



Anatomy & Physiology 2019

Guide to correlating A&P
to your favorite textbook

Table of Contents

Essentials of Human Anatomy, 10th Edition
by Elaine N. Marieb

Human Anatomy & Physiology, 9th Edition
by Elaine N. Marieb and Katja Hoehn

Fundamentals of Anatomy and Physiology, 9th Edition
by Frederic H. Martini, Judi L. Nath, and Edwin F. Bartholomew

Anatomy & Physiology: An Integrative Approach
by Michael P. McKinley, Valerie Dean O'Loughlin, Theresa Stouter Bidle

Anatomy & Physiology: The Unity of Form and Function, 6th Edition
by Kenneth S. Saladin

Principles of Anatomy and Physiology, 13th Edition
by Gerard J. Tortora and Bryan Derrickson

Syllabus Correlation for Anatomy & Physiology
from Open Stax

Seeley's Anatomy & Physiology, 11th Edition
by Cinnamon VanPutte, Jennifer Regan, and Andrew Russ

Hole's Human Anatomy & Physiology, 14th Edition
by David Shier, Jackie Butler, and Ricki Lewis

Human Anatomy & Physiology, 2nd Edition
by Erin C. Amerman



Syllabus Correlation for *Essentials of Human Anatomy, 10th Edition*,
by Elaine N. Marieb

Open Stax Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: The Human Body: An Orientation		
Chapter 2: Basic Chemistry		
Chapter 3: Cells and Tissues	Chapters 1-4: Cells & Tissue	3D models explore epithelial, connective, and muscle tissue. New histology slides examine different types of epithelial and connective tissue. Tissue repair, cellular respiration, transcription, and translation are featured in animations.
Chapter 4: Skin and Body Membranes	Chapters 5-6: Integumentary System	Stunning animation on tissue repair. 3D models and new histology slides of epidermis and dermis layers. Includes histology slides of mammary glands.
Chapter 5: The Skeletal System	Chapters 7-12: Skeletal System and Joints	Animations on formation of flat bones, long bones, and bone repair. 3D models include key bony landmarks of all the major bones. Animations show movement of all joint types. New histology slides of growth plate and cartilage.
Chapter 6: The Muscular System	Chapters 13-16: Muscle Tissue and Muscular System	More than 50 3D models of muscle groups. Animations on skeletal muscle contraction, featuring action potentials and cross-bridge formation. Includes new histology slides of skeletal, smooth, and cardiac muscle tissue.
Chapter 7: The Nervous System	Chapters 17-23: Nervous System and Special Senses	3D models of the brain and cranial nerves, spinal cord and spinal nerves. New histology slides of neurons, neuroglia, and the spinal cord. Animations and 3D models explore neuron structure and function, somatic and autonomic functions, somatic sensory signals, and skin sensory receptors.
Chapter 8: Special Senses	Chapters 17-23: Nervous System and Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, ears and hearing.
Chapter 9: The Endocrine System	Chapters 24-26: The Endocrine System	Animation on hormone actions. 3D models and explanation of major organs and functions. New histology slides of the pituitary gland, adrenal gland, and pancreas.
Chapter 10: Blood	Chapter 27: Introduction; Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and functions of platelets. New histology slides of blood and types of white blood cells.
Chapter 11: The Cardiovascular System	Chapter 27: Introduction; Chapter 29: Heart; Chapter 30: Blood Vessels and Circulation	More than 70 assets detailing blood vessels in 3D. Includes animations on heart chambers, heart valves, and heart conduction as well as new histology slides of cardiac muscle tissue and blood vessel walls.
Chapter 12: The Lymphatic System and Body Defenses	Chapters 31-33: Lymphatic System	3D models of key organs as well as vessels and veins, lymph node function and distribution, and types of immunity. New spleen and lymph node histology slides.
Chapter 13: The Respiratory System	Chapters 34-37: Respiratory System	3D models of all major respiratory structures. Animations include physiology of nasal mucosa, sneezing, function of the epiglottis, phonation, and function of the trachea and bronchi. New histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 14: The Digestive System and Body Metabolism	Chapters 38-42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 15: The Urinary System	Chapters 43-46: Urinary System	Animations include filtration and reabsorption and secretion. Illustrations show filtration membrane and urine composition. 3D models explore kidneys, ureters, bladder, urethra, and micturition reflex. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 16: The Reproductive System	Chapters 47-50: Reproductive System	Male and female reproductive anatomy, including animations on spermatogenesis and oogenesis. Models and illustrations cover ovulation, path of the zygote, and birth. Animations show lactation and fetal development. Includes new histology slides of the testes, ovaries, uterus, and mammary glands.



Syllabus Correlation for *Human Anatomy & Physiology, 9th Edition*,
by Elaine N. Marieb and Katja Hoehn

Marieb Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: The Human Body: An Orientation		
Chapter 2: Chemistry Comes Alive		
Chapter 3: Cells: The Living Units	Chapters 1-4: Cells & Tissue	Animations on cellular respiration, transcription, and translation.
Chapter 4: Tissue: The Living Fabric	Chapters 1-4: Cells & Tissue	3D models explore epithelial, connective, and muscle tissue. New histology slides examine different types of epithelial and connective tissue. Tissue repair and scarring are featured in an animation and 3D model.
Chapter 5: The Integumentary System	Chapters 5-6: Integumentary System	Stunning animation on tissue repair. 3D models and new histology slides of epidermis and dermis layers. Includes histology slides of mammary glands.
Chapter 6: Bones and Skeletal Tissue	Chapters 7-12: Skeletal System and Joints	Animations on formation of flat bones, long bones, and bone repair. New histology slides of growth plate and cartilage.
Chapter 7: The Skeleton	Chapters 7-12: Skeletal System and Joints	Now with 3D models that include key bony landmarks of all of the major bones.
Chapter 8: Joints	Chapter 12: Joints	Animations showing movement of all joint types.
Chapter 9: Muscles and Muscle Tissue	Chapters 13-16: Muscle Tissue and Muscular System	Animations on skeletal muscle contraction, featuring action potentials and cross-bridge formation.
Chapter 10: The Muscular System	Chapters 13-16: Muscle Tissue and Muscular System	More than 50 3D models of muscle groups. Includes new histology slides of skeletal, smooth, and cardiac muscle tissue.
Chapter 11: The Fundamentals of the Nervous System and Nervous Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrations of types of neurons and neuron structure. Includes animation of neuron function and new histology slides of neurons and neuroglia.
Chapter 12: The Central Nervous System	Chapters 17-23: Nervous System and Special Senses	3D models of the brain, spinal cord, and spinal nerves showing anatomy and innervation. Includes new histology slides of spinal cord.
Chapter 13: The Peripheral Nervous System and Reflex Activity	Chapters 17-23: Nervous System and Special Senses	Includes animations and 3D models of somatic and autonomic functions, as well as somatic sensory signals and skin sensory receptors.
Chapter 14: The Autonomic Nervous System	Chapters 17-23: Nervous System and Special Senses	3D model conveying autonomic nervous functions.
Chapter 15: The Special Senses	Chapter 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, and ears and hearing.
Chapter 16: The Endocrine System	Chapters 24-26: The Endocrine System	Animation on hormone actions, as well as 3D models and explanation of major organs and functions. New histology slides of the pituitary gland, adrenal gland, and pancreas.
Chapter 17: Blood	Chapter 27: Introduction; Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and function of platelets. Includes new histology slides of blood and types of white blood cells.
Chapter 18: The Cardiovascular System: The Heart	Chapter 27: Introduction; Chapter 29: Heart	Animations on heart chambers, heart valves, and heart conduction. Contains new histology slides of cardiac muscle tissue.
Chapter 19: The Cardiovascular System: Blood Vessels	Chapter 27: Introduction; Chapter 30: Blood Vessels and Circulation	More than 55 assets detailing arteries and veins in 3D. Includes new histology slides of blood vessel walls.
Chapter 20: The Lymphatic System and Lymphoid Organs and Tissues	Chapters 31-33: Lymphatic System	3D models of key organs, as well as vessels and veins and lymph node function and distribution. Includes new spleen and lymph node histology slides.
Chapter 21: The Immune System: Innate and Adaptive Body Defenses	Chapters 31-33: Lymphatic System	Phagocytosis animation and illustrations on innate immunity, adaptive immunity, and types of white blood cells. 3D models of B and T cells.

