

# **Anatomy & Physiology**

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**

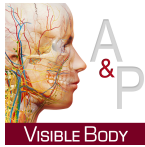
by Kenneth S. Saladin

## **Principles of Anatomy and Physiology, 13th Edition**

by Gerard J. Tortora and Bryan Derrickson

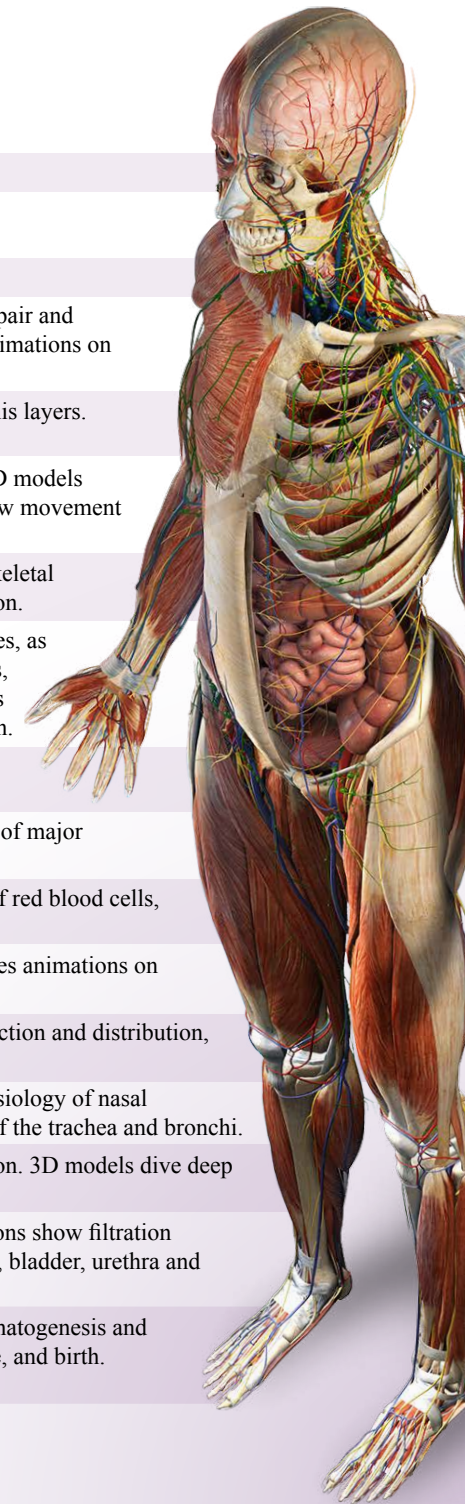
## **Syllabus Correlation for Anatomy & Physiology**

