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Correlation of Book Introduction to Health Anatomy Physiology ©2021 to South Carolina Department of Education

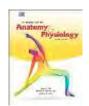
Course: Health Science - 5552 Human Structure, Function, And Disease (Grades 9-12)



Stan	dards	orrelating Text Pages	
Foundation 1: Academic Foundations Healthcare professionals will understand human anatomy, physiology, common diseases and disorders, and medical math principles as required for proficiency within their area. They will use this knowledge as needed in their role. The following accountability criteria are considered essential for students in a health science program of study.			
1.	Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results.	38, 86, 119, 170, 214, 260, 296-297, 336, 374, 410, 460, 506, 549, 586, 636	
2.	Demonstrate competency in basic math skills and conversions as they relate to healthcare.	38, 86, 119, 170, 214, 260, 296-297, 336, 374, 410, 460, 506, 549, 586, 636, 638-639	
	a. The Metric System , (i.e., centi-, milli-, kilo-, deci-, and micro-)	9-10, 9, (Mathematics in Science and Medicine), 10, (Check Your Understanding #1-3), (Figure 1-7 Rules for Constructing Tables and Graphs), 11 (In the Lab #12-14), 637, (Metric-English Conversion Factors)	
	 Mathematical (average, ratios, fractions, percentages, addition, subtraction, multiplication, division). 	638-639, 638 (Basic Mathematical Operations), 639 (Fractions)	
	 Conversions (height, weight/mass, length, volume, temperature, household measurements) 	10, (Check Your Understanding #1-3), (Figure1-7 Rules for Constructing Tables and Graphs) 637, (Metric-English Conversion Factors)	
	 d. Perform mathematical applications to determine vital sign applications and basic pharmacology equations. 	114 (Career Corner)	
3.	Demonstrate use of the 24-hour clock/military time.	587, (Figure14.21 Use military time and metric quantities), 618 (Analyze and Apply #10)	
4.	Identify basic levels of organization of the human body, i.e., chemical, cellular, tissue, organs, systems, organism.	Organ System, 12-15 (Structural and Functional Organization of the Body), (Check Your Understanding), Tissue,69-79, 77 Life Span Development: (Cells and tissue)	
5.	Identify and demonstrate body planes, directional terms, cavities, and quadrants.	5-9, 5 (Describing the Human Body), (Memory Tip) (Figure 1.1 The anatomical reference position), 6 (Figure1.2 Movement terminology. A—Sagittal plane movements. B—Frontal plane movements. C—Transverse plane movements), 7 (Common Directional Terms for Anatomy Figure 1.3), (Quadrants and Regions-Regions of the Body),	