Chapter 22: The Respiratory System	Chapters 34-37: Respiratory System	3D models of all major respiratory structures. Animations include physiology of nasal mucosa, sneezing, function of the epiglottis, phonation, and function of the trachea and bronchi. New histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 23: The Digestive System	Chapters 38-42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 24: Nutrition, Metabolism, and Body Temperature Regulation	Chapters 38-42: Digestive System; Chapters 24-26: The Endocrine System	3D models include the pancreas and pancreatic islets, and hypothalamus. Contains new pancreas histology slides.
Chapter 25: The Urinary System	Chapters 43-46: Urinary System	Animations include filtration and illustrations show filtration membrane and urine composition. 3D models explore kidneys, ureters, bladder, urethra, and micturition reflex. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 26: Fluid, Electrolyte, and Acid-Base Balance	Chapters 43-46: Urinary System	Animations include reabsorption and secretion.
Chapter 27: The Reproductive System	Chapters 47-50: Reproductive System	Male and female reproductive anatomy, including animations on spermatogenesis and oogenesis. Includes new histology slides of the testes, ovaries, uterus, and mammary glands.
Chapter 28: Pregnancy and Human Development	Chapters 47-50: Reproductive System	Models and illustrations cover ovulation, path of the zygote, and birth. Animations show lactation and fetal development.
Chapter 29: Heredity	Chapters 47-50: Reproductive System, Chapters 2-3: Cell Structure and Function and Cell Life Cycle	DNA illustrations, as well as transcription and translation animations and illustrations. Animation features an overview of the reproductive system.



Syllabus Correlation for *Fundamentals of Anatomy and Physiology, 9th Edition*
by Elaine N. by Frederic H. Martini, Judi L. Nath, and Edwin F. Bartholomew

Martini Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: An Introduction to Anatomy and Physiology		
Chapter 2: The Chemical Level of Organization		
Chapter 3: The Cellular Level of Organization	Chapters 1-4: Cells & Tissue	Animations on cellular respiration, transcription, and translation.
Chapter 4: The Tissue Level of Organization	Chapters 1-4: Cells & Tissue	3D models explore epithelial, connective, and muscle tissue. New histology slides examine different types of epithelial and connective tissue. Tissue repair and scarring are featured in an animation and 3D model.
Chapter 5: The Integumentary System	Chapters 5-6: Integumentary System	Stunning animation on tissue repair. 3D models and new histology slides of epidermis and dermis layers. Includes histology slides of mammary glands.
Chapter 6: Osseous Tissue and Bone Structure	Chapters 7-9: Skeletal System and Joints	Animations on formation of flat bones, long bones, and bone repair. New histology slides of growth plate and cartilage.
Chapter 7: The Axial Skeleton	Chapter 10: Axial Skeleton	3D models include key bony landmarks of all major bones.
Chapter 8: The Appendicular Skeleton	Chapter 11: Appendicular Skeleton	3D models include key bony landmarks of all major bones.
Chapter 9: Articulations	Chapter 12: Joints	Animations showing movement of all joint types.
Chapter 10: Muscle Tissue	Chapters 13-16: Muscle Tissue and Muscular System	Animations on skeletal muscle contraction, featuring action potentials and cross-bridge formation.
Chapter 11: The Muscular System	Chapters 13-16: Muscle Tissue and Muscular System	More than 50 3D models of muscle groups. Includes new histology slides of skeletal, smooth, and cardiac muscle tissue.
Chapter 12: Neural Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrations of types of neurons and neuron structure. Includes animation of neuron function and new histology slides of neurons and neuroglia.
Chapter 13: The Spinal Cord, Spinal Nerves, and Spinal Reflexes	Chapters 17-23: Nervous System and Special Senses	3D models of the spinal cord and spinal nerves showing anatomy and innervation. Includes new histology slides of spinal cord.
Chapter 14: The Brain and Cranial Nerves	Chapters 17-23: Nervous System and Special Senses	3D models of the brain and cranial nerves showing anatomy and innervation.
Chapter 15: Neural Integration I: Sensory Pathways and the Somatic Nervous System	Chapters 17-23: Nervous System and Special Senses	Includes animations and 3D models of somatic and autonomic functions, as well as somatic sensory signals and skin sensory receptors.
Chapter 16: Neural Integration II: The Autonomic Nervous System and Higher-Order Functions	Chapters 17-23: Nervous System and Special Senses	3D models conveying autonomic nervous functions.
Chapter 17: The Special Senses	Chapter 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, and ears and hearing.
Chapter 18: The Endocrine System	Chapters 24-26: The Endocrine System	Animation on hormone actions, as well as 3D models and explanation of major organs and functions. New histology slides of the pituitary gland, adrenal gland, and pancreas.

