

Human Anatomy and Physiology Curriculum Map 2017-18

	1 st 9 WEEKS	2 nd 9 WEEKS	3 rd 9 WEEKS	4 th 9 WEEKS
Week 1	<ul style="list-style-type: none"> • Orientation • Safety • Scientific Method (Characteristics of Science) 	<ul style="list-style-type: none"> • Joints (SAP 2b) <ul style="list-style-type: none"> ○ Types of joints ○ Types of joint movement • Homeostatic Imbalances of the Skeletal System (SAP 2b) 	Endocrine System (SAP 3) <ul style="list-style-type: none"> • Overview of Hormones (SAP 3a) • Hormone Action (SAP 3a) • Major Hormones (SAP 3a) • Glands (SAP 3a) – Structure, location, and functions <ul style="list-style-type: none"> ○ Pituitary Gland 	<ul style="list-style-type: none"> • Specific Body Defenses cont. (SAP 4a, d) • Developmental Aspects and Aging (SAP 4a, d, e)
Week 2	Overview of the Human Body (SAP1) <ul style="list-style-type: none"> • Levels of Organization • Major organ systems and their functions (SAP1b) • Homeostasis (SAP 1c, d) • Biochemistry (SAP 1d) 	Muscular System (SAP 2) <ul style="list-style-type: none"> • Types of Muscle Tissue (SAP 2b) • Muscle Functions (SAP 2b) • Microscopic anatomy of muscle tissue (SAP 2b) 	<ul style="list-style-type: none"> ○ Thyroid Gland ○ Parathyroid Glands ○ Adrenal Glands <ul style="list-style-type: none"> ▪ Adrenal Response ○ Thymus Gland, Pineal Gland ○ Pancreatic Islets ○ Gonads • Development of the Endocrine System 	Digestive System (SAP 4) <ul style="list-style-type: none"> • Anatomy of the Digestive System (SAP 4a) • Functions of the Digestive System (SAP 4a) <ul style="list-style-type: none"> ○ Stomach activities ○ Intestinal activity
Week 3	<ul style="list-style-type: none"> • Anatomical Terminology (SAP 1a) • Directional Terminology (SAP 1a) • Cavities, Planes and Sections (SAP 1a) 	<ul style="list-style-type: none"> • Muscle Contraction (SAP 2b) <ul style="list-style-type: none"> ○ Stimulation and contraction ○ Types of contractions • Muscle movement (SAP 2b) <ul style="list-style-type: none"> ○ Types of movement ○ Naming muscles 	Blood (SAP 4) <ul style="list-style-type: none"> • Blood Components (SAP 4a) <ul style="list-style-type: none"> ○ Cell Types ○ Blood Cell Formation • Blood Disorders (SAP 4a) 	<ul style="list-style-type: none"> • Nutrition (SAP 4a) <ul style="list-style-type: none"> ○ Nutrients ○ Biochemistry review ○ Metabolism and Energy Balance • Development of the Digestive System (SAP 4a)
Week 4	Cells and Tissues (SAP 2) <ul style="list-style-type: none"> • Cell Structure Review (SAP 2) • Cell Physiology Review 	<ul style="list-style-type: none"> • Identifying Muscles (SAP 2b) <ul style="list-style-type: none"> ○ Head and neck ○ Trunk 	<ul style="list-style-type: none"> • Blood Typing (SAP 4) <ul style="list-style-type: none"> ○ Blood types ○ Transfusions • Development of Blood 	Urinary System (SAP 4) <ul style="list-style-type: none"> • Anatomy of the system (SAP 4a, c) <ul style="list-style-type: none"> ○ Kidneys

Characteristics of Science standards will be incorporated throughout the course. Also Literacy Standards will be incorporated throughout the course

