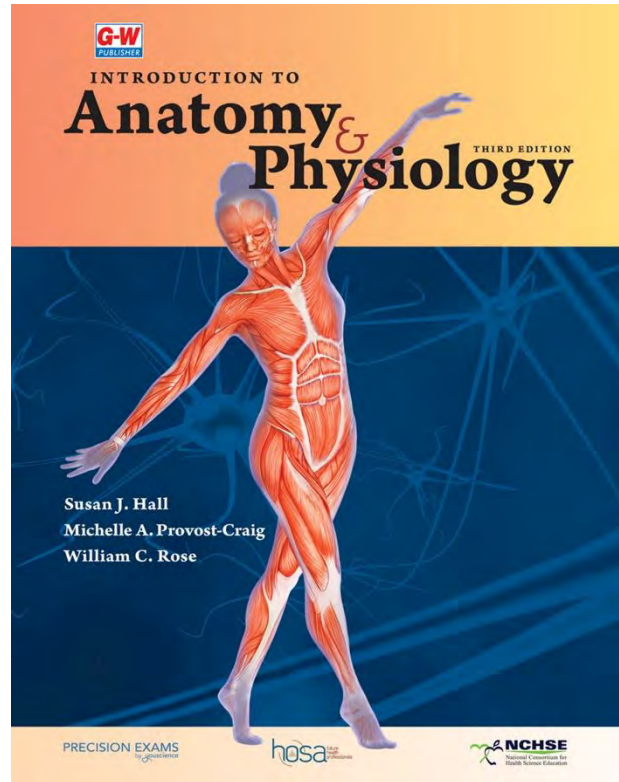




**Correlation of
Introduction to Anatomy and Physiology
(Goodheart-Willcox Publisher ©2024)
to
National Health Science Standards (NCHSE)**

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
Foundation Standard 1: Academic Foundation: Understand human anatomy, physiology, common diseases and disorders, and medical math principles.	
1.1 Human Anatomy and Physiology	
1.1.1: Describe the organization of the human body and directional terms.	5-9
1.1.1a. Identify Levels of Organization <ul style="list-style-type: none"> • Chemical • Cellular • Tissue • Organ • System • Organization 	48-59 61-75 76-87 8 4-5, 12 12-15
1.1.1b. Demonstrate anatomical position	5
1.1.1c. Identify body planes <ul style="list-style-type: none"> • Sagittal 	5

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Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> • Midsagittal • Coronal/Frontal • Transverse/Horizontal 	<p>11</p> <p>5-6</p> <p>6-7</p>
<p>1.1.1d. Use directional terms</p> <ul style="list-style-type: none"> • Anterior/Posterior • Medial/Lateral • Proximal/Distal • Superior/Inferior • Ventral/Dorsal • Cephalic/Caudal 	<p>7</p> <p>7</p> <p>7</p> <p>7</p> <p>7</p> <p>7</p>
<p>1.1.1e. Identify body cavities</p> <ul style="list-style-type: none"> • Abdominal • Cranial • Dorsal • Pelvic • Spinal • Thoracic • Orbital • Nasal • Oral 	<p>8</p> <p>8</p> <p>8</p> <p>8</p> <p>8</p> <p>8</p> <p>8</p> <p>8</p> <p>8</p>
<p>1.1.1f. Identify the components of the abdominal quadrants</p> <ul style="list-style-type: none"> • Right upper • Right lower • Left upper • Left lower 	<p>7</p> <p>7</p> <p>7</p> <p>7</p>
<p>1.1.2 Identify basic structures and describe functions of human body systems.</p>	<p>12-15</p>
<p>1.1.2a. Skeletal</p> <ul style="list-style-type: none"> • Structures of the skeletal system <ul style="list-style-type: none"> ○ Distinguish between axial and appendicular skeletons ○ Describe long bone anatomy ○ Identify joint types and movement ○ Name and classify all bones (206) 	<p>130-183</p> <p>142-160</p> <p>142, 152</p> <p>135-140, 153-155, 157-158</p> <p>161-162</p> <p>142-160</p>
<ul style="list-style-type: none"> • Functions of the skeletal system <ul style="list-style-type: none"> ○ Structure and support ○ Muscle attachment and movement ○ Mineral storage ○ Hematopoiesis ○ Ossification 	<p>132-137</p> <p>132-133</p> <p>163, 201-203</p> <p>133</p> <p>133</p> <p>137-138</p>
<p>1.1.2b. Muscular</p> <ul style="list-style-type: none"> • Structures of the muscular system <ul style="list-style-type: none"> ○ Identify types of muscle tissue ○ Identify major muscle groups of neck, shoulder, chest, abdomen, back, arms, and legs • Functions of the muscular system <ul style="list-style-type: none"> ○ Body movement ○ Posture ○ Protection 	<p>184-229</p> <p>186-191, 201-211</p> <p>186-188</p> <p>203-211</p> <p>186, 188-190</p> <p>186, 189-190</p> <p>186, 190</p> <p>186, 204, 214</p>
<p>1.1.2c. Integumentary</p> <ul style="list-style-type: none"> • Structures of the integumentary system <ul style="list-style-type: none"> ○ Identify integumentary components ○ Label the layers of skin • Functions of the integumentary system 	<p>96-129</p> <p>101-105</p> <p>101-105</p> <p>103, 104</p> <p>101-102</p>