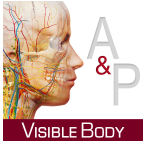
from Open Stax



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

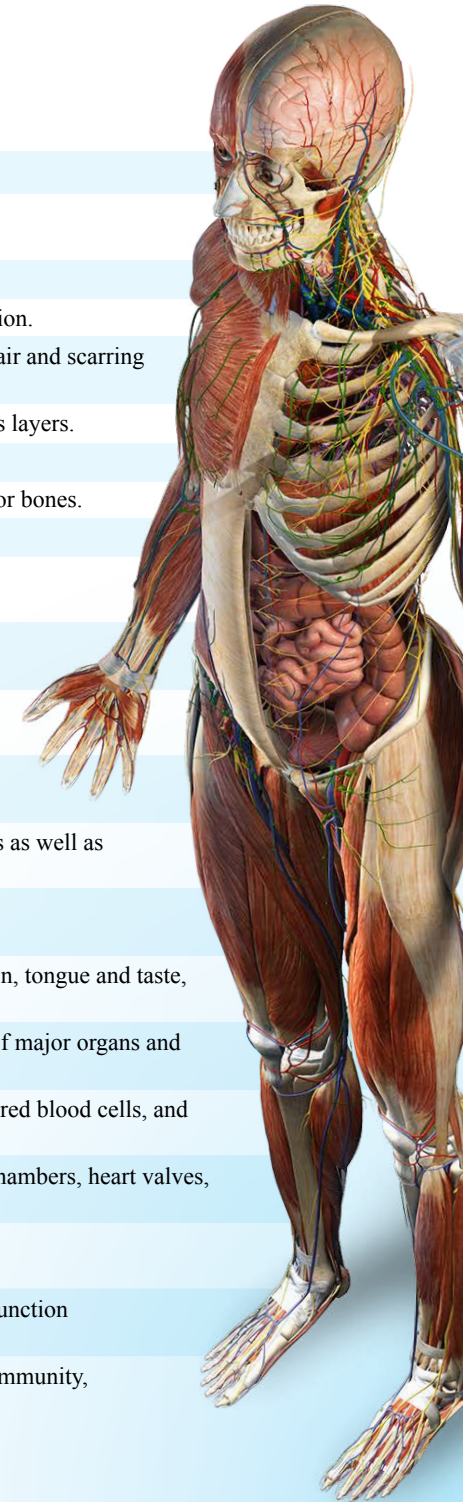
Marieb Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: The Human Body: An Orientation		
Chapter 2: Basic Chemistry		
Chapter 3: Cells and Tissues	Chapters 1-4: Cells & Tissue	3D models explore epithelial, connective, and muscle tissue. Tissue repair and scarring are featured in an animation and 3D model. Plus three new animations on cellular respiration, transcription, and translation.
Chapter 4: Skin and Body Membranes	Chapters 5-6: Integumentary System	Stunning animation on tissue repair. 3D models of epidermis and dermis layers.
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 of the major bones. Animations show movement of all joint types.
Chapter 6: The Muscular System	Chapters 13-16: Muscle Tissue and Muscular System	More than 50 3D models of muscle groups. Two new animations on skeletal muscle contraction featuring action potential and cross-bridge formation.
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, as well as animations and 3D models of somatic and autonomic functions, somatic sensory signals, and skin sensory receptors. Illustrates of types of neurons and neuron structure. Includes animation of neuron function.
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, as well as 3D models and explanation of major organs and functions.
Chapter 10: 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.
Chapter 11: The Cardiovascular System	Chapter 27: Introduction; Chapter 29: Heart; Chapter 30: Blood Vessels and Circulation	More than 70 assets detailing arteries, veins, and vessels in 3D. Includes animations on heart chambers, heart valves, heart conduction, and more.
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.
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.
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.
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.
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.



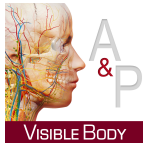


Syllabus Correlation for *Human Anatomy & Physiology, 9th Edition*  
by Elaine N. Marieb and Katja Hoehn

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	Three new 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. 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 of epidermis and dermis layers.
Chapter 6: Bones and Skeletal Tissues	Chapters 7-12: Skeletal System and Joints	Animations on formation of flat bones, long bones, and bone repair.
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	Two new animations on skeletal muscle contraction featuring action potential 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.
Chapter 11: The Fundamentals of the Nervous System and Nervous Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrates of types of neurons and neuron structure. Includes animation of neuron function.
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.
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 to convey autonomic nervous functions.
Chapter 15: The Special Senses	Chapters 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, 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.
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.
Chapter 18: The Cardiovascular System: The Heart	Chapter 27: Introduction; Chapter 29: Heart	More than 25 assets on anatomy in 3D, including animations on heart chambers, heart valves, heart conduction, and more.
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.
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.
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.