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Stan	dards	orrelating Text Pages
		(Figure 1.4), 8, Cavities, (Figure 1.6), 9,
		(Mathematics in Science and Medicine)
	a. Body planes (sagittal, mid-sagittal,	5-7, 5 (Describing the Human Body), (Memory Tip)
	coronal/frontal, transverse/horizontal).	(Figure 1.1 The anatomical reference position), 6
	·	(Figure 1.2 Movement terminology. A—Sagittal
		plane movements. B—Frontal plane movements.
		C—Transverse plane movements), 7 (Common
		Directional Terms for Anatomy Figure 1.3),
		(Quadrants and Regions-Regions of the Body),
		(Figure 1.4)
	b. Directional terms (superior, inferior,	5-7, 5 (Describing the Human Body), (Memory Tip)
	anterior/ventral, posterior/dorsal, medial,	(Figure 1.1 The anatomical reference position), 6
	lateral, proximal, distal, superficial, and	(Figure 1.2 Movement terminology. A—Sagittal
	deep).	plane movements. B—Frontal plane movements.
		C—Transverse plane movements), 7 (Common
		Directional Terms for Anatomy Figure 1.3),
		(Quadrants and Regions-Regions of the Body),
		(Figure 1.4)
	c. Cavities (dorsal, cranial, spinal, thoracic,	5-9, 5 (Describing the Human Body), (Memory Tip)
	abdominal, and pelvic).	(Figure 1.1 The anatomical reference position), 6
		(Figure1.2 Movement terminology. A—Sagittal
		plane movements. B—Frontal plane movements.
		C—Transverse plane movements), 7 (Common
		Directional Terms for Anatomy Figure 1.3),
		(Quadrants and Regions-Regions of the Body),
		(Figure 1.4), 8, Cavities, (Figure 1.6), 9,
		(Mathematics in Science and Medicine)
	d. Quadrants (upper right, lower right, upper	7-8, 7 (Common Directional Terms for Anatomy
	left, and lower left).	Figure 1.3), (Quadrants and Regions-Regions of the
		Body,) (Figure 1.4), 8, Cavities, (Figure 1.6)
	Identify basic structures and functions of human	12-15, Organ System, 12 (Structural and Functional
	body systems (skeletal, muscular, integumentary, cardiovascular, lymphatic, respiratory, nervous,	Organization of the Body), (Check Your Understanding), 13 (Figure 1.8 The organ systems of
6.	special senses, endocrine, digestive, urinary, and	the body.), 15 (Figure 1.9 The Human Organ
	reproductive).	Systems), (Figure 1.10 Sweating during vigorous
		exercise helps to cool the body.)
		Skeletal System, 120-171, 317, Functions of, 122-
	a. Skeletal (bone anatomy with emphasis on	123, Structures And Classifications of, 123-130,
	long bone, axial and appendicular skeletal	Remodeling of, 130, Skull, 132-135, Vertebral
	bones, functions of bones to include	Column, 135-140, Thoracic Cage, 140, Upper
	mineral storage and hematopoiesis,	Extremity of Appendicular, 142-146, Lower
	ligaments, types and movements of joints)	Extremity of Appendicular, 146-149, Immovable
		Joints, 151, Slightly Movable Joints, 151-152, Freely

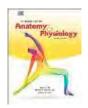


Web www.g-w.com Orders 800.323.0440 Phone 708.687.5000 Fax 708.687.5068 Anatomy
Physiology

Standards	C	orrelating Text Pages
		Movable Joints, 152-153, Articular Tissues, 153,
		Joint Injuries, 160-161, Aging Effects on, 317
b.	Muscular (microscopic anatomy of muscle	Muscular System, 77-78, 172-215, 264-265,
	tissue, types of muscle, locations of skeletal	Overview, 77-78, Skeletal Muscle,174, Smooth
	muscles, functions of muscles, tendons,	Muscle, 174-176, Functions Of, 176-178, Cardiac
	directional movements)	Muscle, 176, Extrinsic Muscles Of Eyes, 264-265
	Integumentary (layers, structures, functions	Integumentary System, 93-112
C.	and components of skin)	Function, 93-94, Skin Anatomy, 94-97, Skin
	and components of skinj	Appendages, 97-99
d.	Cardiovascular (components of blood,	Cardiovascular System, 412-461, Blood Vessels In,
	structures and functions of blood	427-430, Pulmonary Circulation In, 430, Systemic
	components, structures and functions of the	Circulation In, 430-436, Fetal Circulation In, 436,
	cardiovascular system, conduction system of	Vital Signs Measurement, 437-439, Weight And BMI
	the heart, cardiac cycle to include blood	Measurement, 440, Dysrhythmias In, 443-445
	flow)	
e.	Lymphatic (structures and functions of	Lymphatic System , Organization, 464-468, Cells,
	lymphatic system, movement of lymph fluid)	Tissues, and Organs, 468-472, Cancer and Lymph
		Nodes, 492-494
		Respiratory System, 70, 338-375, Overview, 70,
f.	Respiratory (structures and functions of	Upper Respiratory Tract, 340-344, Lower
	respiratory system, physiology of	Respiratory Tract, 344-346
	respiration)	Respiration Process, 348-350, Breathing Control,
		350-352, Lung Volume, 352-355, Lower Respiratory
		Tract Diseases, 359-360
g.	Nervous (structures and functions of	Nervous System, 216-261, Organization, 218-219,
	nervous tissue and system, organization of	Neurons, 220-221, Action Potentials, 224-225,
	nervous system, emphasis on sensation,	Brain, 230-236, Cranial Nerves, 238-240, Spinal
	movement and processing)	Cord, 236, Autonomic, 241-244
h.	Special Senses (structures and functions of	Sensory Systems, 262-297, Ear, 275-282, Eye,
	eye, ear, nose and tongue; Identify senses	Anatomy of, 264-273, Smell, Anatomy And
	for sight, hearing, smell, taste, touch).	Physiology of, 284-287, Taste, Disorders of Tongue,
		288-290 Endocring System 209 227 424 521 522
		Endocrine System, 298-337, 424, 531-532,
	Endocrino (andocrino varcus avacrino	Anatomy Of, 300-301, Hormones Of, 301-305, Hypothalamus, 307, Pituitary Gland, 307-311,
i.	Endocrine (endocrine versus exocrine, structures and functions of endocrine	Thyroid Gland, 311-312, Parathyroid Gland, 312-
	system, hormones, regulation of hormones)	313, Adrenal Gland, 313-315, Pineal Gland, 316,
	system, normones, regulation of normones)	Thymus, 316, Gonads, 317, Pancreas, 315-316, 326-
		328, Heart Rate Affected By, 424
j.	Digestive (structures and functions of	Digestive System
] J.	gastrointestinal tract with focus on	Activities of, 516-518, GI Tract, 518-520, Esophagus,
	absorption and excretion, chemical and	524, Stomach, 524-526, Small Intestine, 526-528,
	absorption and excretion, theimtal and	327, 3tomach, 324-320, 3mail intestine, 320-320,