Chapter 19: Blood	Chapter 27: Introduction; Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and function of platelets. Includes new histology slides of blood and types of white blood cells.
Chapter 20: The Heart	Chapter 27: Introduction; Chapter 29: Heart	Animations on heart chambers, heart valves, and heart conduction. Contains new histology slides of cardiac muscle tissue.
Chapter 21: Blood Vessels and Circulation	Chapter 27: Introduction; Chapter 30: Blood Vessels and Circulation	More than 55 assets detailing arteries and veins in 3D. Includes new histology slides of blood vessel walls.
Chapter 22: The Lymphatic System and Immunity	Chapters 31-33: Lymphatic System	3D models of key organs, as well as vessels and veins and lymph node function and distribution. Includes new spleen and lymph node histology slides.
Chapter 23: The Respiratory System	Chapters 34-37: Respiratory System	3D models of all major respiratory structures. Animations include physiology of nasal mucosa, sneezing, function of the epiglottis, phonation, and function of the trachea and bronchi. New histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 24: The Digestive System	Chapters 38-42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 25: Metabolism and Energetics	Chapters 38-42: Digestive System; Chapters 24-26: Endocrine System	3D models include the pancreas and pancreatic islets, and hypothalamus. Contains new pancreas histology slides.
Chapter 26: The Urinary System	Chapters 43-46: Urinary System	Animations include filtration and illustrations show filtration membrane and urine composition. 3D models explore kidneys, ureters, bladder, urethra, and micturition reflex. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 27: Fluid, Electrolyte, and Acid-Base Balance	Chapters 43-46: Urinary System	Animations include reabsorption and secretion.
Chapter 28: The Reproductive System	Chapters 47-50: Reproductive System	Male and female reproductive anatomy, including animations on spermatogenesis and oogenesis. Includes new histology slides of the testes, ovaries, uterus, and mammary glands.
Chapter 29: Development and Inheritance	Chapters 47-50: Reproductive System, Chapters 2-3: Cell Structure and Function and Cell Life Cycle	Models and illustrations cover ovulation, path of the zygote, birth, transcription, and translation. Animations show lactation and fetal development.



Syllabus Correlation for *Anatomy & Physiology: An Integrative Approach*
by Michael P. McKinley, Valerie Dean O’Loughlin, Theresa Stouter Bidle

McKinley Chapter Name	Visible Body’s Anatomy & Physiology Unit	Key Highlights
Chapter 1: The Sciences of Anatomy and Physiology		
Chapter 2: Atoms, Ions, and Molecules		
Chapter 3: Energy, Chemical Reactions, and Cellular Respiration	Chapters 1-4: Cells & Tissue	Animation on cellular respiration.
Chapter 4: Biology of the Cell	Chapters 1-4: Cells & Tissue	In-depth animations and illustrations of transcription and translation.
Chapter 5: Tissue Organization	Chapters 1-4: Cells & Tissue	3D models explore epithelial, connective, and muscle tissue. New histology slides examine different types of epithelial and connective tissue. Tissue repair and scarring are featured in an animation and 3D model.
Chapter 6: Integumentary System	Chapters 5-6: Integumentary System	Stunning animation on tissue repair. 3D models and new histology slides of epidermis and dermis layers. Includes histology slides of mammary glands.
Chapter 7: Skeletal System: Bone Structure and Function	Chapters 7-9: Skeletal System and Joints	Animations on formation of flat bones, long bones, and bone repair. New histology slides of growth plate and cartilage.
Chapter 8: Skeletal System: Axial and Appendicular Skeleton	Chapter 10: Axial Skeleton; Chapter 11: Appendicular Skeleton	3D models include key bony landmarks of all major bones.
Chapter 9: Skeletal System: Articulations	Chapter 12: Joints	Animations showing movement of all joint types.
Chapter 10: Muscle Tissue	Chapters 13-16: Muscle Tissue and Muscular System	Animations on skeletal muscle contraction, featuring action potentials and cross-bridge formation.
Chapter 11: Muscular System: Axial and Appendicular Muscles	Chapters 13-16: Muscle Tissue and Muscular System	More than 50 3D models of muscle groups. Includes new histology slides of skeletal, smooth, and cardiac muscle tissue.
Chapter 12: Nervous System: Nervous Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrations of types of neurons and neuron structure. Includes animation of neuron function and new histology slides of neurons and neuroglia.
Chapter 13: Nervous System: Brain and Cranial Nerves	Chapters 17-23: Nervous System and Special Senses	3D models of the brain and cranial nerves showing anatomy and innervation.
Chapter 14: Nervous System: Spinal Cord and Spinal Nerves	Chapters 17-23: Nervous System and Special Senses	3D models of the spinal cord and spinal nerves showing anatomy and innervation. Includes new histology slides of spinal cord.
Chapter 15: Nervous System: Autonomic Nervous System	Chapters 17-23: Nervous System and Special Senses	3D models conveying autonomic nervous functions.
Chapter 16: Nervous System: Senses	Chapter 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, and ears and hearing.
Chapter 17: Endocrine System	Chapters 24-26: The Endocrine System	Animation on hormone actions, as well as 3D models and explanation of major organs and functions. New histology slides of the pituitary gland, adrenal gland, and pancreas.
Chapter 18: Cardiovascular System: Blood	Chapter 27: Introduction; Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and function of platelets. Includes new histology slides of blood and types of white blood cells.
Chapter 19: Cardiovascular System: Heart	Chapter 27: Introduction; Chapter 29: Heart	Animations on heart chambers, heart valves, and heart conduction. Contains new histology slides of cardiac muscle tissue.

Chapter 20: Cardiovascular System: Vessels and Circulation	Chapter 27: Introduction; Chapter 30: Blood Vessels and Circulation	More than 55 assets detailing arteries and veins in 3D. Includes new histology slides of blood vessel walls.
Chapter 21: Lymphatic System	Chapters 31-33: Lymphatic System	3D models of key organs, as well as vessels and veins and lymph node function and distribution. Includes new spleen and lymph node histology slides.
Chapter 22: Immune System and the Body's Defense	Chapters 31-33: Lymphatic System	Phagocytosis animation and illustrations on innate immunity, adaptive immunity, and types of white blood cells. 3D models of B and T cells.
Chapter 23: Respiratory System	Chapters 34-37: Respiratory System	3D models of all major respiratory structures. Animations include physiology of nasal mucosa, sneezing, function of the epiglottis, phonation, and function of the trachea and bronchi. New histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 24: Urinary System	Chapters 43-46: Urinary System	Animations include filtration and illustrations show filtration membrane and urine composition. 3D models explore kidneys, ureters, bladder, urethra, and micturition reflex. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 25: Fluid and Electrolytes	Chapters 43-46: Urinary System	Animations include reabsorption and secretion.
Chapter 26: Digestive System	Chapters 38-42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 27: Nutrition and Metabolism	Chapters 38-42: Digestive System; Chapters 24-26: Endocrine System	3D models include the pancreas and pancreatic islets, and hypothalamus. Contains new pancreas histology slides.
Chapter 28: Reproductive System	Chapters 47-50: Reproductive System	Male and female reproductive anatomy, including animations on spermatogenesis and oogenesis. Includes new histology slides of the testes, ovaries, uterus, and mammary glands.
Chapter 29: Development, Pregnancy, and Heredity	Chapters 47-50: Reproductive System, Chapters 2-3: Cell Structure and Function and Cell Life Cycle	Models and illustrations cover ovulation, path of the zygote, birth, transcription, and translation. Animations show lactation and fetal development.