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Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> ○ Vitamin D production ○ Sensory organ ○ Infection protection ○ Temperature regulation ○ UV light protection 	<p>102 102 102 101 102</p>
<p>1.1.2d. Cardiovascular</p> <ul style="list-style-type: none"> ● Structures of the cardiovascular system <ul style="list-style-type: none"> ○ Identify cardiovascular organs ○ Label the parts of the heart ○ Distinguish blood components ● Functions of the cardiovascular system <ul style="list-style-type: none"> ○ Blood flow through the heart and body ○ Transports nutrients, waste, antibodies, hormones, and gases ○ Cardiac conduction system 	<p>394-481 432-435, 446-455 432 432-435 397-407 432 435-436, 446-455 432 442, 443-444</p>
<p>1.1.2e. Lymphatic/Immune</p> <ul style="list-style-type: none"> ● Structures of the lymphatic system <ul style="list-style-type: none"> ○ Identify lymphatic organs ● Functions of the lymphatic system <ul style="list-style-type: none"> ○ Provide protection against disease ○ Movement of lymph fluid 	<p>482-527 484-493 490-491 484-502 494-511 484-488</p>
<p>1.1.2f. Respiratory</p> <ul style="list-style-type: none"> ● Structures of the respiratory system <ul style="list-style-type: none"> ○ Identify respiratory organs ● Functions of the respiratory system <ul style="list-style-type: none"> ○ Gas exchange 	<p>356-393 358-365 358-365 366-374 366-370</p>
<p>1.1.2g. Nervous</p> <ul style="list-style-type: none"> ● Structures of the nervous system <ul style="list-style-type: none"> ○ Identify organs of the nervous system ○ Identify structures of the special sense organs ○ Differentiate CNS and PNS ○ Differentiate sympathetic and parasympathetic ● Functions of the nervous system <ul style="list-style-type: none"> ○ Sensation ○ Movement ○ Processing 	<p>230-279 232-237 232-237 256-258, 282-285, 293-295, 302-304, 306 232-233, 245-261 260 232, 238-244 232 232 232</p>
<p>1.1.2h. Endocrine</p> <ul style="list-style-type: none"> ● Structures of the endocrine system <ul style="list-style-type: none"> ○ Identify endocrine glands ● Functions of the endocrine system <ul style="list-style-type: none"> ○ Production of hormones ○ Regulation of body processes ○ Controls metabolism ○ Regulates growth, development, and maturation 	<p>316-355 318-319, 325-337 318-319, 325-337 316-324 320-322, 325-336 318, 322-323, 325-336 325, 329-331 317, 319, 321, 326-328, 330, 335</p>
<p>1.1.2i. Digestive</p> <ul style="list-style-type: none"> ● Structures of the digestive system <ul style="list-style-type: none"> ○ Identify digestive organs in sequence ○ Differentiate between alimentary and accessory organs ● Functions of the digestive system <ul style="list-style-type: none"> ○ Chemical and mechanical digestion ○ Absorption of nutrients ○ Excretion of waste 	<p>528-571 539-556 541-555 537 537-539 538, 541-553 538, 549, 553-554 538, 554-555</p>
<p>1.1.2j. Urinary</p>	<p>572-609</p>