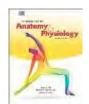
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Stan	dards	orrelating Text Pages
	mechanical digestion, structures and functions of accessory organs)	Liver And Gallbladder, 528-531, Large Intestine, 532-533
	k. Urinary (structures and functions of urinary system, gross and microscopic anatomy, process of urine formation, urine composition, homeostatic balance)	Urinary System, 70, 550-587, Overview, 70, Diabetes Impact, 573-576, Fetal Development, 569, Kidney, 552-556, 577, 578, Urine Formation, 558- 565, Urine Storage, 565-567, Renal Function Assessment, 571-573
	 Reproductive (structures and functions of male and female reproductive systems, formation of gametes, hormone production and effects, menstrual cycle, and conception) 	Reproductive System, Reproductive Process, 590, Mitosis Versus Meiosis, 591-593, Development And Puberty, 593-594, Anatomy of Male, 596-598, Physiology of Male, 599, Anatomy of Female, 601-605, Physiology of Female, 605-609 Fertilization, 611-612, Pregnancy, 612-615, Childbirth, 616, Lactation, 616-617, Infertility, 620-622
7.	Describe common diseases and disorders of each body system (such as: cancer, diabetes, dementia, stroke, heart disease, tuberculosis, hepatitis, COPD, kidney disease, arthritis, ulcers, asthma, cataracts, concussions/TBI, cystic fibrosis, melanoma, muscular dystrophy, myocardial infarction, sexually transmitted infection, urinary tract infections).	101-113, 101 (Clinical Case Study), 103 (Check Your Understanding), 111, (Cancer of the Skin), 155-163,200-207, 200 (Clinical Case Study), 202, (Check Your Understanding), 245-253, 252 (Dementia), 268-273, 279-282, 286-287, 289-290, 320-329, 326, (Diabetes Mellitus), 326, 357-367, 360, (COPD-Chronic obstructive pulmonary disease), 395-405, 442-453, 448, (Myocardial Infarction), 492-499, 536-543, 571-581, 620-629, 622 (STIs (Sexually Transmitted Infections)
	a. Etiology	101-113, 101 (Clinical Case Study), 103 (Check Your Understanding), 111, (Cancer of the Skin), 155-163, 200-207, 200 (Clinical Case Study), 202, (Check Your Understanding), 245-253, 252 (Dementia), 268-273, 279-282, 286-287, 289-290, 320-329, 326, (Diabetes Mellitus), 326, 357-367, 360, (COPD), 395-405, 442-453, 448, (Myocardial Infarction), 492-499, 536-543, 571-581, 620-629, 622 (STIs (Sexually Transmitted Infections)
	b. Pathology	101-113, 101 (Clinical Case Study), 103 (Check Your Understanding), 111, (Cancer of the Skin), 155-163, 200-207, 200 (Clinical Case Study), 202, (Check Your Understanding), 245-253, 252 (Dementia), 268-273, 279-282, 286-287, 289-290, 320-329, 326, (Diabetes Mellitus), 326, 357-367, 360, (COPD-Chronic obstructive pulmonary disease)395-405, 442-453, 448, (Myocardial Infarction), 492-499, 536-543, 571-581, 620-629, 622 (STIs (Sexually Transmitted Infections)