Updated 5/19/2015

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	<ul style="list-style-type: none"> (Transport) (SAP 1c, d) • Protein Synthesis (SAP 1c, d) • Epithelial Tissue (SAP 2) 	<ul style="list-style-type: none"> ○ Upper limbs ○ Lower limbs • Developmental Aspects of the Muscular System (SAP 2b) 		<ul style="list-style-type: none"> ○ Bladder, Ureters, Urethra • Balance in the Urinary System (SAP 4a, c)
Week 5	<ul style="list-style-type: none"> • Connective Tissue (SAP 2) • Muscle Tissue (SAP 2) • Nervous Tissue (SAP 2) • Wound Repair (SAP 2) 	Nervous System (SAP 3) <ul style="list-style-type: none"> • Organization (SAP 3c) • Nervous Tissue (SAP 3c) <ul style="list-style-type: none"> ○ Cell Types ○ Neurons 	Cardiovascular System (SAP 4) <ul style="list-style-type: none"> • Heart (SAP 4a, b) <ul style="list-style-type: none"> ○ Anatomy ○ Physiology ○ Dissection 	<ul style="list-style-type: none"> • pH balance in the Urinary System (SAP 4a, c) • Development of the Urinary System (SAP 4a, c)
Week 6	Integumentary System (SAP2) <ul style="list-style-type: none"> • Tissue Classification (SAP 2a) • Functions of the Skin (SAP 2a) • Skin Structure (SAP 2a) 	<ul style="list-style-type: none"> • Central Nervous System (SAP 3b, c) <ul style="list-style-type: none"> ○ Brain Anatomy ○ Protection of the CNS ○ Brain Injuries ○ Spinal Cord 	<ul style="list-style-type: none"> • Blood Vessels (SAP 4a, b) <ul style="list-style-type: none"> ○ Blood Vessel Anatomy (Microscopic, Gross Anatomy) ○ Circulation Physiology • Development of the Cardiovascular System (SAP 4a, b) 	Reproductive System (SAP 5) <ul style="list-style-type: none"> • Male Reproductive System (SAP 5a) • Male Reproductive Functions (SAP 5a) • Female Reproductive System (SAP 5a) • Female Reproductive Functions (SAP 5a)
Week 7	<ul style="list-style-type: none"> • How to determine skin color (SAP 2a) • Homeostatic Imbalances (SAP 2a) • Development of the Skin (SAP 2a) 	<ul style="list-style-type: none"> • Peripheral Nervous System (SAP 3b, c) <ul style="list-style-type: none"> ○ Nerve Structure ○ Cranial Nerves ○ Spinal Nerves ○ Autonomic Nervous System • Developmental Aspects of the Nervous System (SAP 3) 	Respiratory System (SAP 4) <ul style="list-style-type: none"> • Anatomy of the Respiratory System (SAP 4 b) • Physiology of the Respiratory System (SAP 4a, b) <ul style="list-style-type: none"> ○ Breathing ○ External Respiration ○ Control of Respiration 	<ul style="list-style-type: none"> • Reproductive Development (SAP 5b, c) <ul style="list-style-type: none"> ○ Menstrual Cycle ○ Pregnancy ○ Embryological Development • Stages of Development (SAP c)
Week 8	Skeletal System (SAP 2) <ul style="list-style-type: none"> • Functions of the Bones (SAP 2b) • Classification of the Bones (SAP 2b) 	Special Senses (SAP 3) <ul style="list-style-type: none"> • Eye and Vision (SAP 3a) • Ear: Hearing and Balance (SAP 3a) • Chemical Senses (SAP 3a) 	<ul style="list-style-type: none"> • Complete Physiology • Respiratory Disorders (SAP 4 a, b, d) • Development of the Respiratory System 	Fetal Pig Dissection (SAP 1, 2, 3, 4, 5)

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	<ul style="list-style-type: none"> • Structure of a long bone (SAP 2b) <ul style="list-style-type: none"> ○ Gross Anatomy ○ Cell Structure • Bone Growth/Repair (SAP 2b) 			
Week 9	<ul style="list-style-type: none"> • Axial Skeleton (SAP 2b) <ul style="list-style-type: none"> ○ Skull ○ Vertebral Column ○ Thorax • Appendicular Skeleton (SAP 2b) <ul style="list-style-type: none"> ○ Shoulder ○ Upper limbs ○ Pelvis ○ Lower limbs 	Review and Midterm/Benchmark test	Lymphatic/Immune System (SAP 4) <ul style="list-style-type: none"> • Structure of the lymphatic system (SAP 4 a, d) • Nonspecific body defenses (SAP 4a, d) • Specific Body Defenses (SAP 4a, d) 	Review and Final Exams (Senior Final Exams may start during Week 8)