



Correlation of Introduction to Anatomy and Physiology (Goodheart-Willcox Publisher ©2024)

to

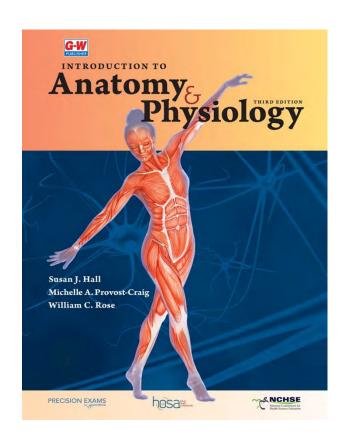
NCHSE 2020 Curriculum Framework Human Structure, Function, and Disease (A)

Goodheart-Willcox is pleased to partner with Precision Exams by correlating *Introduction to Anatomy and Physiology* to their Anatomy and Physiology standards. Precision Exams standards and Career Skills Exams were created in concert with industry and subject matter experts to match realworld job skills and marketplace demands. Students that pass the exam and performance portion of the exam can earn a Career Skills Certification.

The correlation chart below lists the standards, objectives, and indicators for the Anatomy and Physiology exam in the left column. Corresponding content from *Introduction to Anatomy and Physiology* that can be used by a student to help achieve the standard, objective, or indicator is listed in the right column.

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Standards / Objectives / Indicators	Textbook Pages	
1.0 Medical Terminology		
Demonstrate methods of delivering and obtaining information, while communicating effectively.		
1.1 Use common roots, prefixes, and suffixes to communicate information regarding body systems, diseases and disorders.	2, 5, 48, 49, 55, 83, 85, 102, 161, 214, 289, 328, 485, 488, 492, 498, 543, 551, 578, 582, 596, 626	
1.2 Interpret common medical abbreviations	279, 390, 480, 666	
2.0 Anatomy and Physiology		
Understand human anatomy, physiology, common diseases and disorders, and medical math principles.		

Correlation of *Introduction to Anatomy & Physiology* to Precision Exams by YouScience Human Structure, Function, and Disease (A) Curriculum—page 2

Standards / Objectives / Indicators	Textbook Pages
2.1 Identify basic levels of organization of the human body	
• Chemical	48-59
• Cellular	61-75
• Tissue	76-87
 Organs 	8
Systems	4-5, 12
Organism	12-15
2.2 Identify body planes, directional terms, cavities, and	
quadrants.	
 Body planes (sagittal, mid-sagittal, coronal/frontal, 	6-7, 11
transverse/horizontal)	
 Directional terms (superior, inferior, 	7
anterior/ventral, posterior/dorsal, medial, lateral,	
proximal, distal, superficial, and deep)	
 cavities (dorsal, cranial, orbital, nasal, oral, spinal, 	
thoracic, abdominal, and pelvic)	8
 Quadrants (upper right, lower right, upper left, and 	
lower left)	7
2.3 Investigate the process of homeostasis.	15-18, 19, 41, 42, 64, 93, 109, 110, 133, 168, 214,
	233, 258, 296-297, 321-323, 324, 325, 330-331,
	334, 338, 352, 396, 399, 432, 550, 553, 574, 587
2.4 Skeletal System	130-183
2.4.1 Structures of the skeletal system	142-160
Distinguish between axial and appendicular	142, 152
skeletons	425 440 452 455 457 450
Describe long bone anatomy	135-140, 153-155, 157-158
Identify joint types and movement	161-162
Name and classify all bones (206) 2.4.2 Supplies a fall and a state of the selection	142-160
2.4.2 Functions of the skeletal system	132-137
Structure and support	132-133
Muscle attachment and movement Minaral starses.	163, 201-203
Mineral storage	133
Hematopoiesis Ossification	133
Ossification 2 F Muscular System	137–138
2.5 Muscular System	184-229
2.5.1 Structures of the muscular system	186-191, 201-211
Identify types of muscle tissue Identify major muscle groups of pack shoulder Identify major muscle groups of pack shoulder Identify major muscle groups of pack shoulder Identify types of muscle tissue	186-188
Identify major muscle groups of neck, shoulder, short, and man, hack, arms and logs.	203-211
chest, abdomen, back, arms and legs	196 199 100
2.5.2 Functions of the muscular system	186, 188-190 186, 189-190
Body movementPosture	186, 189-190
ProstureProtection	186, 204, 214
2.6 Integumentary System	96-129
2.6.1 Structures of the integumentary system	101-105
Identify integumentary components	
 Identify integumentary components Label the layers of skin 	101-105 103, 104
Label tile layers of Skill	103, 104

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Standards / Objectives / Indicators	Textbook Pages
2.6.2 Functions of the integumentary system	101-102
Vitamin D production	102
Sensory organ	102
Infection protection	102
Temperature regulation	101
UV light protection	102
2.7 Cardiovascular System	394-481
2.7.1 Structures of the cardiovascular system	432-435, 446-455
 Identify cardiovascular organs 	432
 Label the parts of the heart 	432-435
 Distinguish blood components 	397-407
2.7.2 Functions of the cardiovascular system	432
 Blood flow through the heart and body 	435-436, 446-455
 Transportation of nutrients, waste, antibodies, 	432
hormones, and gases	
Cardiac conduction system	442, 443-444
2.8 Lymphatic/Immune System	482-527
2.8.1 Structures of the lymphatic system	484-493
Identify lymphatic organs	490-491
2.8.2 Functions of the lymphatic system	484-502
Provides protection against disease	494-511
Movement of lymph fluid	484-488
2.9 Respiratory System	356-393
2.9.1 Structures of the respiratory system	358-365
Identify respiratory organs	358-365
2.9.2 Functions of the respiratory system	366-374 366-370
Gas exchange 3.0 Diseases and Disorders	300-370
(Skeletal, Muscular, Integumentary, Cardiovascular, Lymphatic, Re	espiratory)
3.1 Describe etiology, pathology, diagnosis, treatment, and	The last lesson in Chapters 3, 4, 5, 9, 10, 11, and
prevention of common diseases and disorders, including, but	12 contains detailed tables that address each of
not limited to the following:	these aspects of diseases and disorders.]
Arthritis	171, 173
Asthma	379, 381-382
• Cancer	120-121, 170, 383-384, 420-422, 512-514, 515
	262-265
Cystic Fibrosis	356, 373, 384
Melanoma	120-121, 122
Muscular Dystrophy	218-219
Myocardial Infarction	468, 469, 470-471, 480, 481
 Stroke/Cardiovascular Accident (CVA) 	250, 470, 472
 Tuberculosis 	378
3.2 Discuss research related to emerging diseases and disorders	50, 71, 114, 346, 376, 377, 382, 420, 491, 515,
(such as: autism, VRSI, PTSD, Listeria, seasonal flu)	519, 648, 649, 650
3.3 Describe biomedical therapies as they relate to prevention,	81
pathology, and treatment of disease.	
Gene editing	81
Gene testing	384, 558
Gene therapy	57, 384
• Immunizations	69
Immunotherapy Stam cell research	384, 419, 513, 516
Stem cell research One disclarate assetting	648
4.0 Medical Mathematics	

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Standards / Objectives / Indicators	Textbook Pages
4.1 Demonstrate competency using basic math skills and	9-10, 660-661
mathematical conversions as they relate to Healthcare.	
4.2 Demonstrate the ability to analyze diagrams, charts, graphs,	28-29, 44, 94–95, 228, 278, 314-315, 354, 392,
and tables to interpret healthcare results.	414, 428-429, 480-481, 526, 571, 608, 609, 641,
	658