview**

Check Point: Sympathetic (ANS), Overview

**Exercise 4.34: Sympathetic (ANS), Thoracic Region**

Check Point: Sympathetic (ANS), Thoracic Region

**Exercise 4.35: Parasympathetic (ANS), Overview**

Check Point: Parasympathetic (ANS), Overview

**Exercise 4.36: Parasympathetic (ANS), Inferior Brain**

Check Point: Parasympathetic (ANS), Inferior Brain

In Review

What Have I Learned?

The Senses

**Exercise 4.37: Taste, Inferior Brain**

**Exercise 4.38: Taste, Tongue, Superior View**

Check Point: Taste

**Exercise 4.39: Taste – Histology, Vallate Papilla**

Check Point: Taste – Histology, Vallate Papilla

**Exercise 4.40: Taste – Histology, Taste Bud**

Check Point: Taste – Histology, Taste Bud

**Exercise 4.41: Smell, Inferior Brain**

Check Point: Smell, Inferior Brain

**Exercise 4.42: Smell, Nasal Cavity, Lateral View**

Check Point: Smell, Nasal Cavity, Lateral View

**Exercise 4.43: Smell – Histology, Olfactory Mucosa**

Check Point: Smell – Histology, Olfactory Mucosa

**Exercise 4.44: Hearing/Balance, Inferior Brain**

Check Point: Hearing/Balance, Inferior Brain

**Exercise 4.45: Hearing/Balance, Ear, Anterior View**

Check Point: Hearing/Balance, Ear, Anterior View

**Exercise 4.46: Hearing/Balance – Histology, Cochlea**

Check Point: Hearing/Balance – Histology, Cochlea

**Exercise 4.47: Hearing/Balance – Histology, Organ of Corti**

*Heads Up!*

Check Point: Hearing/Balance – Histology, Organ of Corti

**Exercise 4.48: Vision, Inferior Brain**

Check Point: Vision, Inferior Brain

**Exercise 4.49: Vision, Orbit, Lateral View**

Check Point: Vision, Orbit, Lateral View

**Exercise 4.50: Vision – Histology, Retina**

*Heads Up!*

Check Point: Vision – Histology, Retina

In Review

What Have I Learned?

(APR VOLUME THREE—CARDIOVASCULAR, LYMPHATIC, AND  
RESPIRATORY)

## **Chapter 5: The Cardiovascular System**

### Overview: Cardiovascular System

Animation: The Cardiovascular System

Animation: Blood Flow through Heart

*Heads Up!*

### The Heart

**Exercise 5.1: Heart, Internal Features, Anterior View**

Check Point: Heart, Internal Features, Anterior View

**Exercise 5.2: Heart, Vasculature, Anterior View**

Check Point: Heart, Vasculature, Anterior View

**Exercise 5.3: Heart, Vasculature, Posterior View**

Check Point: Heart, Vasculature, Posterior View

Animation: Conducting System of Heart

Animation: Cardiac Cycle

In Review

What Have I Learned?

### The Thorax

**Exercise 5.4: Thorax, Arteries, Anterior View**

Check Point: Thorax, Arteries, Anterior View

*Heads Up!*

Animation: Pulmonary and Systemic Circulation

**Exercise 5.5: Thorax, Veins, Anterior View**

Check Point: Thorax, Veins, Anterior View

*Heads Up!*

In Review

What Have I Learned?

### The Head and Neck

**Exercise 5.6: Head and Neck, Vasculature, Lateral View**

Check Point: Head and Neck, Vasculature, Lateral View

Animation: Baroreceptor Reflex

Animation: Chemoreceptor Reflex

*Heads Up!*

In Review

What Have I Learned?

### The Brain

**Exercise 5.7: Brain, Arteries, Inferior View**

Check Point: Brain, Arteries, Inferior View

Animation: Blood Flow through Brain

**Exercise 5.8: Brain, Veins, Lateral View**

Check Point: Brain, Veins, Lateral View

In Review

What Have I Learned?

### The Shoulder

**Exercise 5.9: Shoulder, Arteries, Anterior View**

Check Point: Shoulder, Arteries, Anterior View

**Exercise 5.10: Shoulder, Veins, Anterior View**

Check Point: Shoulder, Veins, Anterior View

In Review

What Have I Learned?