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Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> • Structures of the urinary system <ul style="list-style-type: none"> ○ Identify urinary organs ○ Identify gross and microscopic anatomy of the kidney • Functions of the urinary system <ul style="list-style-type: none"> ○ Process of urine formation ○ Urine composition ○ Homeostatic balance 	573, 574-578, 588-591 573 574-578 580-591 580-588 594 587
1.1.2k. Reproductive <ul style="list-style-type: none"> • Structures of the reproductive system <ul style="list-style-type: none"> ○ Identify female reproductive organs ○ Identify male reproductive organs • Functions of the reproductive system <ul style="list-style-type: none"> ○ Formation of gametes ○ Production of hormones 	610-658 618-620, 623-627 623-627 618-620 621, 627-631 619-620, 623 615-616, 623, 627, 628-631, 639
1.2 Diseases and Disorders	
1.2.1: Describe etiology, pathology, diagnosis, treatment, and prevention of common diseases and disorders, including, but not limited to the following: <ul style="list-style-type: none"> • Anxiety • Arthritis • Asthma • Bipolar disorder • Cancer • Cataracts • Concussion/Traumatic Brain Injury (TBI) • Cystic Fibrosis • Depression • Diabetes mellitus • Dementia • Gastric ulcer • Hepatitis • Hypertension • Melanoma • Muscular Dystrophy • Myocardial Infarction • Sexually Transmitted Infection (STI) • Stroke/Cerebrovascular Accident (CVA) • Tuberculosis • Urinary Tract Infection (UTI) 	[The last lesson in Chapters 3 through 15 contains detailed tables that address each of these aspects of diseases and disorders.] 269, 308, 340 171, 173 379, 381-382 71, 73-74, 114-115, 120-121, 170, 383-384, 420-422, 512-514, 515, 563-564, 595, 647-650 290 262-265 384 199, 268, 269, 342, 379, 472 344-346, 413, 516-517, 593, 595, 596-598 269 558, 559 551, 561-562 459, 462, 470, 471 120-121, 122 218-219 468, 470-471 115, 644-646 250, 470, 472 378 601-602
1.2.2: Describe biomedical therapies as they relate to the prevention, pathology, and treatment of disease. <ul style="list-style-type: none"> • Gene editing • Gene testing • Gene therapy • Immunotherapy • Immunizations • Stem cell research 	81 81 384, 558 57, 384 384, 419, 513, 516 69 648
1.3 Medical Mathematics	
1.3.1: Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare.	9-10, 660-661