Syllabus Correlation for *Anatomy & Physiology: The Unity of Form and Function, 6th Edition*
by Kenneth S. Saladin

Saladin Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: Major Themes of Anatomy and Physiology; Atlas A: General Orientation to Human Anatomy		
Chapter 2: The Chemistry of Life		
Chapter 3: Cellular Form and Function	Chapters 1-4: Cells & Tissue	Animation on cellular respiration.
Chapter 4: Genetics and Cellular Function	Chapters 1-4: Cells & Tissue	In-depth animations and illustrations of transcription and translation.
Chapter 5: Histology	Chapters 1-4: Cells & Tissue	3D models showing anatomy of all major parts of the cell.
Chapter 6: The Integumentary System	Chapters 5-6: Integumentary System	Stunning animation on tissue repair. 3D models and new histology slides of epidermis and dermis layers. Includes histology slides of mammary glands.
Chapter 7: Bone Tissue	Chapters 7-9: Skeletal System and Joints	Animations on formation of flat bones, long bones, and bone repair. New histology slides of growth plate and cartilage.
Chapter 8: The Skeletal System	Chapters 7-9: Skeletal System and Joints	3D models include key bony landmarks of all major bones.
Chapter 9: Joints	Chapter 12: Joints	Animations showing movement of all joint types.
Chapter 10: The Muscular System; Atlas B: Regional and Surface Anatomy	Chapters 13-16: Muscle Tissue and Muscular System	More than 50 3D models of muscle groups. Includes new histology slides of skeletal, smooth, and cardiac muscle tissue.
Chapter 11: Muscular Tissue	Chapters 13-16: Muscle Tissue and Muscular System	Animations on skeletal muscle contraction, featuring action potentials and cross-bridge formation.
Chapter 12: Nervous Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrations of types of neurons and neuron structure. Includes animation of neuron function and new histology slides of neurons and neuroglia.
Chapter 13: The Spinal Cord, Spinal Nerves, and Somatic Reflexes	Chapters 17-23: Nervous System and Special Senses	3D models of the spinal cord and spinal nerves, as well as animations and 3D models of somatic and autonomic functions, somatic sensory signals, and skin sensory receptors. Includes new histology slides of spinal cord.
Chapter 14: The Brain and Cranial Nerves	Chapters 17-23: Nervous System and Special Senses	3D models of the brain and cranial nerves showing anatomy and innervation.
Chapter 15: The Autonomic Nervous System and Visceral Reflexes	Chapters 17-23: Nervous System and Special Senses	3D models conveying autonomic nervous functions.
Chapter 16: Sense Organs	Chapter 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, taste and eyes and vision, and ears and hearing.
Chapter 17: The Endocrine System	Chapters 24-26: The Endocrine System	Animation on hormone actions, as well as 3D models and explanation of major organs and functions. New histology slides of the pituitary gland, adrenal gland, and pancreas.
Chapter 18: The Circulatory System: Blood	Chapter 27: Introduction; Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and function of platelets. Includes new histology slides of blood and types of white blood cells.
Chapter 19: The Circulatory System: The Heart	Chapter 27: Introduction; Chapter 29: Heart	Animations on heart chambers, heart valves, and heart conduction. Contains new histology slides of cardiac muscle tissue.
Chapter 20: The Circulatory System: Blood Vessels and Circulation	Chapter 27: Introduction; Chapter 30: Blood Vessels and Circulation	More than 55 assets detailing arteries and veins in 3D. Includes new histology slides of blood vessel walls.

Chapter 21: The Lymphatic and Immune Systems	Chapters 31-33: Lymphatic System	3D models of key organs, as well as vessels and veins, lymph node function and distribution, and types of immunity. Includes new spleen and lymph node histology slides.
Chapter 22: The Respiratory System	Chapters 34-37: Respiratory System	3D models of all major respiratory structures. Animations include physiology of nasal mucosa, sneezing, function of the epiglottis, phonation, and function of the trachea and bronchi. New histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 23: The Urinary System	Chapters 43-46: Urinary System	Animations include filtration and illustrations show filtration membrane and urine composition. 3D models explore kidneys, ureters, bladder, urethra, and micturition reflex. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 24: Water, Electrolyte, and Acid-Base Balance	Chapters 43-46: Urinary System	Animations include reabsorption and secretion.
Chapter 25: The Digestive System	Chapters 38-42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 26: Nutrition and Metabolism	Chapters 38-42: Digestive System; Chapters 24-26: Endocrine System	3D models include the pancreas and pancreatic islets, and hypothalamus. Contains new pancreas histology slides.
Chapter 27: The Male Reproductive System	Chapters 47-50: Reproductive System	3D models of male reproductive anatomy, including animation on spermatogenesis. Includes new histology slides of the testes.
Chapter 28: The Female Reproductive System	Chapters 47-50: Reproductive System	3D models of female reproductive anatomy, including animation on oogenesis. Includes new histology slides of the ovaries, uterus, and mammary glands.
Chapter 29: Human Development and Aging	Chapters 47-50: Reproductive System	Models and illustrations cover ovulation, path of the zygote, birth, transcription, and translation. Animations show lactation and fetal development.



Syllabus Correlation for *Principles of Anatomy and Physiology, 13th Edition*
by Gerard J. Tortora and Bryan Derrickson

Tortora Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: An Introduction to the Human Body		
Chapter 2: The Chemical Level of Organization		
Chapter 3: The Cellular Level of Organization	Chapters 1-4: Cells & Tissue	Animations on cellular respiration, transcription, and translation.
Chapter 4: The Tissue Level of Organization	Chapters 1-4: Cells & Tissue	3D models explore epithelial, connective, and muscle tissue. New histology slides examine different types of epithelial and connective tissue. Tissue repair and scarring are featured in an animation and 3D model.
Chapter 5: The Integumentary System	Chapters 5-6: Integumentary System	Stunning animation on tissue repair. 3D models and new histology slides of epidermis and dermis layers. Includes histology slides of mammary glands.
Chapter 6: The Skeletal System: Bone Tissue	Chapters 7-9: Skeletal System and Joints	Animations on formation of flat bones, long bones, and bone repair. New histology slides of growth plate and cartilage.
Chapter 7: The Skeletal System: The Axial Skeleton	Chapter 10: Axial Skeleton	3D models include key bony landmarks of all major bones.
Chapter 8: The Skeletal System: The Appendicular Skeleton	Chapter 11: Appendicular Skeleton	3D models include key bony landmarks of all major bones.
Chapter 9: Joints	Chapter 12: Joints	Animations showing movement of all joint types.
Chapter 10: Muscular Tissue	Chapters 13-16: Muscle Tissue and Muscular System	Animations on skeletal muscle contraction, featuring action potentials and cross-bridge formation.
Chapter 11: The Muscular System	Chapters 13-16: Muscle Tissue and Muscular System	More than 50 3D models of muscle groups. Includes new histology slides of skeletal, smooth, and cardiac muscle tissue.
Chapter 12: Nervous Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrations of types of neurons and neuron structure. Includes animation of neuron function and new histology slides of neurons and neuroglia.
Chapter 13: The Spinal Cord and Spinal Nerves	Chapters 17-23: Nervous System and Special Senses	3D models of the spinal cord and spinal nerves showing anatomy and innervation. Includes new histology slides of spinal cord.
Chapter 14: The Brain and Cranial Nerves	Chapters 17-23: Nervous System and Special Senses	3D models of the brain and cranial nerves showing anatomy and innervation.
Chapter 15: The Autonomic Nervous System	Chapters 17-23: Nervous System and Special Senses	3D models conveying autonomic nervous functions.
Chapter 16: Sensory, Motor, and Integrative Systems	Chapters 17-23: Nervous System and Special Senses	3D models of somatic and autonomic functions, somatic sensory signals, and skin sensory receptors.
Chapter 17: The Special Senses	Chapter 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, and ears and hearing.
Chapter 18: The Endocrine System	Chapters 24-26: Endocrine System	Animation on hormone actions, as well as 3D models and explanation of major organs and functions. New histology slides of the pituitary gland, adrenal gland, and pancreas.
Chapter 19: The Cardiovascular System: The Blood	Chapter 27: Introduction; Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and function of platelets. Includes new histology slides of blood and types of white blood cells.