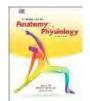
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Standards	orrelating Text Pages
c. Diagnosis	101-113, 101 (Clinical Case Study), 103 (Check Your Understanding), 111, (Cancer of the Skin), 155-163, 200-207, 200 (Clinical Case Study), 202, (Check Your Understanding), 245-253, 252 (Dementia), 268-273, 279-282, 286-287, 289-290, 320-329, 326, (Diabetes Mellitus), 326, 357-367, 360, (COPD-Chronic obstructive pulmonary disease)395-405, 442-453, 448, (Myocardial Infarction), 492-499, 536-543, 571-581, 620-629, 622 (STIs (Sexually Transmitted Infections)
d. Treatment	101-113, 101 (Clinical Case Study), 103 (Check Your Understanding), 111, (Cancer of the Skin), 155-163, 200-207, 200 (Clinical Case Study), 202, (Check Your Understanding), 245-253, 252 (Dementia), 268-273, 279-282, 286-287, 289-290, 320-329, 326, (Diabetes Mellitus), 326, 357-367, 360, (COPD-Chronic obstructive pulmonary disease)395-405, 442-453, 448, (Myocardial Infarction), 492-499, 536-543, 571-581, 620-629, 622 (STIs (Sexually Transmitted Infections)
e. Prevention	101-113, 101 (Clinical Case Study), 103 (Check Your Understanding), 111, (Cancer of the Skin), 155-163, 200-207, 200 (Clinical Case Study), 202, (Check Your Understanding), 245-253, 252 (Dementia),268-273, 279-282, 286-287, 289-290, 320-329, 326, (Diabetes Mellitus), 326, 357-367, 360, (COPD-Chronic obstructive pulmonary disease)395-405, 442-453, 448, (Myocardial Infarction), 492-499, 536-543, 571-581, 620-629, 622 (STIs (Sexually Transmitted Infections)
8. Discuss research related to emerging diseases and disorders (such as: autism, VRSA, PTSD, Listeria, seasonal flu, coronavirus, SARS, MERS, Ebola, etc.).	497-499, 497, (Check Your Understanding #1, #2), 499, (In the Lab #17)
Describe biomedical therapies as they relate tothe prevention, pathology, and treatment of disease.	65, 235, 384, 402, 495, 626,
a. Gene testing	49-51, 50, Figure 2.10A DNA molecule, 51, Gene Therapy, 628, Taking It Further #1-3
b. Gene therapy	51, Gene Therapy, 628, Taking It Further #1-3
c. Cloning	495, 505, Think Critically #32
Foundation 2: Communications	