Standards / Objectives / Indicators	Textbook Pages
1.3.1a. Metric System <ul style="list-style-type: none"> • Kilo- • Centi- • Deci- • Milli- • Micro- 	9-10, 659 10, 659 10, 659 400 56, 400
1.3.1b. Mathematical <ul style="list-style-type: none"> • Average • Ratios • Fractions • Percentages • Addition/Subtraction • Multiplication/Division 	374, 393, 483, 660 660 661 661 10, 456, 457, 481, 581, 659, 661
1.3.1c. Conversions <ul style="list-style-type: none"> • Height (inches/meters) • Weight/mass (pounds/grams) • Length (inches/meters) • Volume (ml/cc) • Temperature (F/C) • Household measurements (Tbsp/tsp/cup/oz) 	659 659 659 659 659 659
1.3.2: 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
1.3.3: Demonstrate use of the 24-hour clock/military time.	609, 640
Foundational Standard 2: Communications: Demonstrate methods of delivering and obtaining information, while communicating effectively.	
2.1 Concepts of Effective Communication	
2.1.1: Model verbal and nonverbal therapeutic communication. <ul style="list-style-type: none"> • Active listening • Silence • Summarizing • Reflecting 	39 For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
2.1.2: Identify common barriers to communication.	39
2.1.2a: Physical disabilities <ul style="list-style-type: none"> • Aphasia • Hearing loss • Impaired vision • Developmental level 	218, 265, 341, 472 263, 265, 267, 269, 470, 472 295, 297-298, 300, 314 286-291 265, 591
2.1.2b: Psychological barriers <ul style="list-style-type: none"> • Attitudes • Bias • Prejudice • Stereotyping 	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
2.1.2c: Language barriers	269
2.1.3: Distinguish between subjective and objective information.	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing</i>

Standards / Objectives / Indicators	Textbook Pages
	Assistant: Essentials of Holistic Care, Brief Edition.
2.1.4: Interpret elements of the communication process using sender-message-receiver feedback model.	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.
2.1.5: Modify communication to meet the needs of the patient/client and to be appropriate to the situation.	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.
2.1.6: Describe appropriate interactions with patients throughout various stages of psychosocial development.	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.
2.2 Medical Terminology	
2.2.1: Use common roots, prefixes, and suffixes to communicate information	2, 5, 48, 49, 55, 83, 85, 102, 161, 214, 289, 328, 485, 488, 492, 498, 543, 551, 578, 582, 596, 626
2.2.2: Interpret common medical abbreviations to communicate information.	279, 390, 480, 666
2.3 Written Communication Skills	
2.3.1: Use proper elements of written and electronic communication (spelling, grammar, and formatting).	527, 571, 572, 632, 646
2.3.2: Prepare examples of technical and informative writing.	45, 129, 279, 315, 392, 429, 571
2.3.3: Demonstrate appropriate use of digital communication in a work environment, such as email, text, and social media.	36, 39, 461
Foundation Standard 3: Systems: Identify how key systems affect services performed and quality of care.	
3.1 Healthcare Delivery Systems	
3.1.1: Differentiate healthcare delivery systems and healthcare related agencies.	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.
3.1.1a: Types of practice settings <ul style="list-style-type: none"> • Acute care • Ambulatory care • Behavioral and mental health services • Home care • Long-term care • Medical and dental practices 	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.
3.1.1b: Specialty medical and dental practices <ul style="list-style-type: none"> • Cosmetic surgery • Pulmonology • Surgical • Orthodontics 	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.

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Standards / Objectives / Indicators	Textbook Pages
	Assistant: Essentials of Holistic Care, Brief Edition.
3.1.1c: Government agencies <ul style="list-style-type: none"> • Centers for Disease Control and Prevention (CDC) • Centers for Medicare & Medicaid Services (CMS) • National Institutes of Health (NIH) • Occupational Safety and Health Administration (OSHA) • U.S. Department of Veterans Affairs (VA) • U.S. Food and Drug Administration (FDA) • U.S. Public Health Service (USPHS) 	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.
3.1.1d: Related organizations <ul style="list-style-type: none"> • American Cancer Society (ACS) • American Heart Association (AHA) • American Red Cross (ARC) • March of Dimes • World Health Organization (WHO) 	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.
3.1.2: Examine the healthcare consumer’s rights and responsibilities within the healthcare system. <ul style="list-style-type: none"> • Self-advocacy • Compliance • Patient’s Bill of Rights 	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.
3.1.3: Analyze the impact of emerging issues on healthcare delivery systems. <ul style="list-style-type: none"> • Behavior/Mental health (replaces “addictions”) • Bioethics • Epidemiology • Socioeconomics • Technology 	230, 341 30, 57, 520, 579, 599, 645 482 35, 37, 57, 81, 250, 279, 461, 599, 648, 650
3.1.4: Analyze healthcare economics and related terms	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.
3.1.4a: The history and role of health insurance and employer/employee benefits	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.
3.1.4b: Fundamental terms related to health insurance. <ul style="list-style-type: none"> • Claim • Coinsurance • Co-payment • Explanation of Benefits (EOB) • Fraud • HIPAA • Medical Coding • Premium 	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.
3.1.4c: Types of insurance plans <ul style="list-style-type: none"> • Private health insurance plans • Managed care 	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: The Nursing Assistant:

Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> ○ Health Maintenance Organization (HMO) ○ Independent Practice Association (IPA) ○ Preferred Provider Organization (PPO) ● Government programs <ul style="list-style-type: none"> ○ Affordable Care Act (ACA) ○ Medicaid ○ Medicare ○ Tricare ○ Workers' Compensation 	Essentials of Holistic Care and The Nursing Assistant: Essentials of Holistic Care, Brief Edition.
<p>Foundation Standard 4: Employability Skills: Use employability skills to enhance employment opportunities and job satisfaction.</p>	
<p>4.1: Personal Traits of the Health Professional</p>	
<p>4.1.1: Identify personal traits and attitudes desirable in a career ready member of a health team.</p> <ul style="list-style-type: none"> ● Acceptance of criticism ● Competence ● Dependability ● Discretion ● Empathy ● Enthusiasm ● Honesty ● Initiative ● Integrity ● Patience ● Positive attitude ● Responsibility ● Self-motivation ● Social and cultural competence ● Tact ● Team player ● Willingness to learn 	<p>Note: For more 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.</p> <p>39, 521</p> <p>39</p> <p>38</p> <p>39</p> <p>38, 394</p> <p>520</p> <p>316</p> <p>39, 88, 392</p> <p>38</p>
<p>4.1.2: Summarize professional standards as they apply to hygiene, dress, language, confidentiality, and behavior.</p>	<p>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.</p>
<p>4.2: Employability Skills</p>	
<p>4.2.1: Apply employability/soft skills in healthcare.</p> <ul style="list-style-type: none"> ● Chain of command ● Communication Skills ● Customer service ● Decision making ● Emotional Intelligence 	<p>Note: For more 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.</p> <p>39</p> <p>38</p>

Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> • Flexible • Organization • Problem Solving • Scope of practice • Time Management • Work Ethic 	<p>38</p> <p>39</p> <p>39</p> <p>39</p>
4.3: Career Decision-making	
4.3.1: Research levels of education, credentialing requirements, and employment trends in health professions.	38-39, 89, 125, 177, 223, 273, 311, 349, 387, 425, 475, 521, 567, 605, 653
4.3.2: Distinguish differences among careers within a health science pathway. <ul style="list-style-type: none"> • Biotechnology research and development • Diagnostic services • Health informatics • Support services • Therapeutic services 	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science</i> and <i>Health Science: Concepts and Applications</i> .
4.4: Employability Preparation	
4.4.1: Develop components of a personal portfolio. <ul style="list-style-type: none"> • Community Service/Service Learning • Credentials • Leadership Examples • Mock Interview • Personal Statement (replaces letter of introduction) • Professional/student organization memberships • Oral Report • Resume • Sample Projects • Technology Skills • Work-based Learning Documentation • Writing Sample 	<p>3, 47, 97, 131, 185, 231, 281, 317, 357, 395, 431, 483, 529, 573, 611</p> <p>37, 38</p> <p>39</p> <p>38-39</p> <p>25, 382, 599</p> <p>38</p> <p>3, 47, 97, 131, 185, 231, 281, 317, 357, 395, 431, 483, 529, 573, 611</p> <p>45, 95, 129, 183, 228, 279, 315, 355, 392, 429, 481, 527, 571, 609, 658</p>
4.4.2: Identify strategies for pursuing employment. <ul style="list-style-type: none"> • Employer websites • Internships • Personal networking • Social media 	38-39 Note: For additional content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science</i> and <i>Health Science: Concepts and Applications</i> .
Foundation Standard 5: Legal Responsibilities: Describe legal responsibilities, limitations, and implications on healthcare worker actions.	
5.1: Legal Responsibilities and Implications	
5.1.1: Analyze legal responsibilities and implications of criminal and civil law. <ul style="list-style-type: none"> • Abuse • Assault • Battery • Harassment • Invasion of privacy • Libel • Malpractice 	For content related to this standard, see Goodheart-Willcox’s law and ethics program: <i>Medical Law & Professional Ethics</i> .

Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> • Negligence • Slander • Tort 	
5.2: Legal Practice	
5.2.1: Apply standards for the safety, privacy, and confidentiality of health information. <ul style="list-style-type: none"> • HIPAA • Privileged communication 	For content related to this standard, see Goodheart-Willcox’s law and ethics program: <i>Medical Law & Professional Ethics</i> .
5.2.2: Describe advance directives.	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Medical Law & Professional Ethics</i> ; <i>The Nursing Assistant: Essentials of Holistic Care</i> ; and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
5.2.3: Summarize the essential characteristics of a patient’s basic rights within a healthcare setting.	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Medical Law & Professional Ethics</i> ; <i>The Nursing Assistant: Essentials of Holistic Care</i> ; and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
5.2.4: Differentiate informed and implied consent.	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Medical Law & Professional Ethics</i> ; <i>The Nursing Assistant: Essentials of Holistic Care</i> ; and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
5.2.5: Describe the concept of scope of practice.	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Medical Law & Professional Ethics</i> ; <i>The Nursing Assistant: Essentials of Holistic Care</i> ; and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
5.2.6: Interpret procedures for reporting activities and behaviors that affect the health, safety, and welfare of others (incident report).	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
Foundation Standard 6: Ethics: Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment.	
6.1: Ethical Practice	
6.1.1: Differentiate between ethical and legal issues impacting healthcare.	For content related to this standard, see Goodheart-Willcox’s law and ethics program: <i>Medical Law & Professional Ethics</i> .

Standards / Objectives / Indicators	Textbook Pages
<p>6.1.2: Identify ethical issues and their implications related to healthcare.</p> <ul style="list-style-type: none"> • Ethics committee • Euthanasia • Gene editing • Immunizations • In vitro fertilization • Organ donation/transplantation • Scope of practice 	<p>Note: For additional content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p> <p>69</p> <p>81, 645</p> <p>579, 599</p>
<p>6.2: Cultural, Social, and Ethnic Diversity</p>	
<p>6.2.1: Discuss religious, social, and cultural values as they impact healthcare.</p> <ul style="list-style-type: none"> • Ageism • Ethnicity • Gender • Race • Religion 	<p>For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p>
<p>6.2.2: Demonstrate respectful and empathetic treatment of all patients/clients/families.</p> <ul style="list-style-type: none"> • Civility • Customer service • Patient satisfaction 	<p>For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p>
<p>Foundation Standard 7: Safety Practices: Identify existing and potential hazards to clients, co-workers, and self. Employ safe work practices and follow health and safety policies and procedures to prevent injury and illness.</p>	
<p>7.1: Infection Control</p>	
<p>7.1.1: Explain principles of infection transmission.</p>	<p>113, 377, 429, 495, 517, 560</p>
<p>7.1.1a: Identify classifications of pathogens</p> <ul style="list-style-type: none"> • Bacteria • Fungi • Parasites • Protozoa • Viruses 	<p>116-117, 560</p> <p>115-117</p> <p>378, 403, 495, 560</p> <p>112-114, 560</p>
<p>7.1.1b: Describe characteristics of microorganisms</p> <ul style="list-style-type: none"> • Aerobic • Anaerobic • Non-pathogenic • Pathogenic 	<p>For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p>
<p>7.1.1c: Recognize chain of infection</p>	<p>495</p>
<p>7.1.1d: Describe mode of transmission</p> <ul style="list-style-type: none"> • Common vehicle (air, food, water) • Direct • Healthcare-associated infections (nosocomial) • Indirect 	<p>For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p>

Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> • Opportunistic • Vectors 	Assistant: Essentials of Holistic Care, Brief Edition.
7.1.2: Differentiate methods of controlling the spread and growth of pathogens.	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.
7.1.2a: Asepsis <ul style="list-style-type: none"> • Sanitization • Antisepsis • Disinfection • Sterile technique • Sterilization 	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.
7.1.2b: Standard precautions <ul style="list-style-type: none"> • Handwashing • Gloving • Personal Protective Equipment (PPE) • Environmental cleaning 	495 113, 527 30, 495, 561 30, 495 30
7.1.2c: Isolation precautions <ul style="list-style-type: none"> • Transmission-based contact 	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.
7.1.2d: Bloodborne pathogen precautions	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.
7.1.2e: Vaccinations	34, 116, 267, 467, 491, 508, 513, 527, 564
7.2: Personal Safety	
7.2.1: Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations.	30
7.2.2: Demonstrate principles of body mechanics during patient care. <ul style="list-style-type: none"> • Ambulating • Lifting • Positioning 	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.
7.2.3: Demonstrate and apply the use of personal protective equipment (PPE).	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.
7.3: Environmental Safety	
7.3.1: Apply safety techniques in the work environment. <ol style="list-style-type: none"> a. Ergonomics 	For content related to this standard, see Goodheart-Willcox’s nursing assistant

Standards / Objectives / Indicators	Textbook Pages
b. Patient/client/employee safety measures c. c. Safe operation of equipment	programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
7.4: Common Safety Hazards	
7.4.1: Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]).	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
7.4.2: Comply with safety signs, symbols, and labels.	39
7.5: Emergency Procedures and Protocols	
7.5.1: Practice fire safety in a healthcare setting.	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
7.5.2: Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols).	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
Foundation Standard 8: Teamwork: Identify roles and responsibilities of individual members as part of the healthcare team..	
8.1: Healthcare Teams	
8.1.1: Evaluate roles and responsibilities of healthcare team members.	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
8.1.2: Identify characteristics of effective teams. <ul style="list-style-type: none"> • Collaboration • Defined roles • Effective communication • Effective leadership • Measurable processes and outcomes • Mutual respect • Shared goals 	125, 228, 349 39, 200 39 27-30 39
8.2: Team Member Participation	
8.2.1: Recognize methods for building positive team relationships.	39
8.2.2: Analyze attributes and attitudes of an effective leader.	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science and Health Science: Concepts and Applications</i> .
8.2.2a: Characteristics <ul style="list-style-type: none"> • Focused and driven • Interpersonal skills • Motivates and inspires 	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science</i>

Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> Organized and balanced 	and <i>Health Science: Concepts and Applications</i> .
8.2.2b: Types <ul style="list-style-type: none"> Autocratic Democratic Laissez faire 	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science</i> and <i>Health Science: Concepts and Applications</i> .
8.2.2c: Roles <ul style="list-style-type: none"> Communicates vision Leads change Manages accountability 	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science</i> and <i>Health Science: Concepts and Applications</i> .
8.2.3: Apply effective techniques for managing team conflict. <ul style="list-style-type: none"> Communicate assertively Gather the facts Mediate disputes Negotiate resolutions Set clear expectations 	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science</i> and <i>Health Science: Concepts and Applications</i> .
8.2.4: Evaluate why teamwork is an important part of healthcare and how it improves patient care.	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science</i> and <i>Health Science: Concepts and Applications</i> .
<p>Foundation Standard 9: Health Maintenance Practices: Differentiate between wellness and disease. Promote disease prevention and model healthy behaviors.</p>	
<p>9.1: Healthy Behaviors</p>	
9.1.1: Promote self-care behaviors of health and wellness. <ul style="list-style-type: none"> Exercise Nutrition Relationships Sleep habits Stress management Weight control 	Note: For additional content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science</i> and <i>Health Science: Concepts and Applications</i> . 530-536 459-460
9.1.2: Examine various aspects of behavioral health. <ul style="list-style-type: none"> Anxiety Depression Substance abuse Suicide 	For content related to this standard, see Goodheart-Willcox’s health science programs: <i>Introduction to Health Science</i> and <i>Health Science: Concepts and Applications</i> .
9.1.3: Describe public health strategies for prevention of disease. <ul style="list-style-type: none"> Community health education outreach programs Immunizations Medical, dental, and mental health screenings Routine physical exams Self-care behaviors (replaces “Stress management”) 	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
9.1.4: Investigate complementary and alternative health practices as they relate to wellness and disease prevention. <ul style="list-style-type: none"> Eastern medicine Holistic medicine 	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing</i>

Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> • Homeopathic medicine • Manipulative medicine 	Assistant: Essentials of Holistic Care, Brief Edition.
9.2: Healthcare Across the Lifespan	
9.2.1: Discuss physical, mental, social, and behavioral development and its impact on healthcare.	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
9.2.2: Identify socioeconomic determinants of health and wellness.	For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i> .
<p>Foundation Standard 10: Technical Skills*: Apply and demonstrate technical skills and knowledge common to health career specialties.</p> <p>*Additional technical skills may be included in a program of study based on career specialties.</p>	
10.1: Technical Skills	
<p>10.1.1: Demonstrate procedures for measuring and recording vital signs in both normal and abnormal ranges – including but not limited to:</p> <ul style="list-style-type: none"> • Blood pressure • Height and weight • Oxygen saturation • Pain • Pulse • Respirations • Temperature 	<p>457-460, 463-464</p> <p>458-459</p> <p>459-460</p> <p>456</p> <p>457</p> <p>457</p> <p>Note: For additional content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p>
<p>10.1.2: Obtain training or certification in:</p> <ul style="list-style-type: none"> • Automated external defibrillator (AED) • Cardiopulmonary resuscitation (CPR) • First aid • Foreign body airway obstruction (FBAO) 	<p>Note: For additional content related to this standard, refer to the digital resources that accompany this textbook. Also see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p> <p>464</p> <p>464</p>
<p>Foundation Standard 11: Information Technology in Healthcare: Apply information technology practices common across health professions.</p>	
11.1: Key Principles, Components and Practices of Health Information Systems	
11.1.1: Identify components of an electronic health record (EHR) and/or electronic medical record (EMR).	36, 461

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Standards / Objectives / Indicators	Textbook Pages
<ul style="list-style-type: none"> • Diagnostic tests • History and physical • Medications • Patient demographics • Progress notes • Treatment Plan 	<p>Note: For additional content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p>
<p>11.1.2: Explore different types of health data collection tools.</p> <ul style="list-style-type: none"> • Medical wearable devices • Patient monitoring equipment • Phone apps (replaces applications) 	<p>36, 81 36, 596 36</p>
<p>11.1.3: Create electronic documentation that reflects timeliness, completeness, and accuracy.</p>	<p>For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p>
<p>11.1.4: Examine information systems policies, procedures, and regulations as required by national, state, and local entities.</p> <ul style="list-style-type: none"> • Facility policies • HIPAA • Medical coding • Social media 	<p>For content related to this standard, see Goodheart-Willcox’s nursing assistant programs: <i>The Nursing Assistant: Essentials of Holistic Care</i> and <i>The Nursing Assistant: Essentials of Holistic Care, Brief Edition</i>.</p>