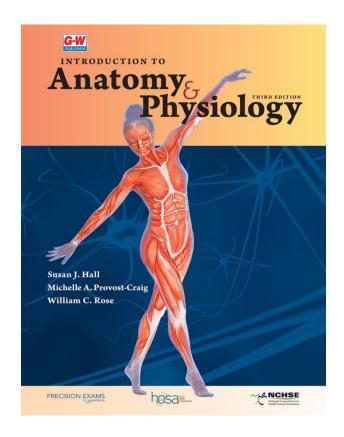


Correlation of Introduction to Anatomy and Physiology (Goodheart-Willcox Publisher ©2024)

to

Oklahoma Department of Career and Technology Education Anatomy and Physiology Standards (2005)

Introduction to Anatomy and Physiology covers all body systems using a student-friendly writing style that makes complex subjects easier to understand. Written specifically for the high school market, the chapters in this textbook are divided into lessons, providing content in a manageable format for the student. To add realism, clinical case studies and real-world applications enhance student interest and involvement. An abundance of study aids, such as learning objectives, lesson summaries, and extensive assessment opportunities increase students' ability to succeed in this challenging course.



Standards / Objectives / Indicators	Textbook Pages	
I. Organization of the Body		
I.A. Define and explain how anatomy and physiology are related.	4	
I.B. Name and explain the relationship between levels of structural organization that make up the human body.	4-5, 8, 12-15, 48-59, 61-75, 76-87	
I.C. Identify and state the major functions of the organ systems of the body.	12-15	
I.D. Properly use the terms that describe relative positions, body sections, and body regions.	5-9	
I.E. Describe the functions of the human body and explain how these functions aid in the maintenance of life.	4-5	
I.F. Develop an understanding of homeostasis and its role in normal body function.	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	

Standards / Objectives / Indicators	Textbook Pages	
I. Activities/Labs—Organization of the Body		
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directions, regions, and planes.	11	
I.b. Interpret a biological model	11	
I.c. Analyze and formulate treatments and outcomes from real- world case studies		
II. Chemical Basis for Life		
II.A. Explain how the study of living materials requires understanding	15-18, 48	
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II.B. Describe the relationships among matter, atoms, and	12	
molecules.		
II.C. Identify three major types of chemical reactions that occur in	15-18, 61-71	
the body		
II.D. Differentiate between a salt, an acid, and a base	59	
II.E. Describe factors that affect chemical reaction rates	52	
II.F. Compare the processes of osmosis, diffusion, filtration and give	62-64, 75, 77, 576, 580-586, 592, 636-637,	
examples of their uses in the body	641	
II.G. Explain the concept of pH, and its affect on body functions	59	
II.H. Explain the importance of water and salts to body homeostasis	16, 17, 59	
II.I. Distinguish between organic and inorganic compounds	48	
II.J. Compare the structures and functions of carbohydrates, lipids,	sweat	
proteins, and nucleic acids		
II.K. Distinguish between different types of proteins	51-52	
II.L. Describe how and where enzymes work in the body	52	
II.M. Compare and contrast the structure and functions of DNA and RNA	56-57	
II. Activities/Labs—Chemical Basis for Life		
II.a. Investigations with enzymes that illustrate criteria for their		
proper function		
II.b. Case study exercises in which students formulate	18	
explanations and design controlled experimental procedure to		
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II.d. Inquiry activities that investigate pH range	60, 603	
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III A Identify on a cell model or diagram the cell organilles	62, 93	
III.A. Identify on a cell model or diagram the cell organelles	,	
and be able to explain their functions		
III.B. Describe the structure of the plasma membrane, and	61-63	
explain how the various transport processes account for the		
directional movements of specific substances across the		
plasma membrane		
'	76-86	
III.C. Describe different cell types and explain the functionality	70-00	
of the differences		
III.D. Describe the cell cycle, including the phases of mitosis	71-74	
and explain how the timing of cell division is regulated.		
and explain how the tilling of cell division is regulated.		

Standards / Objectives / Indicators	Textbook Pages
III.E. Have an understanding of stem cells and how they are used in modern medical procedures and research	85, 402, 415, 416, 419, 420, 422, 423, 648
III.F. Name the four primary classes of human tissues and explain how they differ structurally and functionally	76-86
III.G. Know the anatomical location of the different tissue types	76-86
III.H. Describe ways the body repairs damaged tissue	86
III.I. Identify the various forms of cancer and describe how it affects the body	71, 73-74, 114-115, 120-121, 170, 383-384, 420-422, 512-514, 515, 563-564, 595, 647-650
III. Activities/Labs—Cells and Tissues	
III.a. Osmosis and diffusion investigations	75, 592, 641
III.b. Microscope labs with either prepared or student-made cell and tissue slides	75, 87, 95, 109, 129, 617, 651
III.c. Case study exercises in which students formulate explanations and design controlled experimental procedure to resolve real-world dilemmas	37
III.d. Multimedia that enables students to visualize what occurs in the body microscopically	93, 355
IV. Integumentary System	
IV.A. Have an understanding of the functions of the skin and be able to relate them to its structure	101-108
IV.B. Recognize and identify the major skin structures when provided a diagram or model	103, 128
IV.C. Identify and know the purpose of the accessory structures of the skin	105-108
IV.D. Describe the normal and pathological colors that the skin can have and explain their causes	108
IV.E. Identify and differentiate between the three types of skin cancer	120-121
IV.F. Describe the three classes of burns and the priorities in burn treatment	111-112
IV.G. Understand the role of the Integumentary System in maintaining homeostasis	109, 110
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V.C. Demonstrate knowledge, with the use of models or pictures, the major bones, their surface features, and basic functions	151, 160

Standards / Objectives / Indicators	Textbook Pages
V.D. Describe the developmental aspects of the skeleton from formation in the fetus throughout the lifetime of the bones	137-138
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V.F. Be able to identify and understand the function of tendons and	163
ligaments V.G. Understand the causes and current medical treatments of	105 175
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VI.A. Distinguish between the three types of muscles, and tell where	186-188
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VI.B. Describe the structure of a skeletal muscle with respect to	192-196
location and names of its connective tissue coverings and	
attachments	
VI.C. Describe the microscopic structure and functional role of the	195-196
skeletal muscle fiber	405 407
VI.D. Explain how muscle fibers are stimulated to contract and what	195-197
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VI.E. Explain how skeletal muscle fibers are innervated and how they	192-194
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