### The Shoulder and Arm

**Exercise 5.11: Shoulder and Arm, Arteries, Anterior View**

Check Point: Shoulder and Arm, Arteries, Anterior View

**Exercise 5.12: Shoulder and Arm, Veins, Anterior View**

Check Point: Shoulder and Arm, Veins, Anterior View  
In Review

What Have I Learned?

### The Forearm and Hand

**Exercise 5.13: Forearm and Hand, Arteries, Anterior View**

Check Point: Forearm and Hand, Arteries, Anterior View

**Exercise 5.14: Forearm and Hand, Veins, Anterior View**

Check Point: Forearm and Hand, Veins, Anterior View

*Heads Up!*

In Review

What Have I Learned?

### The Abdomen

**Exercise 5.15: Abdomen, Celiac Trunk, Anterior View**

Check Point: Abdomen, Celiac Trunk, Anterior View

Animation: Hepatic Portal System

**Exercise 5.16: Abdomen, Mesenteric Arteries, Anterior View**

Check Point: Abdomen, Mesenteric Arteries, Anterior View

**Exercise 5.17: Abdomen, Veins, Anterior View**

Check Point: Abdomen, Veins, Anterior View

In Review

What Have I Learned?

### The Pelvis

**Exercise 5.18: Pelvis-Female, Vasculature, Anterior View**

Check Point: Pelvis-Female, Vasculature, Anterior View

**Exercise 5.19: Pelvis-Male, Vasculature, Anterior View**

Check Point: Pelvis-Male, Vasculature, Anterior View

In Review

What Have I Learned?

### The Hip and Thigh

**Exercise 5.20: Hip and Thigh, Arteries, Anterior View**

Check Point: Hip and Thigh, Arteries, Anterior View

**Exercise 5.21: Hip and Thigh, Arteries, Posterior View**

Check Point: Hip and Thigh, Arteries, Posterior View

**Exercise 5.22: Hip and Thigh, Veins, Anterior View**

Check Point: Hip and Thigh, Veins, Anterior View

**Exercise 5.23: Hip and Thigh, Veins, Posterior View**

Check Point: Hip and Thigh, Veins, Posterior View

In Review

What Have I Learned?

### The Knee

**Exercise 5.24: Knee, Arteries, Anterior View**

Check Point: Knee, Arteries, Anterior View

**Exercise 5.25: Knee, Arteries, Posterior View**

Check Point: Knees, Arteries, Posterior View

**Exercise 5.26: Knee, Veins, Anterior View**

Check Point: Knee, Veins, Anterior View

**Exercise 5.27: Knee, Veins, Posterior View**

Check Point: Knee, Veins, Posterior View

*Heads Up!*

In Review

What Have I Learned?

The Leg and Foot

**Exercise 5.28: Leg and Foot, Arteries, Anterior View**

Check Point: Leg and Foot, Arteries, Anterior View

**Exercise 5.29: Leg and Foot, Arteries, Posterior View**

Check Point: Leg and Foot, Arteries, Posterior View

**Exercise 5.30: Leg and Foot, Veins, Anterior View**

Check Point: Leg and Foot, Veins, Anterior View

**Exercise 5.31: Leg and Foot, Veins, Posterior View**

Check Point: Leg and Foot, Veins, Posterior View

In Review

What Have I Learned?

Elastic Artery-The Aorta

**Exercise 5.32: Elastic Artery (Aorta) – Histology**

Check Point: Elastic Artery (Aorta) – Histology

In Review

What Have I Learned?

Large Vein-The Inferior Vena Cava

**Exercise 5.33: Large Vein (Inferior Vena Cava) – Histology**

Check Point: Large Vein (Inferior Vena Cava) – Histology

In Review

What Have I Learned?

Muscular Artery and Medium-Sized Vein

**Exercise 5.34: Muscular Artery and Medium-Sized Vein**

Check Point: Muscular Artery and Medium-Sized Vein

In Review

What Have I Learned?

Arteriole and Venule

**Exercise 5.35: Arteriole and Venule – Histology**

Check Point: Arteriole and Venule – Histology

In Review

What Have I Learned?

### Cardiac Muscle

#### **Exercise 5.36: Cardiac Muscle – Histology**

Check Point: Cardiac Muscle – Histology

In Review

What Have I Learned?