Chapter 20: The Cardiovascular System: The Heart	Chapter 27: Introduction; Chapter 29: Heart	Animations on heart chambers, heart valves, and heart conduction. Contains new histology slides of cardiac muscle tissue.
Chapter 21: The Cardiovascular System: Blood Vessels and Hemodynamics	Chapter 27: Introduction; Chapter 30: Blood Vessels and Circulation	More than 55 assets detailing arteries and veins in 3D. Includes new histology slides of blood vessel walls.
Chapter 22: The Lymphatic System and Immunity	Chapters 31-33: Lymphatic System	3D models of key organs, as well as vessels and veins, lymph node function and distribution, and types of immunity. Includes new spleen and lymph node histology slides.
Chapter 23: The Respiratory System	Chapters 34-37: Respiratory System	3D models of all major respiratory structures. Animations include physiology of nasal mucosa, sneezing, function of the epiglottis, phonation, and function of the trachea and bronchi. New histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 24: The Digestive System	Chapters 38-42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 25: Metabolism and Nutrition	Chapters 38-42: Digestive System; Chapters 24-26: Endocrine System	3D models include the pancreas and pancreatic islets, and hypothalamus. Contains new pancreas histology slides.
Chapter 26: The Urinary System	Chapters 43-46: Urinary System	Animations include filtration and illustrations show filtration membrane and urine composition. 3D models explore kidneys, ureters, bladder, urethra, and micturition reflex. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 27: Fluid, Electrolyte, and Acid-Base Homeostasis	Chapters 43-46: Urinary System	Animations include reabsorption and secretion.
Chapter 28: The Reproductive Systems	Chapters 47-50: Reproductive System	Male and female reproductive anatomy, including animations on spermatogenesis and oogenesis. Includes new histology slides of the testes, ovaries, uterus, and mammary glands.
Chapter 29: Development and Inheritance	Chapters 47-50: Reproductive System	Models and illustrations cover ovulation, path of the zygote, birth, transcription, and translation. Animations show lactation and fetal development.



Syllabus Correlation for Anatomy and Physiology, *from Open Stax*

Open Stax Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: An Introduction to the Human Body		
Chapter 2: The Chemical Level of Organization		
Chapter 3: The Cellular Level of Organization	Chapter 1: Introduction: Cells and Tissues; Chapter 2: Cell Structure and Function; Chapter 3: Cell Life Cycle	Animations on cellular respiration, transcription, and translation.
Chapter 4: The Tissue Level of Organization	Chapter 4: Tissues	3D models explore epithelial, connective, and muscle tissue. New histology slides examine different types of epithelial and connective tissue. Tissue repair and scarring are featured in an animation and 3D model.
Chapter 5: The Integumentary System	Chapters 5-6: Integumentary System	Stunning animation on tissue repair. 3D models and new histology slides of epidermis and dermis layers. Includes histology slides of mammary glands.
Chapter 6: Bone Tissue and the Skeletal System	Chapter 7: Introduction: Skeletal System/ Joints; Chapter 8: Types of Bones; Chapter 9: Bone Tissue	Animations on formation of flat bones, long bones, and bone repair. 3D models include key bony landmarks of all the major bones. New histology slides of growth plate and cartilage.
Chapter 7: Axial Skeleton	Chapter 10: Axial Skeleton	3D models include key bony landmarks of all the major bones.
Chapter 8: The Appendicular Skeleton	Chapter 11: Appendicular Skeleton	3D models include key bony landmarks of all the major bones.
Chapter 9: Joints	Chapter 12: Joints	Animations showing movement of all joint types.
Chapter 10: Muscle Tissue	Chapter 13: Introduction: Muscular System; Chapter 14: Skeletal Muscle Tissue; Chapter 15: Smooth and Cardiac Muscle Tissue	Animations on skeletal muscle contraction, featuring action potentials and cross-bridge formation. Includes new histology slides of skeletal, smooth, and cardiac muscle tissue.
Chapter 11: The Muscular System	Chapter 16: Muscular System	More than 50 3D models of muscle groups.
Chapter 12: The Nervous System and Nervous Tissue	Chapter 17: Introduction: Nervous System/ Special Senses; Chapter 18: Nervous Tissue	Illustrations of types of neurons and neuron structure. Includes animation of neuron function and new histology slides of neurons and neuroglia.
Chapter 13: Anatomy of the Nervous System	Chapter 19: Spinal Cord and Spinal Nerves; Chapter 20: Brain; Chapter 21: Cranial Nerves	3D models of the spinal cord and spinal nerves showing anatomy and innervation. Includes new histology slides of spinal cord.
Chapter 14: The Somatic Nervous System	Chapter 22: Somatic and Autonomic Nervous Systems; Chapter 23: Special Senses	3D models of somatic and autonomic functions, somatic sensory signals, and skin sensory receptors; as well as 3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, and ears and hearing.
Chapter 15: The Autonomic Nervous System	Chapter 22: Somatic and Autonomic Nervous Systems	3D models conveying autonomic nervous functions.
Chapter 16: The Neurological Exam		
Chapter 17: The Endocrine System	Chapters 24-26: Endocrine System	Animation on hormone actions, as well as 3D models and explanation of major organs and functions. New histology slides of the pituitary gland, adrenal gland, and pancreas.
Chapter 18: The Cardiovascular System: Blood	Chapter 27: Introduction: Circulatory System; Chapter 28: Blood	Animations, 3D models, and illustrations explain the production and functions of blood plasma, red blood cells, white blood cells, and platelets. Includes new histology slides of blood and types of white blood cells.