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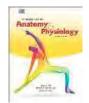
Sta	ndards	Correlating Text Pages
Hea	Ithcare professionals will know and demonstrate the	various methods of giving and obtaining information.
The	y will communicate effectively, both orally and in writ	ing
_	Use medical terminology and medical math to	5-9, 38, 86, 119, 170, 214, 260, 296-297, 336, 374,
1.	communicate information, orally and written.	410, 460, 506, 549, 586
		37-38, 87, 171, 214, 261, 297, 337, 374, 507, 549,
2.	Apply active speaking and listening skills	587, 636
ou	ndation 3: Systems	
lea	Ithcare professionals will understand how their role fi	ts into their department, their organization and the
ve	rall healthcare environment. They will review and idea	ntify how key systems affect services they perform and
he	quality of care.	
		32-33, 80-81, 114-115, 164-165, 208-209, 254-255,
1.	Health Care Delivery System	292-293, 330-331, 368-369, 406-407, 454-455, 500-
	, , , , , , , , , , , , , , , , , , , ,	501, 544-545, 582-583, 630-631
		32-33, 80-81, 114-115, 164-165, 208-209, 254-255,
2	Non-Profits	292-293, 330-331, 368-369, 406-407, 454-455, 500-
-		501, 544-545, 582-583, 630-631
		32-33, 80-81, 114-115, 164-165, 208-209, 254-255,
3.	Governmental Agencies	292-293, 330-331, 368-369, 406-407, 454-455, 500-
٠.	dovernmental Agencies	
		501, 544-545, 582-583, 630-631
		32-33, 80-81, 114-115, 164-165, 208-209, 254-255,
1.	Insurances	292-293, 330-331, 368-369, 406-407, 454-455, 500-
-		501, 544-545, 582-583, 630-631
	ndation 4: Employability Skills	
		ity skills enhance their employment opportunities and
ob	satisfaction. They will demonstrate key employability	skills and will maintain and upgrade skills, as needed.
	Demonstrate employability skills (as they apply to	32-33, 32 (Identifying the Right Job), (Planning for a
1.	hygiene, dress, language, confidentiality, behavior	Health-Related Career)
	and work ethic)	Treatti Nelatea careery
	Expand components of a personal portfolio (letter	
	of introduction, resume, healthcare project,	22 22 20 97 110 171 215 261 207 227 275
2.	writing sample, work-based learning, oral	32–33, 39, 87, 119, 171, 215, 261, 297, 337, 375,
	presentation, service learning, credentials,	411, 461, 507, 549, 587, 636
	technology, and leadership experience).	
	Participate in healthcare work-based learning	
	experiences (guest speakers, virtual tours, job	
3.	shadowing, blood drives, community service	31, (In The Lab #13-15)
	projects, etc.).	
011	ndation Standard 5: Legal Responsibilities	
	Ithcare professionals will understand the legal respon	sibilities limitations and implications of their actions
		· · · · · · · · · · · · · · · · · · ·
within the healthcare delivery setting. They will perform their duties according to regulations, policies, laws, and legislated rights of clients.		
ind		27 22 22 decumentation in healthcare
1.	Review procedures for accurate documentation and record keeping.	27, 32–33, 33 documentation, in healthcare professions, 51, 577, 623



and knowledge as appropriate.

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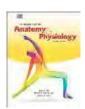