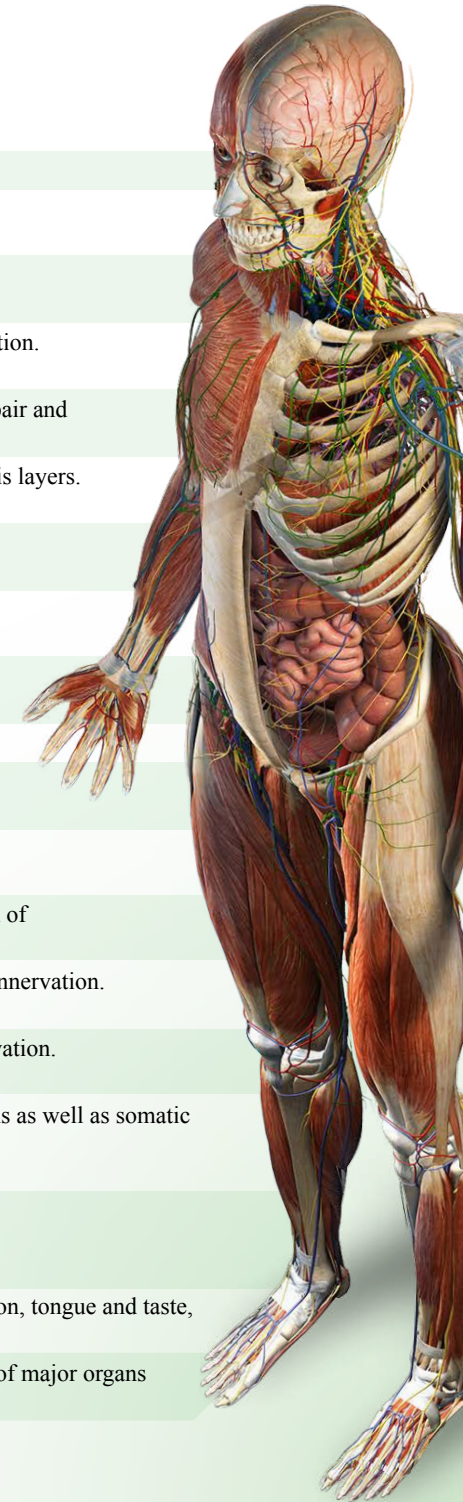


Chapter 22: The Respiratory System	Chapters 34-37: Respiratory System	3D models of all major respiratory structures. Animations include physiology of nasal mucosa, sneezing, function of the epiglottis, phonation, and function of the trachea and bronchi.
Chapter 23: The Digestive System	Chapters 38-42: Digestive System	Animations include chewing and swallowing, peristalsis, and absorption. 3D models dive deep into primary and accessory organs of digestion.
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.
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.
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.
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.

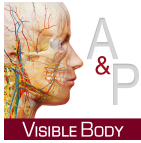


Syllabus Correlation for *Fundamentals of Anatomy and Physiology, 9th Edition*  
by Frederic H. Martini, Judi L. Nath, and Edwin F. Bartholomew

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	Three new 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. 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 of epidermis and dermis layers.
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.
Chapter 7: The Axial Skeleton	Chapter 10: Axial Skeleton	Now with 3D models that include key bony landmarks of all of the major bones.
Chapter 8: The Appendicular Skeleton	Chapter 11: Appendicular Skeleton	Now with 3D models that include key bony landmarks of all of the 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	Two new animations on skeletal muscle contraction featuring action potential 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.
Chapter 12: Neural Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrates of types of neurons and neuron structure. Includes animation of neuron function.
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.
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 model to convey autonomic nervous functions.
Chapter 17: The Special Senses	Chapters 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, 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.