### Neurovascular Bundle

#### **Exercise 5.37: Neurovascular Bundle – Histology**

Check Point: Neurovascular Bundle – Histology

In Review

What Have I Learned?

### Hemopoiesis and Hemoglobin Breakdown

#### **Exercise 5.38: Hemopoiesis and Hemoglobin Breakdown**

Animation: Hemopoiesis

Animation: Hemoglobin Breakdown

In Review

What Have I Learned?

## **Chapter 6: The Lymphatic System**

### Overview: The Lymphatic System

Animation: Lymphatic System Overview

### The Thorax

#### **Exercise 6.1: Thorax, Anterior View**

Check Point: Thorax, Anterior View

In Review

What Have I Learned?

### Lymph Nodes

Animation: Antigen Processing

Animation: Cytotoxic T Cells

Animation: Helper T Cells

Animation: IgE Mediated Hypersensitivity

#### **Exercise 6.2: Lymph Node (low power) – Histology**

Check Point: Lymph Node (low power) – Histology

#### **Exercise 6.3: Lymph Node (high power) – Histology**

Check Point: Lymph Node (high power) – Histology

In Review

What Have I Learned?

### Palatine Tonsil

**Exercise 6.4: Palatine Tonsil (low power) – Histology**

Check Point: Palatine Tonsil (low power) – Histology

**Exercise 6.5: Palatine Tonsil (high power) – Histology**

In Review

What Have I Learned?

Peyer's Patch

**Exercise 6.6: Peyer's Patch (low power) – Histology**

Check Point: Peyer's Patch (low power), Histology

**Exercise 6.7: Peyer's Patch (high power) – Histology**

In Review

What Have I Learned?

The Spleen

**Exercise 6.8: Spleen (low power) – Histology**

Check Point: Spleen (low power) – Histology

**Exercise 6.9: Spleen (high power) – Histology**

Check Point: Spleen (high power) – Histology

In Review

What Have I Learned?

The Thymus

**Exercise 6.10: Thymus (low power) – Histology**

Check Point: Thymus (low power) – Histology

**Exercise 6.11: Thymus (high power) – Histology**

Check Point: Thymus (high power) – Histology

In Review

What Have I Learned?

*Heads Up!*

## **Chapter 7: The Respiratory System**

Overview: The Respiratory System

Animation: Respiratory System Overview

The Upper Respiratory System

**Exercise 7.1: Upper Respiratory, Lateral View**

Check Point: Upper Respiratory, Lateral View

*Heads Up!*

In Review

What Have I Learned?

The Lower Respiratory System

**Exercise 7.2: Lower Respiratory, Anterior View**

Check Point: Lower Respiratory, Anterior View  
Animation: Thoracic Cavity Dimensional Changes  
*Heads Up!*  
In Review  
What Have I Learned?

### The Larynx

**Exercise 7.3: Larynx, Anterior View**  
Check Point: Larynx, Anterior View  
**Exercise 7.4: Larynx, Lateral View**  
Check Point: Larynx, Lateral View  
**Exercise 7.5: Larynx, Posterior View**  
Check Point: Larynx, Posterior View  
In Review  
What Have I Learned?

### The Alveolus and Alveolar Duct

**Exercise 7.6: Alveolus – Histology**  
Check Point: Alveolus – Histology  
Animation: Partial Pressure  
Animation: Alveolar Pressure Changes  
Animation: Diffusion Across Respiratory Membrane  
Animation: Capillary Exchange  
**Exercise 7.7: Alveolar Duct – Histology**  
Check Point: Alveolar Duct – Histology  
In Review  
What Have I Learned?

### The Trachea

**Exercise 7.8: Trachea (low power) – Histology**  
Check Point: Trachea (low power) – Histology  
**Exercise 7.9: Trachea (high power) – Histology**  
Check Point: Trachea (high power) – Histology  
In Review  
What Have I Learned?

(APR VOLUME FOUR—DIGESTIVE, URINARY, REPRODUCTIVE,  
AND ENDOCRINE)

## **Chapter 8: The Digestive System**

### Overview: The Digestive System

Animation: Digestive System Overview

### The Oral Cavity

#### **Exercise 8.1: Oral Cavity-Pharynx, Lateral View**

Check Point: Oral Cavity-Pharynx, Lateral View

In Review

What Have I Learned?

### The Salivary Glands

#### **Exercise 8.2: Salivary Glands, Lateral View**

Check Point: Salivary Glands, Lateral View

In Review

What Have I Learned?