	ndards	Correlating Text Pages
2.	Review standards for Health Insurance Portability	22 (Chille and Dobertions for Hoolth care Drofessional)
۷.	and Accountability Act (HIPAA).	33 (Skills and Behaviors for Healthcare Professional)
Fou	ndation Standard 6: Ethics	
Hea	Ithcare professionals will understand accepted ethica	practices with respect to cultural, social, and ethnic
diffe	erences within the healthcare environment. They will	perform quality healthcare delivery.
1.	Discuss bioethical issues related to disease.	27, Ethical Issues In Research, 51, 337, 577
	Apply ethical behaviors in healthcare including	
2.	personal, professional, and organizational ethics.	577, 623
	Apply procedures for reporting activities and	
3.	behaviors that affect health, safety, and welfare of	27, Ethical Issues In Research, 119
	others.	
Fou	ndation Standard 7: Safety Practices	
Hea	Ithcare professionals will understand the existing and	potential hazards to clients, co-workers, and self.
The	y will prevent injury or illness through safe work pract	ices and follow health and safety policies and
prod	edures.	
	Demonstrate principles of infection control using	
	standard precautions in relation to the disease	475, Chain of Infection
1.	standard precautions in relation to the disease	175, 5114111 51 1111 5511511
1.	process and prevention.	
 2. 	·	27, Safety Issues In Research
2.	process and prevention.	·
2. Fou	process and prevention. Comply with safety signs, symbols and labels.	27, Safety Issues In Research
2. Fou	process and prevention. Comply with safety signs, symbols and labels. ndation Standard 8: Teamwork	27, Safety Issues In Research sponsibilities of individual members as part of
2. Fou Hea the	process and prevention. Comply with safety signs, symbols and labels. Indation Standard 8: Teamwork Ithcare professionals will understand the roles and research.	27, Safety Issues In Research sponsibilities of individual members as part of edelivery of quality healthcare. They will
2. Fou Hea	process and prevention. Comply with safety signs, symbols and labels. Indation Standard 8: Teamwork Ithcare professionals will understand the roles and reshealthcare team, including their ability to promote the	27, Safety Issues In Research sponsibilities of individual members as part of edelivery of quality healthcare. They will
2. Fou Hea the inte	process and prevention. Comply with safety signs, symbols and labels. Indation Standard 8: Teamwork Ithcare professionals will understand the roles and reshealthcare team, including their ability to promote the ract effectively and sensitively with all members of the	27, Safety Issues In Research sponsibilities of individual members as part of edelivery of quality healthcare. They will be healthcare team.
2. Fou Hea the inte 1. Fou	process and prevention. Comply with safety signs, symbols and labels. Indation Standard 8: Teamwork Ithcare professionals will understand the roles and respectively and sensitively with all members of the Act responsibly as a team member.	27, Safety Issues In Research sponsibilities of individual members as part of e delivery of quality healthcare. They will healthcare team. 33, 68, 115, 141, 331, 374, 453, 507, 636
2. Fou Hea the inte 1. Fou Hea	process and prevention. Comply with safety signs, symbols and labels. Indation Standard 8: Teamwork Ithcare professionals will understand the roles and respectively and sensitively with all members of the Act responsibly as a team member. Indation Standard 9: Health Maintenance Practices Ithcare professionals will understand the fundamental standard of the sensitive se	27, Safety Issues In Research sponsibilities of individual members as part of edelivery of quality healthcare. They will healthcare team. 33, 68, 115, 141, 331, 374, 453, 507, 636 entals of wellness and the prevention of
2. Fou Hea the inte 1. Fou Hea	process and prevention. Comply with safety signs, symbols and labels. Indation Standard 8: Teamwork Ithcare professionals will understand the roles and respectively and sensitively with all members of the Act responsibly as a team member. Indation Standard 9: Health Maintenance Practices Ithcare professionals will understand the fundamental processes. They will practice preventive health	27, Safety Issues In Research sponsibilities of individual members as part of edelivery of quality healthcare. They will healthcare team. 33, 68, 115, 141, 331, 374, 453, 507, 636 entals of wellness and the prevention of behaviors among the clients.
2. Fou Hea the inte 1. Fou Hea	process and prevention. Comply with safety signs, symbols and labels. Indation Standard 8: Teamwork Ithcare professionals will understand the roles and responsibly and sensitively with all members of the Act responsibly as a team member. Indation Standard 9: Health Maintenance Practices Ithcare professionals will understand the fundamentation standard 9: Health Maintenance Practices Ithcare professionals will understand the fundamentation standard 9: Health Maintenance Practices Ithcare professionals will understand the fundamentation standard 9: Health Maintenance Practices Ithcare professionals will understand the fundamentation standard 9: Health Maintenance Practices Ithcare professionals for prevention of diseases	27, Safety Issues In Research sponsibilities of individual members as part of edelivery of quality healthcare. They will healthcare team. 33, 68, 115, 141, 331, 374, 453, 507, 636 entals of wellness and the prevention of behaviors among the clients.
2. Fou Hea the inte 1. Fou Hea	process and prevention. Comply with safety signs, symbols and labels. Indation Standard 8: Teamwork Ithcare professionals will understand the roles and respectively and sensitively with all members of the Act responsibly as a team member. Indation Standard 9: Health Maintenance Practices Ithcare professionals will understand the fundamental processes. They will practice preventive health	27, Safety Issues In Research sponsibilities of individual members as part of edelivery of quality healthcare. They will healthcare team. 33, 68, 115, 141, 331, 374, 453, 507, 636 entals of wellness and the prevention of behaviors among the clients. 04, 107, 108, 109, 112, 156, 161, 201, 202, 205, 246, 250, 269, 272, 279, 286, 290, 292–293, 321, 322,
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