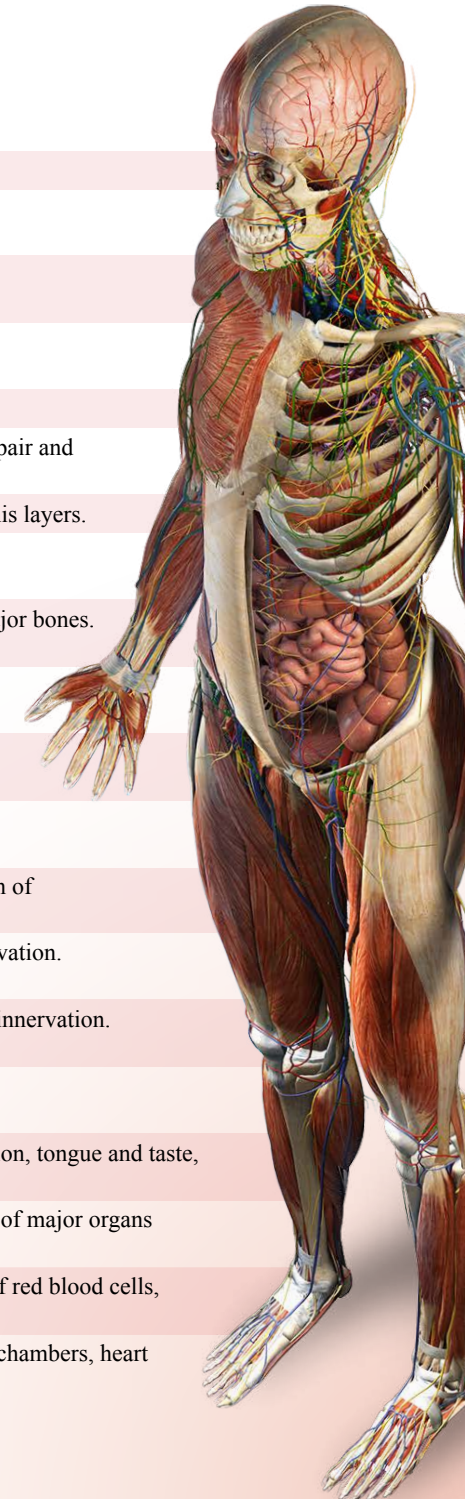


Chapter 19: Blood	Chapter 27: Introduction; Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and function of platelets.
Chapter 20: The Heart	Chapter 27: Introduction; Chapter 29: Heart	More than 25 assets on anatomy in 3D, including animations on heart chambers, heart valves, heart conduction, and more.
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.
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.
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.
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.
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.
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.
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.
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.



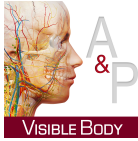
Syllabus Correlation for *Anatomy & Physiology: An Integrative Approach*  
by Michael P. McKinley, Valerie Dean O’Loughlin, Theresa Stouter Bidle

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	New 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. 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 of epidermis and dermis layers.
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.
Chapter 8: Skeletal System: Axial and Appendicular Skeleton	Chapter 10: Axial Skeleton; Chapter 11: Appendicular Skeleton	Now with 3D models that include key bony landmarks of all of the 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	Two new animations on skeletal muscle contraction featuring action potential 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.
Chapter 12: Nervous System: Nervous Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrates of types of neurons and neuron structure. Includes animation of neuron function.
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.
Chapter 15: Nervous System: Autonomic Nervous System	Chapters 17-23: Nervous System and Special Senses	3D model to convey autonomic nervous functions.
Chapter 16: Nervous System: Senses	Chapters 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, 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.
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.
Chapter 19: Cardiovascular System: Heart	Chapter 27: Introduction; Chapter 29: Heart	More than 25 assets on anatomy in 3D, including animations on heart chambers, heart valves, heart conduction, and more.