### The Esophagus

#### **Exercise 8.3: Esophagus, Anterior View**

Check Point: Esophagus, Anterior View

### The Abdominal Cavity

#### **Exercise 8.4: Abdominal Cavity, Anterior View**

Check Point: Abdominal Cavity, Anterior View

In Review

What Have I Learned?

### The Stomach

Animation: Stomach

#### **Exercise 8.5: Stomach – Histology**

Check Point: Stomach – Histology

#### **Exercise 8.6: Stomach and Duodenum, Anterior View**

Check Point: Stomach and Duodenum, Anterior View

Animation: Gastric Secretion

Animation: HCl Production

*Heads Up!*

In Review

What Have I Learned?

### Small Intestine

#### **Exercise 8.7: Small Intestine (Duodenum) – Histology**

Check Point: Small Intestine (Duodenum) – Histology

#### **Exercise 8.8: Small Intestine (Jejunum/Ileum) – Histology**

Check Point: Small Intestine (Jejunum/Ileum) – Histology

*Heads Up!*

In Review

What Have I Learned?

### The Colon

### **Exercise 8.9: Colon – Histology**

Check Point: Colon – Histology

*Heads Up!*

#### The Liver

Animation: Liver

### **Exercise 8.10: Liver, Anterior and Posteroinferior Views**

Check Point: Liver, Anterior and Posteroinferior Views

### **Exercise 8.11: Liver – Histology**

Check Point: Liver – Histology

### **Exercise 8.12: Biliary Ducts, Anterior View**

Check Point: Biliary Ducts, Anterior View

In Review

What Have I Learned?

#### The Pancreas

### **Exercise 8.13: Pancreas (Exocrine) – Histology**

Check Point: Pancreas (Exocrine) – Histology

#### ATP Synthesis

Animation: Hydrolysis of Sucrose

Animation: NADH/Oxidation-Reduction Reactions

Animation: Glycolysis

Animation: Krebs' s Cycle

Animation: Electron Transport and ATP Synthesis

## **Chapter 9: The Urinary System**

#### Overview

Animation: Urinary System Overview

#### The Upper Urinary System

### **Exercise 9.1: Upper Urinary, Anterior View**

Check Point: Upper Urinary, Anterior View

In Review

What Have I Learned?

#### The Kidney

Animation: Kidney Gross Anatomy

### **Exercise 9.2: Kidney, Anterior View**

Check Point: Kidney, Anterior View

In Review

What Have I Learned?

#### The Renal Corpuscle

### **Exercise 9.3: Renal Corpuscle – Histology**

Check Point: Renal Corpuscle – Histology

Animation: Kidney- Microscopic Anatomy

Animation: Urine Formation

In Review

What Have I Learned?

#### The Ureter

### **Exercise 9.4: Ureter – Histology**

Check Point: Ureter – Histology

#### The Female Lower Urinary System

### **Exercise 9.5: Lower Urinary-Female, Sagittal View**

Check Point: Lower Urinary-Female, Sagittal View

#### The Male Lower Urinary System

### **Exercise 9.6: Lower Urinary-Male, Sagittal View**

Check Point: Lower Urinary-Male, Sagittal View

#### The Urinary Bladder

### **Exercise 9.7: Urinary Bladder (low power) – Histology**

Check Point: Urinary Bladder (low power) – Histology

### **Exercise 9.8: Urinary Bladder (high power) – Histology**

Check Point: Urinary Bladder (high power) – Histology

Animation: Micturition Reflex

#### Movement through the Cell Membrane

Animation: Diffusion

Animation: Osmosis

Animation: Facilitated Diffusion

## **Chapter 10: The Reproductive System**

#### Overview: The Reproductive System

Animation: Female Reproductive System Overview

#### The Female Breast

### **Exercise 10.1: Breast, Female, Anterior View**

Check Point: Breast, Female, Anterior View

In Review

What Have I Learned?

#### The Female Pelvis

### **Exercise 10.2: Pelvis, Female, Sagittal View**

Check Point: Pelvis, Female, Sagittal View

**Exercise 10.3: Pelvis, Female, Superior View**

Check Point: Pelvis, Female, Superior View

In Review

What Have I Learned?