Chapter 19: The Cardiovascular System: The Heart	Chapter 27: Introduction: Circulatory System; Chapter 29: Heart	Animations on heart chambers, heart valves, and heart conduction. Contains new histology slides of cardiac muscle tissue.
Chapter 20: The Cardiovascular System: Blood Vessels and Circulation	Chapter 27: Introduction: Circulatory System; Chapter 30: Blood Vessels and Circulation	More than 55 assets detailing arteries and veins in 3D. Includes new histology slides of blood vessel walls.
Chapter 21: The Lymphatic and Immune System	Chapters 31-33: Lymphatic System	3D models of key organs, as well as vessels and veins, lymph node function and distribution, and types of immunity. Includes new spleen and lymph node histology slides.
Chapter 22: The Respiratory System	Chapters 34-37: Respiratory System	3D models of all major respiratory structures. Animations include physiology of nasal mucosa, sneezing, function of the epiglottis, phonation, and function of the trachea and bronchi. New histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 23: The Digestive System	Chapters 38-42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 24: Metabolism and Nutrition		
Chapter 25: The Urinary System	Chapters 43-46: Urinary System	Animations include filtration and reabsorption and secretion. Illustrations show filtration membrane and urine composition. 3D models explore kidneys, ureters, bladder, urethra, and micturition reflex. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 26: Fluid, Electrolyte, and Acid-Base Balance		
Chapter 27: The Reproductive System	Chapter 47: Introduction: Reproductive System; Chapter 48: Male Reproductive System; Chapter 49: Female Reproductive System	Male and female reproductive anatomy, including animations on spermatogenesis and oogenesis. Includes new histology slides of the testes, ovaries, uterus, and mammary glands.
Chapter 28: Development and Inheritance	Chapter 50: Sexual Reproduction and Development	Models and illustrations cover ovulation, path of the zygote, birth, transcription, and translation. Animations show lactation and fetal development.



Syllabus Correlation for *Seeley's Anatomy & Physiology, 11th Edition*
by Cinnamon VanPutte, Jennifer Regan, and Andrew Russ

Seeley's Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: The Human Organism		
Chapter 2: The Chemical Basis of Life		
Chapter 3: Cell Biology	Chapters 1-4: Cells & Tissue	Animations show passive and active transport, mitosis, cellular respiration, transcription, and translation. 3D models and illustrations explain cell structures and functions, cell types, osmosis, the cell cycle, meiosis, protein synthesis, and DNA replication.
Chapter 4: Tissues	Chapter 4: Tissues	An animation and 3D model show tissue repair and scarring. 3D models explain epithelial, connective, muscular, and nervous tissue. New histology slides examine different types of epithelial and connective tissue.
Chapter 5: Integumentary System	Chapters 5–6: Integumentary System	An animation and 3D model show tissue repair and scarring. 3D models explain the epidermis and dermis layers, skin circulation and innervation, and the structure and function of skin, hair, nails, and glands. Includes new histology slides of epidermis, dermis, and mammary glands.
Chapter 6: Skeletal System: Bones and Bone Tissue	Chapter 8: Types of Bones; Chapter 9: Bone Tissue	Animations on formation of flat bones, long bones, and bone repair. 3D models and illustrations explain the bone types, bone tissue, and types of fractures. New histology slides of growth plate and cartilage.
Chapter 7: Skeletal System: Gross Anatomy	Chapter 10: Axial Skeleton; Chapter 11: Appendicular Skeleton	3D models and illustrations explain the structures of the axial and appendicular skeleton with key bony landmarks on all the major bones.
Chapter 8: Joints and Movement	Chapter 12: Joints	Animations and 3D models show all the joint types and their movements. An illustration explains the effects of aging on joints.
Chapter 9: Muscular System: Histology and Physiology	Chapters 13–16: Muscle Tissue and Muscular System	7 different animations, as well as several 3D models, illustrations, and new histology slides, cover the structure and functions of skeletal, smooth, and cardiac muscle.
Chapter 10: Muscular System: Gross Anatomy	Chapter 16: Muscular System	3D models explore over 50 different groups of muscle structures. An animation shows muscle interactions. Illustrations explain skeletal muscle attachments and the three classes of levers.
Chapter 11: Functional Organization of Nervous Tissue	Chapter 17: Introduction; Chapter 18: Nervous Tissue; Chapter 22: Somatic and Autonomic Nervous Systems	3D models, animations, and illustrations explain the functions of the central, peripheral, somatic, autonomic, sympathetic, and parasympathetic divisions of the nervous system; neuron types, structure, and function; neuroglia in the central and peripheral nervous systems; resting and action potentials; and neurotransmitters. New histology slides explore neurons and neuroglia.
Chapter 12: Spinal Cord and Spinal Nerves	Chapter 19: Spinal Cord and Spinal Nerves	3D models and illustrations explain spinal cord anatomy, sensory signals, motor commands, and spinal nerve structure and regions. An animation and 3D model cover the somatic reflex arc. Includes new histology slides of the spinal cord.
Chapter 13: Brain and Cranial Nerves	Chapter 20: Brain; Chapter 21: Cranial Nerves	3D models show the brain's structures, functions, and blood supply as well as the cranial nerves. Animations explain olfaction and vision.
Chapter 14: Integration of Nervous System Functions	Chapter 22: Somatic and Autonomic Nervous Systems	3D models explain somatic nervous system functions, somatic sensory and motor signals, and skin sensory receptors. An illustration shows somatic sensory and motor pathways. An animation and 3D model explain skeletal muscle contraction and the role of the basal ganglia and cerebellum.
Chapter 15: The Special Senses	Chapter 23: Special Senses	3D models explain the olfactory, taste, vision, auditory, and equilibrium pathways. Animations show the processes of olfaction, vision, and hearing. 3D models and illustrations identify the structures of the tongue, eyes, and ears.