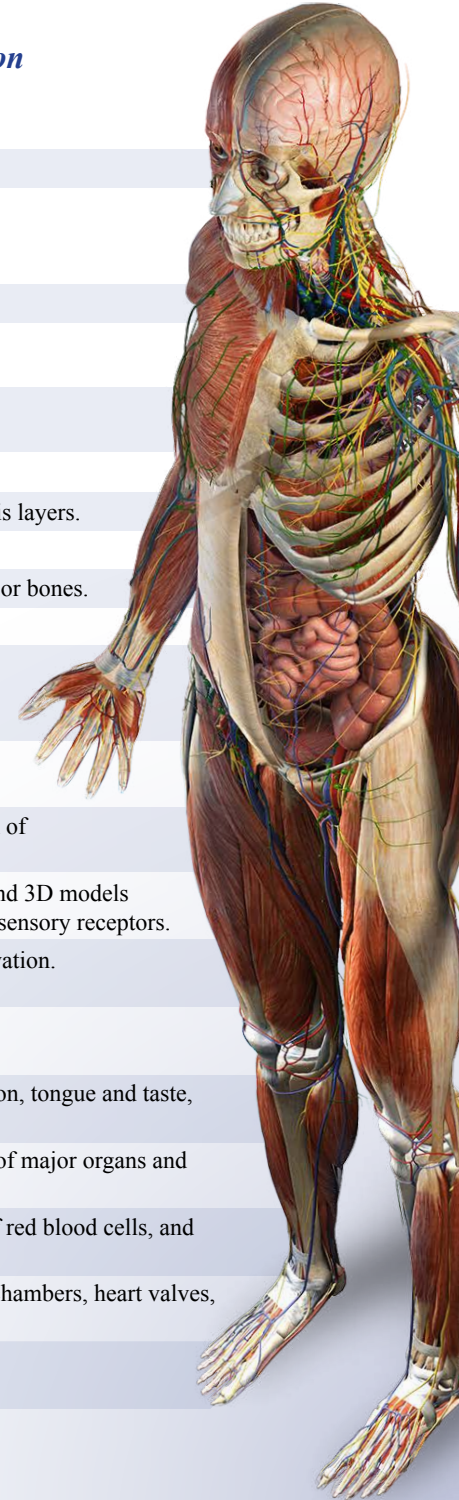


Chapter 20: Cardiovascular System: Vessels and Circulation	Chapter 27: Introduction; Chapter 30: Blood Vessels and Circulation	More than 55 assets detailing arteries and veins in 3D.
Chapter 21: Lymphatic System	Chapters 31-33: Lymphatic System	3D models of key organs as well as vessels and veins and lymph node function and distribution.
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.
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.
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.
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.
Chapter 28: Reproductive System	Chapters 47-50: Reproductive System	Male and female reproductive anatomy, including animations on spermatogenesis and oogenesis.
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.

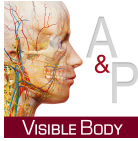


Syllabus Correlation for *Anatomy & Physiology: The Unity of Form and Function, 6th Edition*  
by Kenneth S. Saladin

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	New 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 of epidermis and dermis layers.
Chapter 7: Bone Tissue	Chapters 7-9: Skeletal System and Joints	Animations on formation of flat bones, long bones, and bone repair.
Chapter 8: The Skeletal System	Chapters 7-9: Skeletal System and Joints	Now with 3D models that include key bony landmarks of all of the 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.
Chapter 11: Muscular Tissue	Chapters 13-16: Muscle Tissue and Muscular System	Two new animations on skeletal muscle contraction featuring action potential and cross-bridge formation.
Chapter 12: Nervous Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrates of types of neurons and neuron structure. Includes animation of neuron function.
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.
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 model to convey autonomic nervous functions.
Chapter 16: Sense Organs	Chapters 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, ears and hearing.
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.
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.
Chapter 19: The Circulatory System: The Heart	Chapter 27: Introduction; Chapter 29: Heart	More than 25 assets on anatomy in 3D, including animations on heart chambers, heart valves, heart conduction, and more.
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.