*Heads Up!*

The Uterus

**Exercise 10.4: Uterus (Proliferative Phase) – Histology**

Check Point: Uterus (Proliferative Phase) – Histology

The Ovarian Follicle

Animation: Comparison of Meiosis and Mitosis

Animation: Meiosis

Animation: Unique Features of Meiosis

**Exercise 10.5: Primordial Follicle – Histology**

Check Point: Primordial Follicle – Histology

Animation: Female Reproductive Cycle

**Exercise 10.6: Primary Follicle – Histology**

Check Point: Primary Follicle – Histology

**Exercise 10.7: Secondary Follicle – Histology**

Check Point: Secondary Follicle – Histology

Animation: Ovulation through Implantation

**Exercise 10.8: Corpus Ablicans – Histology**

Check Point: Corpus Ablicans – Histology

The Uterine Tube

**Exercise 10.9: Uterine Tube (low power) – Histology**

Check Point: Uterine Tube (low power) – Histology

**Exercise 10.10: Uterine Tube (high power) – Histology**

Check Point: Uterine Tube (high power) – Histology

The Female Perineum

**Exercise 10.11: Perineum-Female, Inferior View**

Check Point: Perineum-Female, Inferior View

In Review

What Have I Learned?

The Male Pelvis

Animation: Male Reproductive System Overview

**Exercise 10.12: Pelvis-Male, Sagittal View**

Check Point: Pelvis-Male, Sagittal View

In Review

What Have I Learned?

The Prostrate

**Exercise 10.13: Prostrate – Histology**

Check Point: Prostrate – Histology

The Male Perineum

**Exercise 10.14: Perineum-Male, Inferior View**

Check Point: Perineum-Male, Inferior View

In Review

What Have I Learned?

The Penis and Scrotum

**Exercise 10.15: Penis and Scrotum, Anterior View**

Check Point: Penis and Scrotum, Anterior View

In Review

What Have I Learned?

The Seminiferous Tubule

**Exercise 10.16: Seminiferous Tubule – Histology**

Check Point: Seminiferous Tubule – Histology

Animation: Spermatogenesis

In Review

What Have I Learned?

## **Chapter 11: The Endocrine System**

Overview: The Endocrine System

Animation: Hypothalamus and Pituitary Gland

Animation: Hormonal Communication

Animation: Receptors and G Proteins

The Hypothalamus, Pituitary, and Pineal Glands

**Exercise 11.1: Hypothalamus/Pituitary/Pineal, Lateral View**

Check Point: Hypothalamus/Pituitary/Pineal, Lateral View

*Heads Up!*

The Pituitary Gland

**Exercise 11.2: Anterior Pituitary – Histology**

Check Point: Anterior Pituitary – Histology

**Exercise 11.3: Posterior Pituitary – Histology**

Check Point: Posterior Pituitary – Histology

The Thyroid Gland

Animation: Thyroid Gland

**Exercise 11.4: Thyroid Gland, Anterior View and Histology**

Check Point: Thyroid Gland, Anterior View and Histology

The Parathyroid Glands

Animation: Parathyroid Glands

**Exercise 11.5: Parathyroid Gland – Histology**

Check Point: Parathyroid Gland – Histology

The Thymus

**Exercise 11.6: Thymus-Fetus, Anterior View**

Check Point: Thymus-Fetus, Anterior View

**Exercise 11.7: Thymus-Adult, Anterior View**

Check Point: Thymus-Adult, Anterior View

The Pancreas

Animation: Pancreas

**Exercise 11.8: Pancreas, Anterior View**

Check Point: Pancreas, Anterior View

**Exercise 11.9: Pancreas (Endocrine) – Histology**

Check Point: Pancreas (Endocrine) – Histology

*Heads Up!*

The Suprarenal (Adrenal) Gland

Animation: Suprarenal (Adrenal) Gland

**Exercise 11.10: Suprarenal (Adrenal) Gland, Anterior View and Histology**

Check Point: Suprarenal (Adrenal) Gland, Anterior View and Histology

The Ovary

**Exercise 11.11: Ovary, Superior View**

Check Point: Ovary, Superior View

The Testis

**Exercise 11.12: Testis, Anterior View**

Check Point: Testis, Anterior View

The Seminiferous Tubule

**Exercise 11.13: Seminiferous Tubule – Histology**

Check Point: Seminiferous Tubule – Histology

In Review

What Have I Learned?