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Correlation of

Introduction to Anatomy and Physiology

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to

NCHSE 2020 Curriculum Framework

Human Structure, Function, and Disease (B)

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 real-world 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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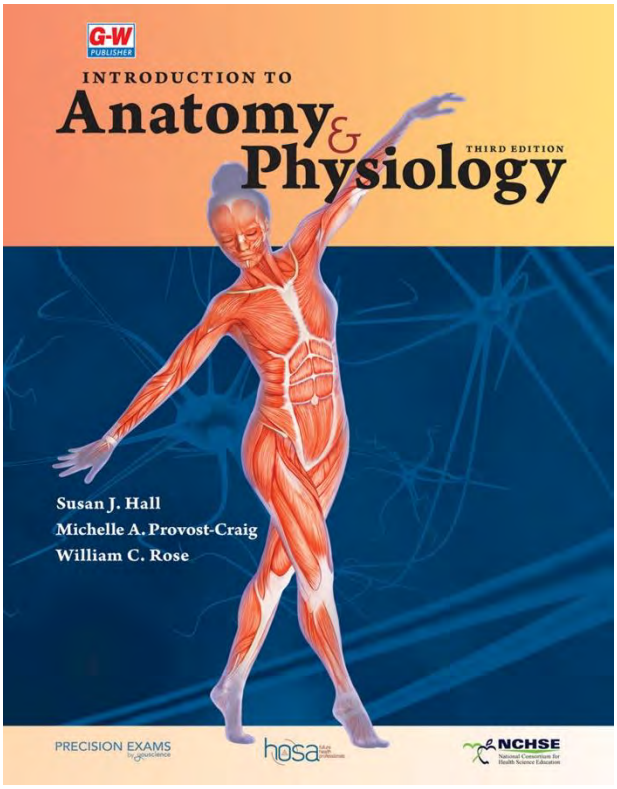

Standards / Objectives / Indicators	**Textbook Pages**
1.0 Medical Terminology Demonstrate methods of delivering and obtaining information, while communicating effectively.	
1.1 Use common roots, prefixes, and suffixes to communicate information regarding body systems, diseases and disorders.	2, 5, 48, 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.	
2.1 Nervous System	230-279

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

Standards / Objectives / Indicators	Textbook Pages
2.1.1 Structures of the nervous system	232-237
• Identify organs of the nervous system	232-237
• Identify structures of the special sense organs	256-258, 282-285, 293-295, 302-304, 306
• Differentiate CNS and PNS	232-233, 245-261
• Differentiate sympathetic and parasympathetic	260
2.1.2 Functions of the nervous system	232, 238-244
• Sensation	232
• Movement	232
• Processing	232
2.2 Endocrine System	316-355
2.2.1 Structures of the endocrine system	318-319, 325-337
• Identify endocrine glands	318-319, 325-337
2.2.2 Functions of the endocrine system	316-324
• Production of hormones	320-322, 325-336
• Regulation of body processes	318, 322-323, 325-336
• Controls metabolism	316, 325, 329-331
• Regulates growth, development and maturation	317, 319, 321, 326-328, 330, 335
2.3 Digestive System	528-571
2.3.1 Structures of the digestive system	539-556
• Identify digestive organs in sequence	541-555
• Differentiate between alimentary and accessory organs	537
2.3.2 Functions of the digestive system	537-539
• Chemical and mechanical digestion	538, 541-553
• Absorption of nutrients	538, 549, 553-554
• Excretion of waste	538, 554-555
2.4 Urinary System	572-609
2.4.1 Structures of the urinary system	573, 574-578, 588-591
• Identify urinary organs	573
• Identify gross and microscopic anatomy of the kidney	574-578
2.4.2 Functions of the urinary system	580-591
• Process of urine formation	580-588
• Urine composition	594
• Homeostatic balance	587
2.5 Reproductive System	610-658
2.5.1 Structures of the reproductive system	618-620, 623-627
Identify female reproductive organs	623-627
Identify male reproductive organs	618-620
2.5.2 Functions of the reproductive system	621, 627-631
Formation of gametes	619-620, 623
Production of hormones	615-616, 623, 627, 628-631, 639
3.0 Diseases and Disorders (Nervous, Endocrine, Digestive, Urinary, Reproductive)	

Standards / Objectives / Indicators	**Textbook Pages**
3.1 Describe etiology, pathology, diagnosis, treatment, and prevention of common diseases and disorders, including, but not limited to the following:	[The last lesson in Chapters 6, 7, 8, 13, 14, and 15 contains detailed tables that address each of these aspects of diseases and disorders.]
• Bipolar disorder	
• Cancer	71, 73-74, 114-115, 563-564, 595, 647-650
• Cataracts	290
• Concussion/Traumatic Brain Injury (TBI)	262-265
• Diabetes	344-346, 516-517, 593, 595, 596-598
• Dementia	269
• Gastric ulcer	558, 559
• Hepatitis	551, 561-562
• Sexually Transmitted Infection (STI)	115, 644-646
• Urinary Tract Infection (UTI)	593-594, 601-602
4.0 Information Technology in Healthcare Apply information technology practices common across health professions.	
4.1 Key Principles, components and practices of Health Information Systems	
4.1.1 Identify components of an electronic health record (EHR) and/or electronic medical record (EMR). • Diagnostic tests • History and physical • medications • Patient demographics • Progress notes • Treatment plan	36, 461 Note: For additional content related to this standard, see Goodheart-Willcox's nursing assistant programs: The Nursing Assistant: Essentials of Holistic Care and The Nursing Assistant: Essentials of Holistic Care, Brief Edition.
4.1.2 Explore different types of health data collection tools.	
• Medical wearable devices	36, 81
• Patient monitoring equipment	36, 596
• Phone application	36
4.1.3 Create electronic documentation that reflects timeliness, completeness, and accuracy.	For content related to this standard, see Goodheart-Willcox's nursing assistant programs: The Nursing Assistant: Essentials of Holistic Care and The Nursing Assistant: Essentials of Holistic Care, Brief Edition.
4.1.4 Adhere to information systems policies, procedures, and regulations as required by national, state, and local entities	For content related to this standard, see Goodheart-Willcox's nursing assistant programs: The Nursing Assistant: Essentials of Holistic Care and The Nursing Assistant: Essentials of Holistic Care, Brief Edition.
5.0 Medical Mathematics Apply information technology practices common across health professions.	
5.1 Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare.	9-10, 660-661
5.2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results.	28-29, 44, 94–95, 228, 278, 314-315, 354, 392, 414, 428-429, 480-481, 526, 571, 608, 609, 641, 658