Chapter 16: Autonomic Nervous System	Chapter 22: Somatic and Autonomic Nervous Systems	An animation and 3D model compare somatic and autonomic nervous system functions. 3D models and illustrations explain the structures and functions of the autonomic nervous system and its sympathetic and parasympathetic divisions.
Chapter 17: Functional Organization of the Endocrine System	Chapters 24–26: Endocrine System	Animations show the endocrine system's structures and functions and hormone action. A 3D model explains hormone circulation.
Chapter 18: Endocrine Glands	Chapters 24–26: Endocrine System	3D models show the primary and secondary endocrine organs and explain the hormones they produce. New histology slides of the pituitary gland, adrenal gland, and pancreas.
Chapter 19: Cardiovascular System: Blood	Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and function of platelets. Includes new histology slides of blood and types of white blood cells.
Chapter 20: Cardiovascular System: The Heart	Chapter 29: Heart	Animations show the anatomy and conduction of the heart, electrocardiogram, cardiac cycle, cardiac output, and blood pressure. 3D models explain the heart's location, anatomy, functions, circulation, conduction, and autonomic regulation. New histology slides show cardiac muscle tissue.
Chapter 21: Cardiovascular System: Blood Vessels and Circulation	Chapter 27: Introduction; Chapter 30: Blood Vessels and Circulation	Animations explain circulatory system functions, blood pressure, and systolic and diastolic pressure. 3D models and illustrations show the blood vessel types and their structure, pulmonary circulation, and systemic circulation, including over 40 models of specific blood vessel groups. Includes new histology slides of blood vessel walls.
Chapter 22: Lymphatic System and Immunity	Chapters 31–33: Lymphatic System	3D models explain the structure and functions of the key lymphatic organs, vessels and veins, and lymph nodes. 3D models and illustrations explore innate immunity, adaptive immunity, and types of white blood cells. An animation shows phagocytosis. Includes new spleen and lymph node histology slides.
Chapter 23: Respiratory System	Chapter 34–37: Respiratory System	3D models explain all the major respiratory structures. Animations show the nasal mucosa's physiology; the functions of the epiglottis, trachea, and bronchi; and respiratory processes, including sneezing, olfaction, and phonation. Animations and 3D models explain pulmonary ventilation, external respiration, internal respiration, and respiratory regulation. Includes new histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 24: Digestive System	Chapters 38–42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 25: Nutrition, Metabolism, and Temperature Regulation	Chapters 38–42: Digestive System; Chapters 24–26: Endocrine System	3D models explain the pancreas, pancreatic islets, liver, and the hypothalamus. Includes new pancreas histology slides. An illustration explains blood glucose level. An animation and 3D models show absorption in the intestines.
Chapter 26: Urinary System	Chapters 43–46: Urinary System	Animations and 3D models show filtration, reabsorption, and secretion. 3D models and illustrations explain the kidneys, nephron structure, urine composition, the ureters, the micturition reflex, and the male and female bladder and urethra. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 27: Water, Electrolyte, and Acid-Base Balance	Chapters 43–46: Urinary System	Animations and 3D models show reabsorption and secretion.
Chapter 28: Reproductive System	Chapters 47–50: Reproductive System; Chapter 3: Cell Life Cycle	3D models and illustrations explain the male and female reproductive structures and hormones, meiosis, and the reproductive lifespan. Animations show spermatogenesis and oogenesis. Includes new histology slides of the testes, ovaries, uterus, and mammary glands.
Chapter 29: Development, Growth, Aging, and Genetics	Chapters 47–50: Reproductive System, Chapters 2–3: Cell Structure and Function and Cell Life Cycle	Animations, 3D models, and illustrations explain ovulation, sexual reproduction, fertilization, pregnancy hormones, development stages (gamete, zygote, embryo, fetus), birth, and lactation as well as meiosis and DNA replication, transcription, and translation.



Syllabus Correlation for *Hole's Human Anatomy & Physiology, 14th Edition*
by David Shier, Jackie Butler, and Ricki Lewis

Hole's Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: Introduction to Human Anatomy and Physiology		
Chapter 2: Chemical Basis of Life		
Chapter 3: Cells	Chapters 1-4: Cells & Tissue	Animations show passive and active transport and mitosis. 3D models and illustrations explain cell structures and functions, cell types, osmosis, the cell cycle, and meiosis.
Chapter 4: Cellular Metabolism	Chapters 1-4: Cells & Tissue	Animations show cellular respiration, transcription, and translation. 3D models and illustrations explain protein synthesis and DNA replication.
Chapter 5: Tissues	Chapter 4: Tissues	An animation and 3D model show tissue repair and scarring. 3D models explain epithelial, connective, muscular, and nervous tissue. New histology slides examine different types of epithelial and connective tissue.
Chapter 6: Integumentary System	Chapters 5–6: Integumentary System	An animation and 3D model show tissue repair and scarring. 3D models explain the epidermis and dermis layers, skin circulation and innervation, and the structure and function of skin, hair, nails, and glands. Includes new histology slides of epidermis, dermis, and mammary glands.
Chapter 7: Skeletal System	Chapters 7–12: Skeletal System and Joints	Animations on formation of flat bones, long bones, bone repair and osteoporosis. 3D models and illustrations explain the bone types, bone tissue, types of fractures, and the structures of the axial and appendicular skeleton with key bony landmarks on all the major bones. New histology slides of growth plate and cartilage.
Chapter 8: Joints of the Skeletal System	Chapter 12: Joints	Animations and 3D models show all the joint types and their movements.
Chapter 9: Muscular System	Chapters 13–16: Muscle Tissue and Muscular System	7 different animations, as well as several 3D models, illustrations, and new histology slides, cover the structure and functions of skeletal, smooth, and cardiac muscle.
Chapter 10: Nervous System I: Basic Structure and Function	Chapters 17–23: Nervous System and Special Senses	Illustrations explain types of neurons and neuron structure. An animation shows neuron function.
Chapter 11: Nervous System II: Divisions of the Nervous System	Chapters 17–23: Nervous System and Special Senses	3D models and illustrations show the anatomy and functions of the brain, cranial nerves, spinal cord, and spinal nerves. Includes new histology slides of the spinal cord. 3D models, animations, and illustrations explain the functions of the somatic, autonomic, sympathetic, and parasympathetic nervous systems.
Chapter 12: Nervous System III: Senses	Chapter 23: Special Senses	3D models explain the olfactory, taste, vision, auditory, and equilibrium pathways. Animations show the processes of olfaction, vision, and hearing. 3D models and illustrations identify the structures of the tongue, eyes, and ears.
Chapter 13: Endocrine System	Chapters 24–26: Endocrine System	An animation shows hormone actions. 3D models and illustrations explain the major endocrine organs and functions. Includes histology slides of the pituitary gland, adrenal gland, and pancreas.
Chapter 14: Blood	Chapter 27: Introduction; Chapter 28: Blood	Animations, 3D models, and illustrations explain the production and functions of blood plasma, red blood cells, white blood cells, and platelets. Includes new histology slides of blood and types of white blood cells.
Chapter 15: Cardiovascular System	Chapter 27: Introduction; Chapter 29: Heart; Chapter 30: Blood Vessels and Circulation	Animations show the anatomy and conduction of the heart, electrocardiogram, cardiac cycle, cardiac output, and blood pressure. 3D models explain the heart's location, anatomy, functions, circulation, conduction, and autonomic regulation, as well as blood vessel types and structure and pulmonary and systemic circulation. New histology slides include cardiac muscle tissue and blood vessel walls.

Chapter 16: Lymphatic System and Immunity	Chapters 31–33: Lymphatic System	3D models explain the structure and functions of the key lymphatic organs, vessels and veins, and lymph nodes. 3D models and illustrations explore innate immunity, adaptive immunity, and types of white blood cells. An animation shows phagocytosis. Includes new spleen and lymph node histology slides.
Chapter 17: Digestive System	Chapters 38–42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 18: Nutrition and Metabolism	Chapters 38–42: Digestive System; Chapters 24–26: Endocrine System	3D models explain the pancreas, pancreatic islets, liver, and the hypothalamus. Includes new pancreas histology slides. An illustration explains blood glucose level. An animation and 3D models show absorption in the intestines.
Chapter 19: Respiratory System	Chapter 34–37: Respiratory System	3D models explain all the major respiratory structures. Animations show the nasal mucosa's physiology; the functions of the epiglottis, trachea, and bronchi; and respiratory processes, including sneezing, olfaction, and phonation. Animations and 3D models explain pulmonary ventilation, external respiration, internal respiration, and respiratory regulation. Includes new histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 20: Urinary System	Chapters 43–46: Urinary System	Animations and 3D models show filtration, reabsorption, and secretion. 3D models and illustrations explain the kidneys, nephron structure, urine composition, the ureters, the micturition reflex, and the male and female bladder and urethra. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 21: Water, Electrolyte, and Acid-Base Balance	Chapters 43–46: Urinary System	Animations and 3D models show reabsorption and secretion.
Chapter 22: Reproductive Systems	Chapters 47–50: Reproductive System	3D models and illustrations explain the male and female reproductive structures and hormones, meiosis, and the reproductive lifespan. Animations show spermatogenesis and oogenesis. Includes new histology slides of the testes, ovaries, uterus, and mammary glands.
Chapter 23: Pregnancy, Growth, and Development	Chapters 47–50: Reproductive System	3D models and illustrations explain ovulation, sexual reproduction, pregnancy hormones, development stages (gamete, zygote, embryo, fetus), and birth. Animations show lactation, fertilization, and fetal development.
Chapter 24: Genetics and Genomics	Chapters 47–50: Reproductive System, Chapters 2–3: Cell Structure and Function and Cell Life Cycle	Illustrations explain fetal reproductive development and the reproductive lifespan. Animations, 3D models, and illustrations explain DNA replication, transcription, and translation as well as meiosis.