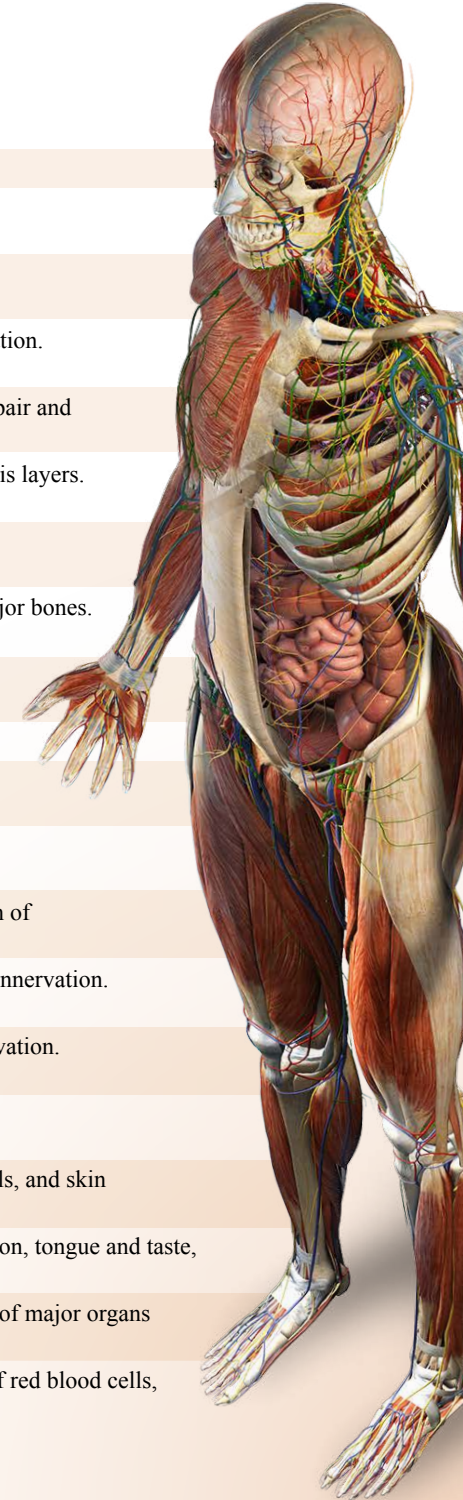


Chapter 21: The Lymphatic and Immune Systems	Chapters 31-33: Lymphatic System	3D models of key organs as well as vessels and veins, lymph node function and distribution, and types of immunity.
Chapter 22: The Respiratory System	Chapters 34-37: Respiratory System	3D models of all major respiratory structures. Animations include physiology of nasal mucosa, sneezing, function of the epiglottis, phonation, and function of the trachea and bronchi.
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.
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.
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.
Chapter 27: The Male Reproductive System	Chapters 47-50: Reproductive System	3D models of male reproductive anatomy, including animation on spermatogenesis.
Chapter 28: The Female Reproductive System	Chapters 47-50: Reproductive System	3D models of female reproductive anatomy, including animation on oogenesis.
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