Syllabus Correlation for *Human Anatomy & Physiology, 2nd Edition* by Erin C. Amerman

Amerman's Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: Introduction to Anatomy and Physiology		
Chapter 2: The Chemistry of Life		
Chapter 3: The Cell	Chapters 1-4: Cells & Tissue	Animations show passive and active transport, mitosis, cellular respiration, transcription, and translation. 3D models and illustrations explain cell structures and functions, cell types, osmosis, the cell cycle, meiosis, protein synthesis, and DNA replication.
Chapter 4: Histology	Chapter 4: Tissues	3D models explore epithelial, connective, and muscle tissue. New histology slides examine different types of epithelial and connective tissue. Tissue repair and scarring are featured in an animation and 3D model.
Chapter 5: The Integumentary System	Chapters 5-6: Integumentary System	Stunning animation on tissue repair. 3D models and new histology slides of epidermis and dermis layers. Includes histology slides of mammary glands.
Chapter 6: Bones and Bone Tissue	Chapters 7-12: Skeletal System and Joints	Animations on formation of flat bones, long bones, and bone repair. 3D models include key bony landmarks of all the major bones. New histology slides of growth plate and cartilage.
Chapter 7: The Skeletal System	Chapters 7-12: Skeletal System and Joints	3D models include key bony landmarks of all the major bones.
Chapter 8: Articulations	Chapter 12: Joints	Animations showing movement of all joint types.
Chapter 9: The Muscular System	Chapters 13-16: Muscle Tissue and Muscular System	More than 50 3D models of muscle groups.
Chapter 10: Muscle Tissue and Physiology	Chapters 13-16: Muscle Tissue and Muscular System	Animations on skeletal muscle contraction, featuring action potentials and cross-bridge formation. Includes new histology slides of skeletal, smooth, and cardiac muscle tissue.
Chapter 11: Introduction to the Nervous System and Nervous Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrations of types of neurons and neuron structure. Includes animation of neuron function and new histology slides of neurons and neuroglia.
Chapter 12: The Central Nervous System	Chapters 17-23: Nervous System and Special Senses	3D models show the brain's structures, functions, and blood supply.
Chapter 13: The Peripheral Nervous System	Chapters 17-23: Nervous System and Special Senses	3D models and illustrations show the anatomy and functions of the cranial nerves, spinal cord, and spinal nerves. Includes new histology slides of the spinal cord.
Chapter 14: The Autonomic Nervous System and Homeostasis	Chapters 17-23: Nervous System and Special Senses	3D models, animations, and illustrations explain the functions of the somatic, autonomic, sympathetic, and parasympathetic nervous systems.
Chapter 15: The Special Senses	Chapter 23: Special Senses	3D models explain the olfactory, taste, vision, auditory, and equilibrium pathways. Animations show the processes of olfaction, vision, and hearing. 3D models and illustrations identify the structures of the tongue, eyes, and ears.
Chapter 16: The Endocrine System	Chapters 24-26: The Endocrine System	An animation shows hormone actions. 3D models and illustrations explain the major endocrine organs and functions. Includes histology slides of the pituitary gland, adrenal gland, and pancreas.
Chapter 17: The Cardiovascular System I: The Heart	Chapter 29: Heart	Animations show the anatomy and conduction of the heart, electrocardiogram, cardiac cycle, cardiac output, and blood pressure. 3D models explain the heart's location, anatomy, functions, circulation, conduction, and autonomic regulation. New histology slides show cardiac muscle tissue.
Chapter 18: The Cardiovascular System II: The Blood Vessels	Chapter 27: Introduction: Circulatory System; Chapter 30: Blood Vessels and Circulation	Animations explain circulatory system functions, blood pressure, and systolic and diastolic pressure. 3D models and illustrations show the blood vessel types and their structure, pulmonary circulation, and systemic circulation, including over 40 models of specific blood vessel groups. Includes new histology slides of blood vessel walls.

Chapter 19: Blood	Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and function of platelets. Includes new histology slides of blood and types of white blood cells.
Chapter 20: The Lymphatic System and Immunity	Chapters 31-33: The Lymphatic System	3D models explain the structure and functions of the key lymphatic organs, vessels and veins, and lymph nodes. 3D models and illustrations explore innate immunity, adaptive immunity, and types of white blood cells. An animation shows phagocytosis. Includes new spleen and lymph node histology slides.
Chapter 21: The Respiratory System	Chapters 34-37: Respiratory System	3D models explain all the major respiratory structures. Animations show the nasal mucosa's physiology; the functions of the epiglottis, trachea, and bronchi; and respiratory processes, including sneezing, olfaction, and phonation. Animations and 3D models explain pulmonary ventilation, external respiration, internal respiration, and respiratory regulation. Includes new histology slides of the trachea wall, lung tissue, bronchial trees, and alveoli.
Chapter 22: The Digestive System	Chapter 38-42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion. Includes new histology slides of taste buds, salivary glands, esophagus, stomach, pancreas, small intestine, and large intestine.
Chapter 23: Metabolism and Nutrition		
Chapter 24: The Urinary System	Chapters 43-46: Urinary System	Animations include filtration and reabsorption and secretion. Illustrations show filtration membrane and urine composition. 3D models explore kidneys, ureters, bladder, urethra, and micturition reflex. New histology slides of the kidneys, nephrons, ureters, and bladder.
Chapter 25: Fluid, Electrolyte, and Acid-Base Homeostasis		
Chapter 26: The Reproductive System	Chapters 47-50: Reproductive System	Male and female reproductive anatomy, including animations on spermatogenesis and oogenesis. Includes new histology slides of the testes, ovaries, uterus, and mammary glands.
Chapter 27: Development and Heredity	Chapter 50: Sexual Reproduction and Development	Models and illustrations cover ovulation, path of the zygote, birth, transcription, and translation. Animations show lactation and fetal development.