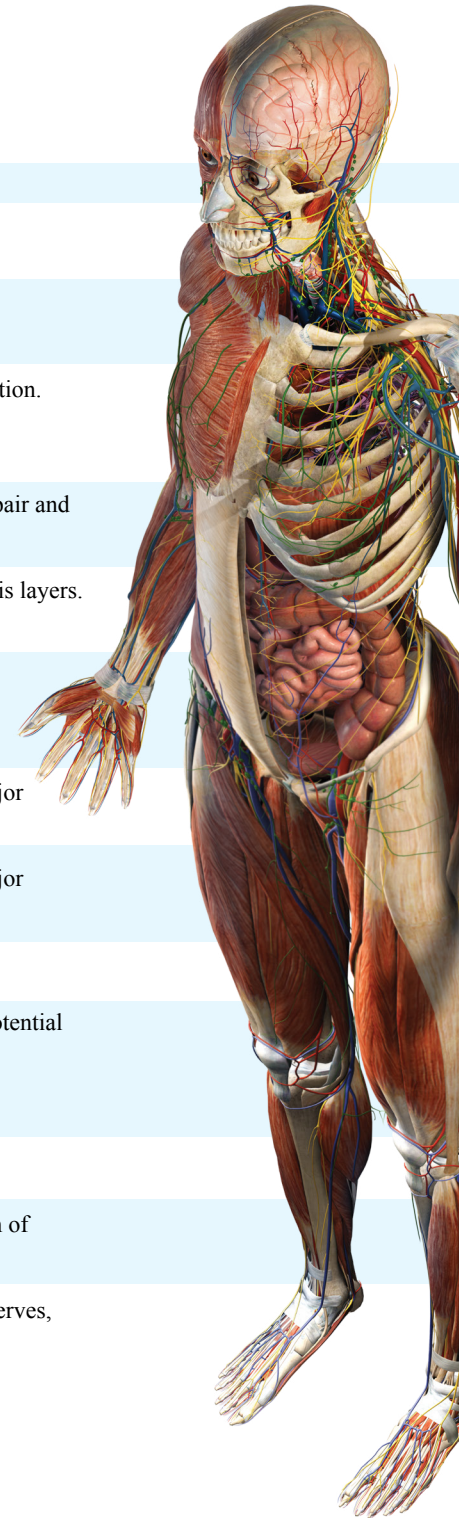
Tortora Chapter Name	Visible Body's Anatomy & Physiology Unit	Key Highlights
Chapter 1: An Introduction to the Human Body		
Chapter 2: The Chemical Level of Organization		
Chapter 3: The Cellular Level of Organization	Chapters 1-4: Cells & Tissue	Three new animations on cellular respiration, transcription, and translation.
Chapter 4: The Tissue Level of Organization	Chapters 1-4: Cells & Tissue	3D models explore epithelial, connective, and muscle tissue. 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 of epidermis and dermis layers.
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.
Chapter 7: The Skeletal System: The Axial Skeleton	Chapter 10: Axial Skeleton	Now with 3D models that include key bony landmarks of all of the major bones.
Chapter 8: The Skeletal System: The Appendicular Skeleton	Chapter 11: Appendicular Skeleton	Now with 3D models that include key bony landmarks of all of the 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	Two new animations on skeletal muscle contraction featuring action potential 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.
Chapter 12: Nervous Tissue	Chapters 17-23: Nervous System and Special Senses	Illustrates of types of neurons and neuron structure. Includes animation of neuron function.
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.
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 model to convey 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	Chapters 23: Special Senses	3D models and animations on olfactory pathway and process of olfaction, tongue and taste, eyes and vision, 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.
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.



Chapter 20: The Cardiovascular System: The Heart	Chapter 27: Introduction; Chapter 29: Heart	More than 25 assets on anatomy in 3D, including animations on heart chambers, heart valves, heart conduction, and more.
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.
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.
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.
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.
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.
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.
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.
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 & 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	Three new 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. 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 of epidermis and dermis layers.
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 of the major bones.
Chapter 7: Axial Skeleton	Chapter 10: Axial Skeleton	Now with 3D models that include key bony landmarks of all of the major bones.
Chapter 8: The Appendicular Skeleton	Chapter 11: Appendicular Skeleton	Now with 3D models that include key bony landmarks of all of 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	Two new animations on skeletal muscle contraction featuring action potential and cross-bridge formation.
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	Illustrates of types of neurons and neuron structure. Includes animation of neuron function.
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 and brain and cranial nerves, showing anatomy and innervation.



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, ears and hearing.
Chapter 15: The Autonomic Nervous System	Chapter 22: Somatic and Autonomic Nervous Systems	3D model to convey 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.
Chapter 18: The Cardiovascular System: Blood	Chapter 27: Introduction: Circulatory System; Chapter 28: Blood	Animations on blood plasma, production of red blood cells, function of red blood cells, and function of platelets.
Chapter 19: The Cardiovascular System: The Heart	Chapter 27: Introduction: Circulatory System; Chapter 29: Heart	More than 25 assets on anatomy in 3D, including animations on heart chambers, heart valves, heart conduction, and more.
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.
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.
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.
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.
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.
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.
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.



VISIBLE  BODY®

# ANATOMY IS AT THE HEART OF WHAT WE TEACH

Visit Our Higher Ed Page

Get a Professor Trial of the  
A&P Course Pack